RECEIVED

By JKeyes at 9:22 am, Mar 23, 2016





Hale State Battery

REMEDIATION WORK PLAN

API No. 30-025-02154 (Closest Well)

Release Date: June 25, 2015

Unit Letter E, Section 31, Township 17 South, Range 34 East

December 21, 2015

Prepared by:

Lance Crenshaw, Project Manager Environmental Department Diversified Field Service, Inc. 206 W. Snyder Hobbs, NM 88240 Phone: (575)964-8394

Fax: (575)393-8396

LINN ENERGY 12/21/2015

Kellie Jones Environmental Specialist NM Oil Conservation District-Division 2 1625 N. French Hobbs, NM 88240

RE: Linn Energy, Hale State Battery – Remediation Work Plan UL/E, Section 31, T17S, R34E API No. 30-025-02154

Ms. Jones.

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

The site is located southeast of Maljamar, NM, in Eddy County. The leak site resulted from the heater losing all pressure, causing it to fill up with liquid, which came up through the gas line into separator, and popped off the ground. The impacted area was contained between the tanks and the heater, with some residual spray into the pasture. Approximately 50 bbls of oil was released, with 40 bbls recovered. A site map is attached. A C-141 was drafted on June 26, 2015, and is attached.

Site Assessment and Delineation

On June 30, 2015 DFSI personnel responded to the spill area and scraped up visible staining on the ground. On November 20, 2015, DFSI personnel returned to the location to begin sampling. Four points were sampled, and one bore hole was drilled. The samples were tested for chloride levels as well as BTEX. The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). The field samples that field tested below state/BLM requirements were taken to Cardinal Lab of Hobbs to obtain confirmation sample. The results are attached.

DFSI has conducted a groundwater study of the area and has determined that according to the New Mexico Office of the State Engineer the average depth to groundwater for this area is 137 foot below ground surface. Therefore, no eminent danger of groundwater impact or threat to life is anticipated.

LINN ENERGY 12/21/2015

Conclusion

After careful review DFSI, on behalf of Linn Energy, would like to propose the following:

Scrape the spill area to 6" BGS except in the area of SP1 and SB1. The area of SP1 and SB1 will be excavated to 4' BGS. The entire excavated area will be backfilled with fresh caliche.

Following the approval of the above plan, DFSI will submit all proper closure documentation to the NMOCD and BLM in accordance to the State and Federal Guidelines set forth.

Please feel free to contact me with any questions concerning this remediation plan request.

Sincerely,

Michael Burton

Environmental Operations Director

Diversified Field Service, Inc.

Michael Burton

206 West Snyder

Hobbs, NM 88240 Office: (575)964-8394

Mobile: (575)390-5454 Fax: (575)964-8396

Email: Mburton@diversifiedfsi.com

cc Shelly Tucker

Attachments: Initial Form C-141

Site/Sample Map Sample Data

Lab Analytical Data

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II District III
1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Form C-141

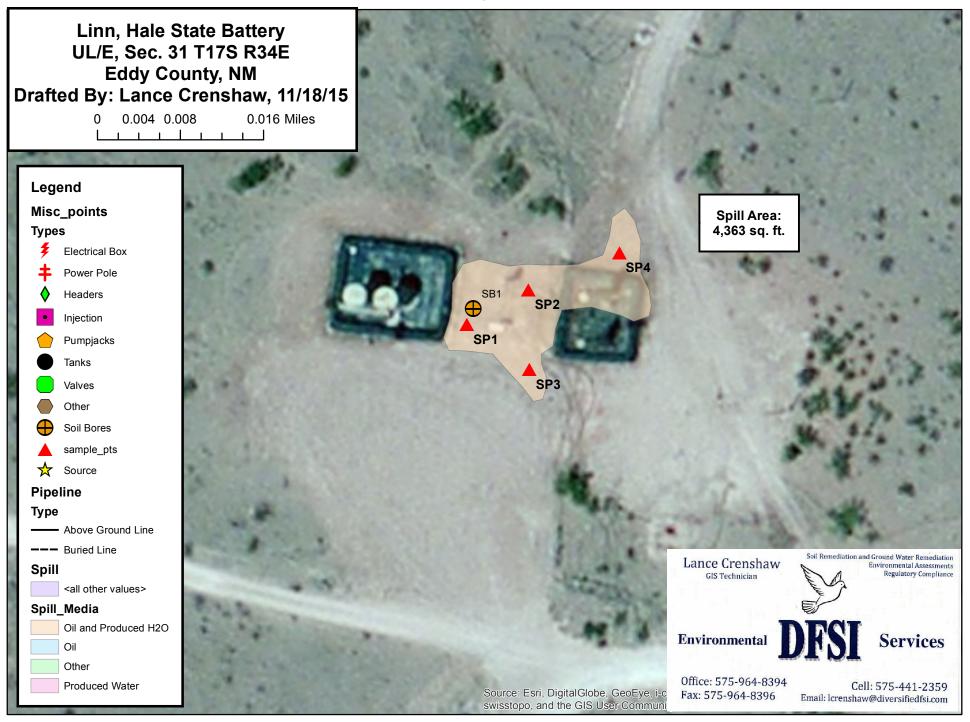
Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Release Notification and Corrective Action														
					(OPERAT	OR	\triangleright	Initial	Report	□ F	Final Report		
Name of Co		Linn Operati					E.L. Gonzales							
		nder Blvd H					No. 575-738-17	739						
Facility Nar	ne Hale	State Battery	y- (closes	t well Hale State	;	Facility Typ	e Battery							
Surface Ow	ner State			Mineral O	wner				API No	. closest v	vell 30-0	025-02154		
				LOCAT	ΓΙΟΝ	OF REL	EASE							
Unit Letter E	Section 31	Township 17S	Range 34E	Feet from the 990		South Line North	Feet from the 660	l l	est Line est	County	Eddy	7		
			Latit	ude 32.7957953 NATI		Longitude ·		1618						
Type of Relea	ase Oil			11111			Release 50 bbls		Volume R	Recovered	40 bbls			
Source of Rel		rator					lour of Occurrence	e	Date and	Hour of Di 5 9:00am	scovery			
Was Immedia	ate Notice (_	Yes [] No □ Not Re	quired	If YES, To	Whom?	<u> </u>						
By Whom?						Date and H	lour							
Was a Watero	course Read	ched?	Yes 🗵] No		Date and Hour If YES, Volume Impacting the Watercourse.								
If a Watercou	rea was Im	nested Deser	ibo Eully	*										
				n Taken.* Heater on the ground and		all pressure filled it up with liquid came up through the gas line into separator and vered about 40. The ground 60ft. Wide, 50 ft. long and about 50 ft. spray into the pasture about 15 ft.								
Describe Are wide. Mess co					on the g	round 60ft. W	Vide, 50 ft. long a	nd about	50 ft. spra	y into the p	oasture a	bout 15 ft.		
regulations al public health should their cor the environ	I operators or the envi operations h nment. In a	are required tronment. The lave failed to a	o report and acceptant adequately OCD accept	e is true and complete is true and complete of a C-141 report investigate and restance of a C-141 report ance of a C-141 report investigate and restance of a C-141 report in the content of a C-141 r	elease nort by the emediate	otifications and e NMOCD m e contaminati	nd perform correct arked as "Final R on that pose a thr	ctive action eport" do reat to gro	ons for rele oes not reli ound water	eases which eve the ope , surface w	n may en erator of eater, hur	danger liability nan health		
Signature:	8	0/					OIL CON	SERV.	<u>ATION</u>	DIVISIO	<u>NC</u>			
Printed Name	e: E.L. Go	nzales				Approved by	Environmental S	pecialist:						
Title: Produ	ction Super	visor	_			Approval Dat	e:	Е	expiration 1	Date:				
E-mail Addre	ess: elgonz	ales@linnener	rgy.com			Conditions of	Approval:			Attached	i 🗌			
Date: 06/2	26/2015		Phone: 5	05-504-8002										

^{*} Attach Additional Sheets If Necessary

Site Diagram





Hale State Battery

PHOTO PAGE

12/21/2015



Initial spill photo



Sampling spill area vertically



Using drill for bore hole

Company Name:LinnSP Date:11/20/2015Location Name:Hale State BatteryRel Date:

SP1	CHL	PID	SP2	CHL	PID	SP3	CHL	PID	SP4	CHL	PID	SB1	CHL	PID
Surface	146		Surface	117	1.9	Surface	503		Surface	926	1	1'	84	
1'	169		1'	90		1'	220		1'	341		2'	120	
												3'	88	
			Surface	48		Surface	464		Surface	1090		4'	86	
			1'	64		1'	288		1'	320		5'	209	
												6'	203	
											i			
											i	6'	192	<10
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Lab Confirmation Sample
Field Sampling
Needs Delineation and confirmation samples



November 30, 2015

JOE HERNANDEZ LINN OPERATING-HOBBS 2130 W. BENDER HOBBS, NM 88240

RE: HALE STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 11/20/15 16:40.

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.

Celey D. Keine

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



LINN OPERATING-HOBBS JOE HERNANDEZ 2130 W. BENDER HOBBS NM, 88240

Fax To: (575) 738-1740

Received: 11/20/2015 Sampling Date: 11/20/2015

Reported: 11/30/2015 Sampling Type: Soil

Project Name: HALE STATE BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LINN

Sample ID: SAMPLE POINT 2 @ SURFACE (H503084-01)

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	11/25/2015	ND	2.02	101	2.00	0.897	
Toluene*	<0.050	0.050	11/25/2015	ND	2.00	99.9	2.00	1.29	
Ethylbenzene*	<0.050 0.050 <0.150 0.150		11/25/2015	ND	2.07	104	2.00	0.196	
Total Xylenes*			11/25/2015	ND	6.10	102	6.00	0.168	
Total BTEX	<0.300	0.300	11/25/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 % 73.6-140		0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	mg/kg Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	11/25/2015	ND	400	100	400	14.8	
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	11/23/2015	ND	189	94.6	200	3.05	
DRO >C10-C28	<10.0	10.0	11/23/2015	ND	183	91.7	200	2.06	
Surrogate: 1-Chlorooctane	94.9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	105 9	6 28-171							

Cardinal Laboratories *=Accredited Analyte

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LINN OPERATING-HOBBS JOE HERNANDEZ 2130 W. BENDER HOBBS NM, 88240

Fax To: (575) 738-1740

Received: 11/20/2015 Sampling Date: 11/20/2015

Reported: 11/30/2015 Sampling Type: Soil

Project Name: HALE STATE BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LINN

Sample ID: SAMPLE POINT 2 @ 1' (H503084-02)

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	11/25/2015	ND	2.02	101	2.00	0.897	
Toluene*	< 0.050	0.050	11/25/2015	ND	2.00	99.9	2.00	1.29	
Ethylbenzene*	< 0.050	0.050	11/25/2015	ND	2.07	104	2.00	0.196	
Total Xylenes*	<0.150	0.150	11/25/2015	ND	6.10	102	6.00	0.168	
Total BTEX	<0.300	0.300	11/25/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	11/25/2015	ND	400	100	400	14.8	Comme
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	11/23/2015	ND	189	94.6	200	3.05	
DRO >C10-C28	13.4	10.0	11/23/2015	ND	183	91.7	200	2.06	
Surrogate: 1-Chlorooctane	102 %	% 35-147	,						

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Celey D. Keine

Surrogate: 1-Chlorooctadecane

114 %

28-171



LINN OPERATING-HOBBS JOE HERNANDEZ 2130 W. BENDER HOBBS NM, 88240

Fax To: (575) 738-1740

Received: 11/20/2015 Sampling Date: 11/20/2015

Reported: 11/30/2015 Sampling Type: Soil

Project Name: HALE STATE BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LINN

Sample ID: SAMPLE POINT 3 @ SURFACE (H503084-03)

111 %

28-171

BTEX 8021B	mg/	kg	Analyze						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/25/2015	ND	2.02	101	2.00	0.897	
Toluene*	< 0.050	0.050	11/25/2015	ND	2.00	99.9	2.00	1.29	
Ethylbenzene*	<0.050 0.050		11/25/2015	ND	2.07	104	2.00	0.196	
Total Xylenes*	< 0.150	0.150	11/25/2015	ND	6.10	102	6.00	0.168	
Total BTEX	<0.300	0.300	11/25/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	e (PID 101 % 73.6-140		0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	11/25/2015	ND	400	100	400	14.8	
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	11/23/2015	ND	189	94.6	200	3.05	
DRO >C10-C28	13.8	10.0	11/23/2015	ND	183	91.7	200	2.06	
Surrogate: 1-Chlorooctane	101 %	% 35-147	,						

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Celey D. Keine

Surrogate: 1-Chlorooctadecane



LINN OPERATING-HOBBS JOE HERNANDEZ 2130 W. BENDER HOBBS NM, 88240

Fax To: (575) 738-1740

Received: 11/20/2015 Sampling Date: 11/20/2015

Reported: 11/30/2015 Sampling Type: Soil

Project Name: HALE STATE BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LINN

Sample ID: SAMPLE POINT 3 @ 1' (H503084-04)

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	11/25/2015	ND	2.02	101	2.00	0.897	
Toluene*	< 0.050	0.050	11/25/2015	ND	2.00	99.9	2.00	1.29	
Ethylbenzene*	< 0.050	0.050	11/25/2015	ND	2.07	104	2.00	0.196	
Total Xylenes*	<0.150	0.150	11/25/2015	ND	6.10	102	6.00	0.168	
Total BTEX	<0.300	0.300	11/25/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	103 % 73.6-140 mg/kg		0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	11/25/2015	ND	400	100	400	14.8	
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	11/23/2015	ND	189	94.6	200	3.05	
DRO >C10-C28	<10.0	10.0	11/23/2015	ND	183	91.7	200	2.06	
Surrogate: 1-Chlorooctane	102 %	6 35-147	,						
Surrogate: 1-Chlorooctadecane	110 %	6 28-171							

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LINN OPERATING-HOBBS JOE HERNANDEZ 2130 W. BENDER HOBBS NM, 88240

Fax To: (575) 738-1740

Received: 11/20/2015 Sampling Date: 11/20/2015

Reported: 11/30/2015 Sampling Type: Soil

Project Name: HALE STATE BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LINN

Sample ID: SAMPLE POINT 4 @ SURFACE (H503084-05)

116 %

28-171

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	11/25/2015	ND	2.11	106	2.00	3.99	
Toluene*	<0.050	0.050	11/25/2015	ND	2.11	105	2.00	4.90	
Ethylbenzene*	<0.050	0.050	11/25/2015	ND	2.22	111	2.00	4.05	
Total Xylenes*	<0.150	0.150	11/25/2015	ND	6.40	107	6.00	3.31	
Total BTEX	<0.300	0.300	11/25/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result Reporting Limit		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1090 16.0		11/25/2015	ND	400	100	400	14.8	Qualifici
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	,		11/24/2015	ND	198	98.8	200	2.97	
DRO >C10-C28			11/24/2015	ND	197	98.6	200	3.60	
Surrogate: 1-Chlorooctane	99.6	% 35-147	7						

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Celey D. Keine

Surrogate: 1-Chlorooctadecane



LINN OPERATING-HOBBS JOE HERNANDEZ 2130 W. BENDER HOBBS NM, 88240

Fax To: (575) 738-1740

Received: 11/20/2015 Sampling Date: 11/20/2015

Reported: 11/30/2015 Sampling Type: Soil

Project Name: HALE STATE BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LINN

Sample ID: SAMPLE POINT 4 @ 1' (H503084-06)

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	11/25/2015	ND	2.11	106	2.00	3.99	
Toluene*	< 0.050	0.050	11/25/2015	ND	2.11	105	2.00	4.90	
Ethylbenzene*	< 0.050	0.050	11/25/2015	ND	2.22	111	2.00	4.05	
Total Xylenes*	<0.150	0.150	11/25/2015	ND	6.40	107	6.00	3.31	
Total BTEX	<0.300	0.300	11/25/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	11/25/2015	ND	400	100	400	14.8	
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	11/24/2015	ND	198	98.8	200	2.97	
DRO >C10-C28	<10.0	10.0	11/24/2015	ND	197	98.6	200	3.60	
Surrogate: 1-Chlorooctane	88.5 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	96.3 9	% 28-171							

Cardinal Laboratories *=Accredited Analyte

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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

Cardinal Laboratories *=Accredited Analyte

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name	P.O. #:	1.70	ANALYSIS REQUEST
Address:	Company:		
State:	Zip: Attn:		
Phone #: Fax #:	Address:		
Project #: Project Owner:	City:		
ame: Liwy	State: 2	Zip:	
	Phone #:		
Man there	Fax#:		
Sampler Name: Wils Toxes	MATRIX PRESERV.	SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	DATE TIME Chloride BTEX	TOH
2 Sample Point 2 P Swifage		11/20/2015 11/30 AM X X X 11/25 AM X X X	
+ Sounder Point 3		< X	× ×
6 Sample Point 7 & Southard		CIST AMX X X	
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or lot, shall be limited to me amount paid by an experience analyses. All claims including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and reserved by cardinal within 30 days after competion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, 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, services interruptions, loss of use, or loss of profits incurred by client. Its additions that the profit is a subsidiaries of the profit of the profit in the prof	ny dalim siring whether based in contract or lort, shall be limited to the amount deemed waived unless made in writing and received by Cardinia whitin 30 days is without limitation, business interruptions, loss of use, or loss of profite incurred to profinal regardless of whether such claim is based upon any of the above stated profinal regardless of whether such claim is based upon any of the above stated profinal regardless.	on the amount paid by the density of the applicable within 30 days after completion of the applicable office incurred by client, its subsidiaries, above stated reasons or otherwise. • above stated reasons or otherwise.	□ No Add'l Phone #:
shed By:	Received By: James	Fax Result: REMARKS:	Crenshawed Nerstfredfsi.com
Relinquished By: Time:			modules a
Delivered By: (Circle One)	Sample Condition CHECK	CHECKED BY:	Wherson (&

Sampler - UPS - Bus - Other:



December 11, 2015

JOE HERNANDEZ LINN OPERATING-HOBBS 2130 W. BENDER HOBBS, NM 88240

RE: HALE STATE BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/07/15 16:25.

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)

Celey D. Keine

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



LINN OPERATING-HOBBS JOE HERNANDEZ 2130 W. BENDER HOBBS NM, 88240

Fax To: (575) 738-1740

Received: 12/07/2015 Sampling Date: 12/07/2015

Reported: 12/11/2015 Sampling Type: Soil

Project Name: HALE STATE BATTERY Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: LINN

Sample ID: SOIL BORE 1 @ 6' (H503187-01)

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	12/09/2015	ND	1.62	80.8	2.00	3.31	
Toluene*	< 0.050	0.050	12/09/2015	ND	1.61	80.6	2.00	3.71	
Ethylbenzene*	<0.150 0.150 12/0		12/09/2015	ND	1.65	82.6	2.00	3.94	
•		12/09/2015	ND	5.05	84.2	6.00	3.89		
Total BTEX	<0.300	0.300	12/09/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID			0						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	yte Result Reporting Limit Analyzed		Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	12/10/2015	ND	400	100	400	7.69	
hloride 192 PH 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	12/08/2015	ND	186	93.0	200	7.67	
DRO >C10-C28	<10.0	10.0	12/08/2015	ND	177	88.3	200	12.5	
Surrogate: 1-Chlorooctane	76.1 9	% 35-147	,						
Surrogate: 1-Chlorooctadecane	76.2 9	% 28-171							

Cardinal Laboratories *=Accredited Analyte

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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

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Linn	Linn		BILL TO	ANALYSIS REQUEST	
Project Manager:			P.O. #:		
Address:			Company:		
City:	State:	Zip:	Attn:		
Phone #:	Fax#:		Address:		
Project #:	Project Owner:	er:	City:		
Project Name: Linn	25		State: Zip:		
Project Location: Have	: Hate State Battery		Phone #:		
Sampler Name:	Chris Flores		Fax #:		***********
FOR LAB USE ONLY	- 1	MATRIX	PRESERV. SAMPLING		
Lab I.D. #503187	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER: DATE	C'hloride Teh Brex	
_	Soil Bore 10 6	-	V 12-7-2015 18	×	
LEASE NOTE: Liability and nalyses. All claims including envice. In no event shall Can	등 하 교	any claim arising whether based in contract deemed waived unless made in writing an without limitation, business interruptions,	at or lort, shall be limited to the amount paid by the client for ind received by Cardinal within 30 days after completion of to loss of use, or loss of profits incurred by client, its subsidiar	vithe the applicable aries,	
Relinguished By:	linguished By:	Cardinal, regardless of whether such claim	nce of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.		
	12-7-20/5	Necessed by .		isult: U Yes U No Add'l Phone #: It: U Yes U No Add'l Fax #:	
Relinquished By:		Received By:	email email	email to: Icrenshaw@diversifiedfsi.com	
		C	•	malues a	

Ž,

Ú

20

Sample Condition
Cool Intact
Yes Ves

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

Time:

malves

montherson (



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)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

	POD Sub-		QC	Q Q						Depth	Depth	Water
POD Number	Code basin	County	64 1	6 4	Sec	Tws	Rng	Х	Υ	Well	Water	Column
L 04734	L,	LE	3	3	31	17S	34E	630555	3628397* 🌍	186	135	51
L 11232	L	LE	2 3	4	31	17S	34E	631413	3628508* 🌍	235	140	95

Average Depth to Water: 137 feet

> Minimum Depth: 135 feet

Maximum Depth: 140 feet

Record Count: 2

PLSS Search:

Section(s): 31 Township: 17S Range: 34E