APPROVED By Olivia Yu at 11:20 am, Apr 02, 2018

NMOCD approves of the proposed delineation for 1RP-4258.

1RP-4258 DELINEATION PLAN LR Chamberlain Tank Battery Crude Oil & Produced Water Spill Lea County, New Mexico

Latitude: N33.022359° Longitude: W-103.170896°

LAI Project No. 17-0175-24

February 20, 2018

Prepared for: Legacy Reserves Operating, LP 303 West Wall Street, Suite 1300 Midland, Texas 79701

Prepared by: Larson & Associates, Inc. S07 North Marienfeld Street, Suite 205 Midland, Texas 79701

hson Geologist

Mark J. Larson, P.G. Certified Professional Geologist #10490 This Page Intentionally Left Blank

Table of Contents

1.0 INTRODUCTION	1
1.1 Background	1
1.2 Physical Setting	1
1.3 Remediation Action Levels	
2.0 DELINEATION PLAN	2
3.0 REMEDIATION PLAN	2

Figures

Figure 1	Topographic Map
Figure 2	Aerial Map Showing Proposed Sample Points

Appendices

Appendix A	Initial C-141
Appendix B	EPI Site Drawing and Analytical Drawing
Appendix C	Photographs

1RP-4258 Delineation Plan LR Chamberlain Tank Battery Crude Oil & Produced Water Spill February 20, 2018

1.0 INTRODUCTION

Larson & Associates, Inc. (LAI), has prepared this delineation plan on behalf of Legacy Reserves Operating, LP (Legacy) for submittal to the New Mexico Oil Conservation Division (OCD) District I for a crude oil and produced water spill at the LR Chamberlain Tank Battery (Site) located in Unit C (NE/4, NW/4), Section 14, Township 15 South, Range 37 East, in Lea County, New Mexico. The geodetic position is North 33.022359° and West -103.170896°. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

The spill occurred on February 15, 2016, due to the dump valve on the free water knockout malfunctioning and allowing for approximately 260 barrels (bbl) of crude oil and produced water to be released inside and outside the earthen containment. Approximately 250 bbl were recovered. The affected area measures about 10,400 square feet. The initial C-141 was submitted on April 22, 2016 and assigned remediation permit number 1RP-4258. Appendix A presents the initial C-141.

On May 23, 2016 Environmental Plus, Inc. (EPI), personnel collected soil samples near the northeast corner of the tank battery and outside the spill area (SP1). Samples were collected at depths of 3, 4, 6, 7, 8, 9, 10, 11 and 12 feet below ground surface (bgs). The soil samples were analyzed in the field for chloride and screened for organic vapors using a photoionization detector (PID). The highest PID reading was reported at 7 feet (762 ppm). The highest chloride reading was at 11 feet bgs (440 mg/Kg).

EPI delivered the soil sample from SP1, 12 feet bgs to Cardinal Labs, in Hobbs, New Mexico under preservation and chain of custody. The soil sample was analyzed for benzene, toluene, ethylbenzene and xylenes (BTEX), total petroleum hydrocarbons (TPH), including gasoline range organics (GRO) and diesel range organics (DRO) and chloride by EPA SW-846 Methods 8021B and 8015M, respectively, and chloride by titration method SM4500CL-B, respectively. The laboratory reported BTEX and TPH below the RRAL. Chloride was reports at 176 milligrams per kilogram (mg/Kg). Visually contaminated soil was scraped and disposed at an OCD approved landfill. Appendix B presents the EPI site drawing and analytical data.

1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,800 feet above mean sea level (msl);
- The surface topography gradually slopes towards the southeast and southwest;
- There are no surface water features within 1,000 feet of the Site;
- The soils are designated as "Stegall loam, 0 to 1 percent slopes", consisting of 0 to 8 inches of loam, underlain by 8 to 28 inches of clay loam;
- The surface geology is the Ogallala Formation (lower Pliocene to middle Miocene)- Alluvial and eolian deposits, and petrocalcic soils of the southern High Plains;
- A monitoring well located approximately 400 feet southeast (1RP-10-1-2351) reported groundwater in the Ogallala formation at approximately 64.73 feet bgs (12/3/2015);
- The nearest fresh water well is located in Unit G (SW/4, NE/4), Section 14, Township 15 South, Range #7 East, about 0.30 miles southeast of the Site.

1.3 Recommended Remediation Action Levels

The recommended Remediation Action Levels (RRAL) were calculated for benzene, BTEX and TPH based on the following criteria established by the OCD in *"Guidelines for Remediation of Leaks, Spills and Releases pp. 6-7, August 13, 1993"*:

Criteria	Result	Score
Depth-to-Groundwater	50 – 99 Feet	10
Wellhead Protection Area	No	0
Distance to Surface Water Body	>1,000 Horizontal Feet	0

The following RRAL apply to the release ranking score:

- Benzene 10 mg/Kg
- BTEX 50 mg/Kg
- TPH 1,000 mg/Kg

Depth to groundwater between 50 and 99 feet bgs requires vertical delineation of chloride to 600 milligrams per kilogram (mg/Kg) and maintained a minimum 5 feet farther in depth.

2.0 DELINEATION PLAN

LAI proposes to collect soil samples at six (6) locations within the contaminated area inside the secondary containment. The samples will be collected at 1 foot intervals to approximately 4 feet bgs and 2 foot intervals to approximately 12 feet bgs using direct push technology (DPT) depending on subsurface conditions. Additional samples will be collected in each cardinal direction (north, south, east and west) of the spill at the same depth intervals for horizontal delineation. The soil samples will be delivered under chain of custody and preservation to Xenco Laboratories (Xenco) in Midland, Texas, and analyzed for BTEX, total petroleum hydrocarbons (TPH), including gasoline range organics (GRO), diesel range organics (DRO) and oil range organics (ORO) and chloride by EPA SW-846 Method 8021B, 8015M and 300 respectively. Pending laboratory results, further delineation may be required to reach cleanup level standards. Figure 2 presents a site map showing proposed soil sample locations. Appendix C presents photographs.

3.0 REMEDIATION PLAN

Legacy will include a remediation plan in the delineation report to be submitted to the OCD upon receipt of the laboratory report.

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Figures

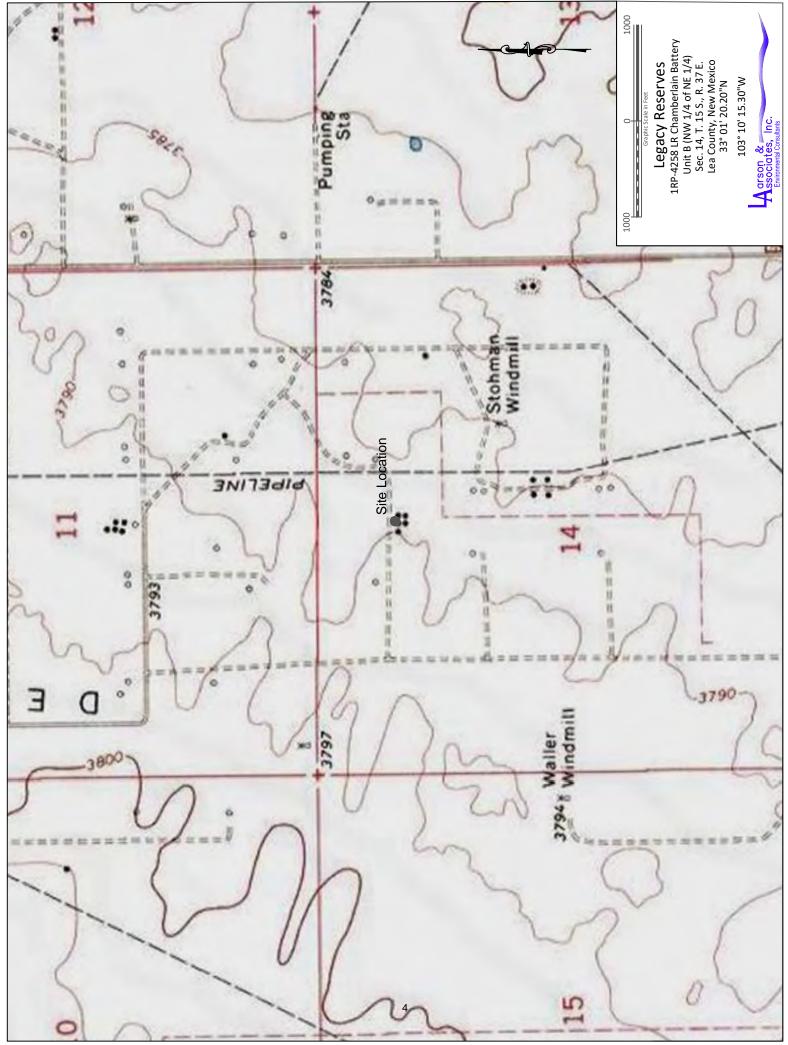


Figure 1 - Topographic Map



Figure 2 - Aerial Map

Appendix A

Initial C-141

RECEIVED By JKeyes at 8:33 am, Apr 25, 2016

District 1 1625 N. French Dr., Hobbs, NM 88240 District II 811 S. First St., Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mex Energy Minerals and Natural Resources

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

FOrm C-141 Revised August 8, 2011

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

Release Notification and Corrective Action

	OPERATOR	🛛 Init	tial Report	Final Report
Name of Company: Legacy, L.P.	Contact: Manuel Sor	iano		
Address: P.O. Box 10848, Midland, Texas 797	D2 Telephone No. 432-2	269-8806		
Facility Name: LR Chamberlain Battery	Facility Type: Batter	У		
Surface Owner: Darr Angell	Mineral Owner:		API No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	83 . 0	North/South Line	East/West Line	County
С	14	15S	37E				Lea

Latitude: <u>N 33.022359°</u> Longitude: <u>W 103.170896°</u>

NATURE OF RELEASE

Type of Release: oil and produced water	Volume of Release: ~260 bbls	Volume Re	covered: ~250 bbls
Source of Release: dump on free water knockout malfunction	Date and Hour of Occurrence:	Date and H	our of Discovery:
	2-15-16 @ 11:00 pm	2-16-16 @	8:30 am
Was Immediate Notice Given?	If YES, To Whom?		
🗌 Yes 🛛 No 🔲 Not Required			
By Whom?			
Was a Watercourse Reached?	Date and Hour:		
	If YES, Volume Impacting the Wa	tercourse:	
🗌 Yes 🖾 No	Not Applicable		
If a Watercourse was Impacted, Describe Fully.* Not Applicable		·	
,			
Describe Cause of Problem and Remedial Action Taken.*			
The dump on the free water knockout malfunctioned causing the release	of oil and produced water. Vacuum tru	icks were call	ed in to draw up standing
fluid.			
Describe Area Affected and Cleanup Action Taken.*			
The spill impacted approximately 10,400 sq. ft. of caliche tank battery pa	ad. The entire release of oil and produc	ed water was	contained within the berms.
Vacuum trucks collected approximately 250 bbls of fluid from within co	ntainment. The stained soil has been so	craped up and	hauled to a state approved
disposal facility.			
1 housing and for the information after a first of the second			NR (0000 1 1
I hereby certify that the information given above is true and complete to	the best of my knowledge and underst	and that pursu	ant to NMOCD fulles and
regulations all operators are required to report and/or file certain release	notifications and perform corrective ac	tions for relea	ises which may endanger
public health or the environment. The acceptance of a C-141 report by the acceptance of a C-141 report	he NMOCD marked as "Final Report"	does not relie	ve the operator of hability
should their operations have failed to adequately investigate and remedia	ite contamination that pose a threat to g	ground water,	surface water, human
health or the environment. In addition, NMOCD acceptance of a C-141	report does not relieve the operator of	responsibility	for compliance with any
other federal, state, or local laws and/or regulations.			
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Signature: They Signas			
Signature: / Mult. / Duran		ant.	11
Distant for the fi	Approved by Environmental Speciali	st: Jamer	nye
Printed Name: Manuel Seriano			
	04/25/2016		06/25/2016
Title: Production Foreman	Approval Date: 04/25/2016	Expiration D	ate:
E-mail Address: jsoriano@legacylp.com	Conditions of Approval:		Attached
n linn is	Discrete samples only. Delineate and	remediate	IRP 4258
Date: <u>4-22-16</u> Phone: 432-269-8806	per NMOCD guidelines.		

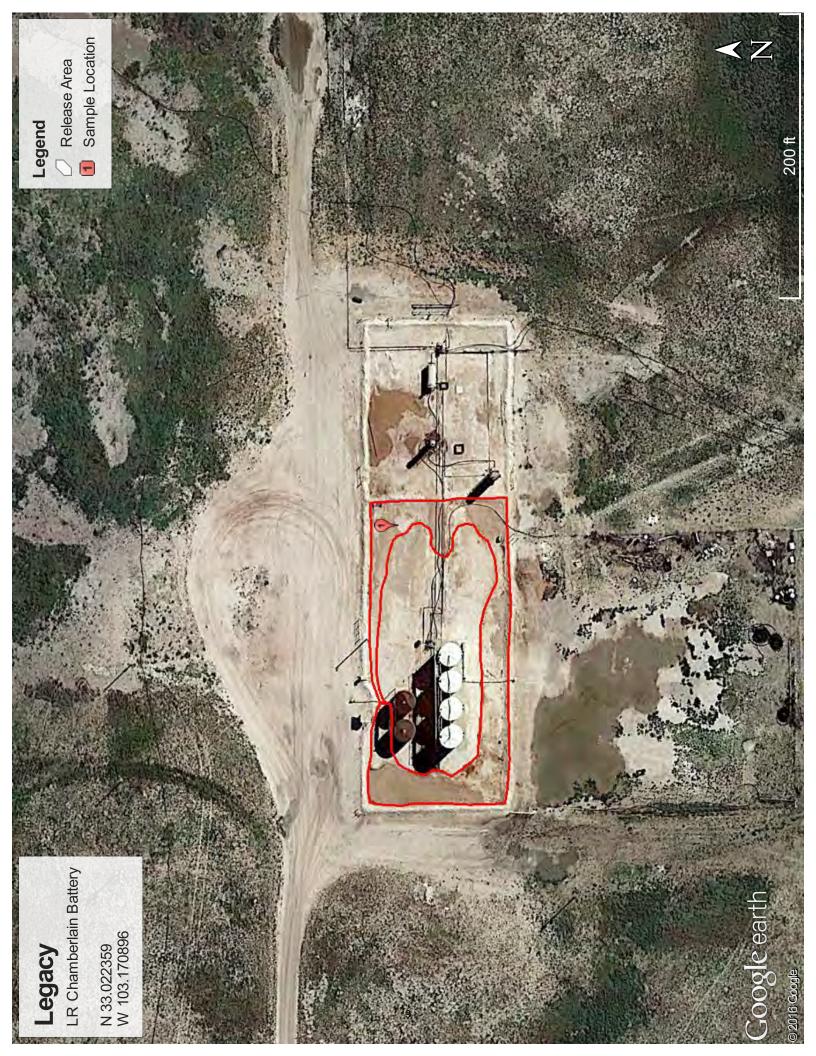
* Attach Additional Sheets If Necessary

nJXK1611630540 pJXK1611630727

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Appendix B

EPI Site Drawing and Analytical Drawing





May 26, 2016

Daniel Dominguez Environmental Plus, Inc. P.O. Box 1558 Eunice, NM 88231

RE: LR CHAMBERLAIN

Enclosed are the results of analyses for samples received by the laboratory on 05/24/16 15:33.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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



Analytical Results For:

Environmental Plus, Inc. Daniel Dominguez P.O. Box 1558 Eunice NM, 88231 Fax To: (505) 394-2601

Received:	05/24/2016	Sampling Date:	05/23/2016
Reported:	05/26/2016	Sampling Type:	Soil
Project Name:	LR CHAMBERLAIN	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-C SEC.14, T15S, R37E		

Sample ID: SP 1 (12') (H601131-01)

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	05/25/2016	ND	2.14	107	2.00	1.18	
Toluene*	<0.050	0.050	05/25/2016	ND	2.07	104	2.00	1.11	
Ethylbenzene*	<0.050	0.050	05/25/2016	ND	1.86	92.9	2.00	1.39	
Total Xylenes*	<0.150	0.150	05/25/2016	ND	5.71	95.1	6.00	1.47	
Total BTEX	<0.300	0.300	05/25/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 9	% 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	176	16.0	05/25/2016	ND	432	108	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	05/25/2016	ND	190	94.9	200	5.43	
DRO >C10-C28	32.1	10.0	05/25/2016	ND	186	92.9	200	16.1	
Surrogate: 1-Chlorooctane	102 9	% 35-147	,						

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 whatscever 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 whoto limitation, business interruptors, loss of growths incurred by client, its subsidiaries, affiliates or successor 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.

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

QR-03	The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager

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	Environmental Plus, Inc. P.O. Box 1558 2100 Avenue O Funice NM 88231	al Plus, Inc. x 1558 inue O d 82231			FIELD N	FIELD MEASUREMENT/OBSERVATION LOG	ENT/OBSE	RVATIO	A LOG				
5	(575) 394-2601 (fax)		COMPANY: Legacy		PROJECT N	PROJECT NAME: L.R. Chamberlan	Chamberlar		PR(PROJECT NUMBER:	ABER:		
PROJECT MANAGER:	R: Manuel Soriano	oriano	FIE	FIELD TECHNICIAN:	CHNICIAN: EDDIE GAYTAN	TAN			DATE:	re: 5-23-16			
							CHLORID	CHLORIDE ANALYSIS	74				
SAMPLE ID	SAMPLE DEPTH (FT)	COLLECTION TIME	PID ANALYSIS TIME		PID READING (PPM)			Titration Tube Reading		mg/Kg	SO	SOIL DESCRIPTION	
Sp1	3'	6:01	9:26	7	423	2 gms of soil	40 ml H2O	12 x	20 = 240				
Sp1A	4'	9.05	9:18	č	673	2 gms of soil	40 ml H2O	12 x	20 = 240				
Sp1B	6'	9:46	10:04		139	2 gms of soil	40 ml H2O	20 x	20 = 400				
Sp1C	7'	9:48	10:05		762	2 gms of soil	40 ml H2O	20 x	20 = 400				
Sp1D	8'	9:59	10:07		122	2 gms of soil	40 ml H2O	20 x	20 = 400				
SplE	9'	10:00	10:21	5	97.4	2 gms of soil	40 ml H2O	20 x	20 = 400				
Sp1F	10'	10:10	10:22	7	470	2 gms of soil	40 ml H2O	20 x	20 = 400				
Sp1G	11'	10:29	10:43		191	2 gms of soil	40 ml H2O	22 x	20 = 440				
Sight	12'	11:06	11:16	-	48	2 gms of soil	40 ml H2O	Х	20 =				
						2 gms of soil	40 ml H2O	х	20 =				
						2 gms of soil	40 ml H2O	х	20 =				
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						2 gms of soil	40 ml H2O	х	20 =				
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						2 gms of soil	40 ml H2O	х	20 =				
						2 gms of soil	40 ml H2O	х	20 =				
						2 gms of soil	40 ml H2O	х	20 =				
						2 gms of soil	40 ml H2O	х	20 =				
						2 gms of soil	40 ml H2O	x	20 =	┨			
			PID (PID CALIBRATION								WEATHER	
Time		Fresh Air	Span Gas	L	Time	Fresh Air	Air		Span Gas	-	Time	Temp. Misc	

Appendix C

Photographs

1RP-4258 LR Chamberlain Battery Crude Oil & Produced Water Spill October 9, 2017



Site Location



Site Prior to Remediation Viewing South, September 14, 2017

1RP-4258 LR Chamberlain Battery Crude Oil & Produced Water Spill October 9, 2017



Site Prior to Remediation Viewing East, September 14, 2017



Site Prior to Remediation Viewing South, September 14, 2017

1RP-4258 LR Chamberlain Battery Crude Oil & Produced Water Spill October 9, 2017



Site Prior to Remediation Viewing West, September 14, 2017