

APPROVED

By Olivia Yu at 11:45 am, Mar 08, 2018

NMOCD approves of the proposed delineation plan for 1RP-1568, 1RP-1711, 1RP-4231. See email correspondence for additional delineation sample locations.

**1RP-1568, 1RP-1711 & 1RP-4231
DELINEATION PLAN
J.M. Denton Battery
Produced Water And Crude Oil Spill
Lea County, New Mexico**

Latitude: N33.02996
Longitude: W-103.17116

LAI Project No.
17-0175-02
17-0175-03
17-0175-23

January 8, 2018

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

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



Mark J. Larson, P.G.
Certified Professional Geologist #10490



Sarah R. Johnson
Staff Geologist

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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 two produced water spills (1RP-1568 and 1RP-4231) and crude oil spill (1RP-1711) at the J.M. Denton Battery (Site) located in Unit J (NE/4, SW/4), Section 11, Township 15 South, Range 37 East, in Lea County, New Mexico. The geodetic position is North 33.02996 and West -103.17116. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

1.1 Background

A produced water spill occurred on September 10, 2007, due to power outage causing the water transfer pump to shut down and the alarm system to fail. The water tanks overflowed releasing more than 25 barrels (bbl) of produced water. An unknown amount of produced water was recovered. All released fluids were contained within the firewall. The initial C-141 was submitted on September 12, 2017 and assigned remediation permit number 1RP-1568. Appendix A presents the initial C-141.

On November 13, 2007, a crude oil spill occurred due to failure of the free water knock out transferring all the produced fluids to the oil tanks, causing the oil tank to overflow and release 70 barrels (bbl) of crude oil. Approximately 65 bbl were recovered. The released fluids were contained within the firewall surrounding the tank battery. The spill was reported to the OCD (verbal notification with Mark Whitaker) on November 13, 2007. The initial C-141 was submitted on November 14, 2007 and assigned remediation permit number 1RP-1711. Appendix A presents the initial C-141.

On April 3, 2016, a produced water spill occurred due to a leak in a transfer line from the tank battery, releasing 100 barrels (bbl) of produced water. Approximately 80 bbl were recovered. The fluids predominately contained around the well head. The initial C-141 was submitted on April 3, 2016 and assigned remediation permit number 1RP-4231.

1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,800 feet above mean sea level (msl);
- The topography slopes gently towards the southeast;
- 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 as 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;
- Groundwater occurs in the Ogallala formation at approximately 57 feet below ground surface (bgs) (1991);
- The nearest fresh water well is located in Unit M (SW/4, SW/4), Section 11, Township 15 South, Range 37 East, about 0.5 miles southwest 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: 10

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

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

2.0 PRELIMINARY DELINEATION

On August 23, 2016, Environmental Plus, Inc. (EPI) collected soil samples from eight (8) locations (SSP1 through SSP8) outside of the firewall. The samples were collected at the surface (0' bgs) and to a depth of 6 inches bgs. The samples were analyzed for chloride by titration method. The following samples reported chloride levels above 600 mg/Kg:

- SSP1, 0' (4,000 mg/Kg)
- SSP1A, 6" (1,600 mg/Kg)
- SSP2A, 6" (2,400 mg/Kg)
- SSP3A, 6" (720 mg/Kg)
- SSP5, 0' (1,360 mg/Kg)
- SSP6, 0' (2,000 mg/Kg)
- SSP7 0' (4,000 mg/Kg)
- SSP7A 6" (2,000 mg/Kg)

On December 21, 2016, EPI mobilized a drilling rig to collect soil samples at five (5) locations within the firewall (SP1 through SP5). The samples were collected at depths of 40 feet bgs (SP1 and SP4) and 70 feet bgs (SP2, SP3, and SP5). A groundwater sample was collected at SP5 at a depth of 70 feet bgs. The soil samples were delivered under chain of custody and preservation to Cardinal Laboratories (Cardinal), in Hobbs, New Mexico and analyzed for BTEX (the sum of benzene, toluene, ethylbenzene and xylene), total petroleum hydrocarbons (TPH), including gasoline range organics (GRO) and diesel range organics (DRO), and chloride. All samples reported below the RRAL for TPH. Chloride reported above 600 mg/Kg at SP3 (672 mg/Kg). Appendix B presents EPI preliminary delineation data.

3.0 DELINEATION PLAN

LAI proposes to delineate all three spills concurrently. LAI proposes to collect soil samples at fourteen (14) locations within the spill areas. 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 area 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 benzene, toluene, ethylbenzene and xylenes (BTEX), total potential hydrocarbons (TPH), including gasoline range organics (GRO), diesel range organics (DRO) and oil range organics (ORO) and chloride by EPA SW-846 Methods 8021B, 8015M and 300 respectively. Pending laboratory results, further delineation may be required to reach cleanup level standards. Figure 3 presents a site map showing proposed soil sample locations. Appendix C presents photographs.

4.0 REMEDIATION PLAN

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

Figures

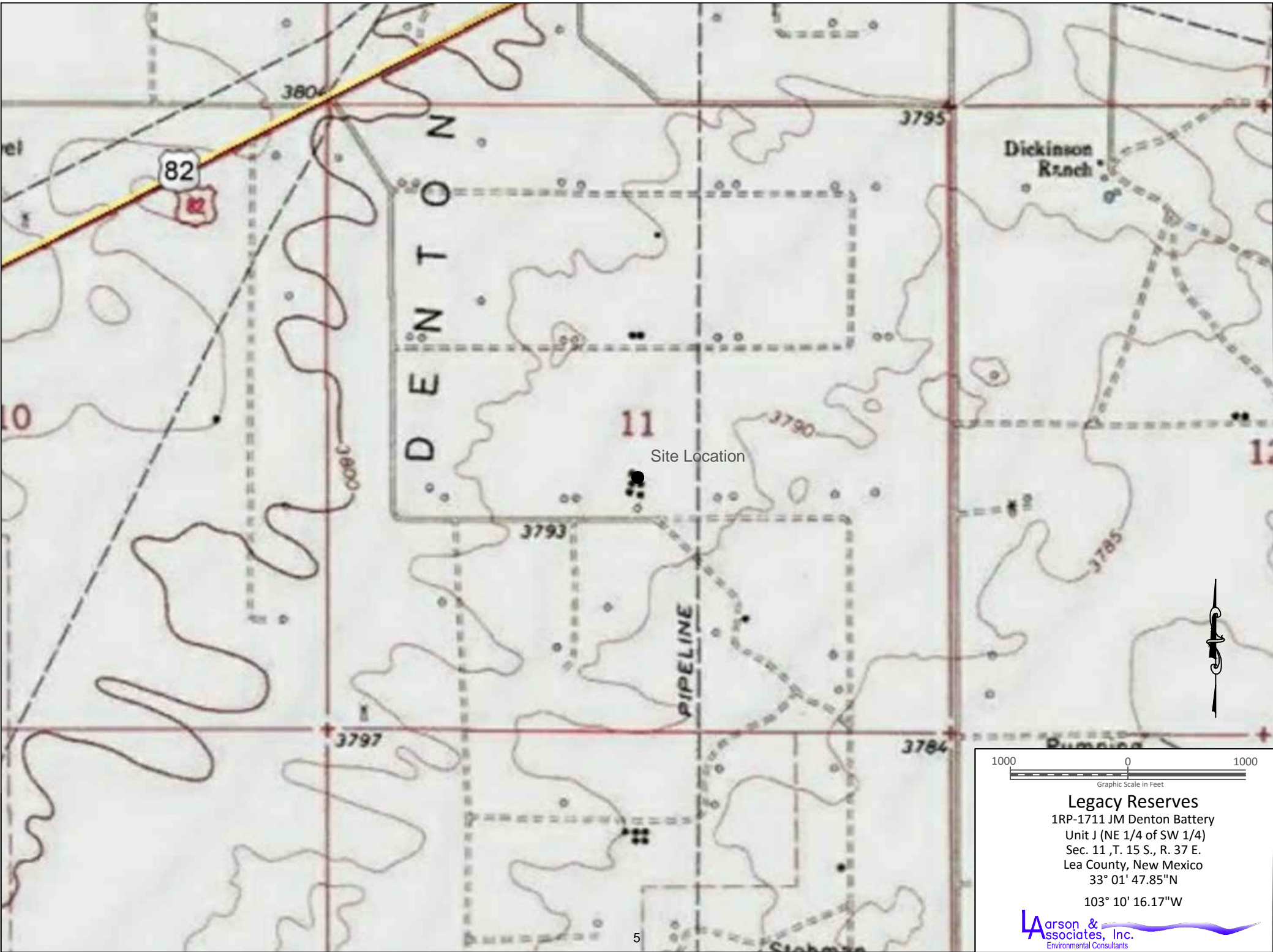


Figure 1 - Topographic Map



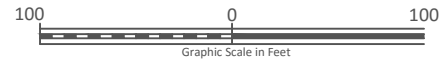
Legend



- Spill Area



- Proposed Sample Location



Legacy Reserves

1RP-1568 JM Denton Battery

Unit J (NE 1/4 of SW 1/4)

Sec. 11, T. 15 S., R. 37 E.

Lea County, New Mexico

33° 01' 47.85"N

103° 10' 16.17"W



Figure 3 - Aerial Map

Appendix A

Initial C-141

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	LEGACY RESERVES OPERATING LP	Contact	DANNY BROCK
Address	P.O. BOX 10848, MIDLAND, TX 79702	Telephone No.	432-689-5219, MOBILE - 432-559-4556
Facility Name	J. M. DENTON BATTERY	Facility Type	CENTRAL BATTERY
Surface Owner	DAR ANGEL	Mineral Owner	VARIOUS
		Lease No.	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	11	15S	37E	1650	SOUTH	2275	EAST	2

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	PROD WATER	Volume of Release	GREATER 25	Volume Recovered	GREATER 25
Source of Release	WATER TANK OVERFLOW	Date and Hour of Occurrence		Date and Hour of Discovery	
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? 9-10-07 8:00 AM	LARRY JOHNSON - OCD - HOBBS, NM		
By Whom?	DANNY M. BROCK	Date and Hour	9-10-07 11:00 AM		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.* SEVERE STORM IN AREA. POWER WENT DOWN ON WATER TRANSFER PUMP, ALARM SYSTEM FAILED. WATER TANKS OVERFLOWED. ALL FLUIDS CONTAINED WITHIN FIREWALL. THE FIREWALL ALSO HAD SUBSTANTIAL RAIN WATER IN IT. UNABLE TO DETERMINE SPILL VOLUME.

Describe Cause of Problem and Remedial Action Taken. THE POWER WAS RESTORED TO PUMPS. ALSO THE ALARM WAS REPAIRED.

Describe Area Affected and Cleanup Action Taken. ALL WATER WAS CONTAINED WITHIN THE FIREWALL. VACUUM TRUCK WERE USED TO RECOVER RAIN WATER AND PRODUCED WATER AND HAULED TO DISPOSAL. AREA WILL BE CLEANED AND FRESH DIRT SPREAD.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to 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.

Signature: <i>Danny M. Brock</i>	OIL CONSERVATION DIVISION <i>Larry Johnson</i>	
Printed Name: DANNY M. BROCK	Approved by District Supervisor: ENVIRONMENTAL ENGINEER	
Title: PRODUCTION SUPERINTENDENT	Approval Date: 9.17.07	Expiration Date: 11.16.07
E-mail Address: DBROCK@LEGACYLP.COM	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 9-12-07 Phone: 432-689-5219	SUBMIT FINAL REPORT	

* Attach Additional Sheets If Necessary

① INDICATE CHLORIDE CONTENT ON ALL PRODUCED WTR SPILLS. RPT# 568

District I
1625 N. French Dr., Hobbs, NM 88240
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State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Legacy Reserves Operating LP	Contact	Danny M. Brock
Address	P.O. Box 10848, Midland, TX 79702	Telephone No	432-689-5219.
Facility Name	J. M. Denton Battery	Facility Type	Production
Surface Owner	Darr Angel	Mineral Owner	Various
		Lease No.	16898

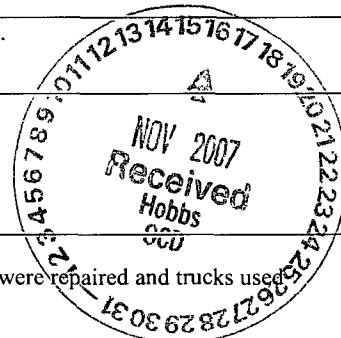
LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	11	15S	37E	1980	North	1980	East	Lea

Latitude 33.02996 Longitude -103.17116

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	70.	Volume Recovered	65
Source of Release	Oil tanks	Date and Hour of Occurrence	11-13-07 9:00 AM	Date and Hour of Discovery	11-13-07 10:00 AM
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mark Whitaker w/ OCD		
By Whom?	Danny M. Brock	Date and Hour	11-13-07 11:30 AM		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	NA		
If a Watercourse was Impacted, Describe Fully.	NA*				
Describe Cause of Problem and Remedial Action Taken. *					
The dump failed on FWKO sending all produced fluids to the oil tanks causing tanks to overflow. Dumps on FWKO were repaired and trucks used to recover discharge.					
Describe Area Affected and Cleanup Action Taken.					
All oil was confined within firewall around oil tanks. Free standing oil was picked up. Oil soaked dirt will be removed from firewall and disposed of. Fresh dirt will be put inside firewall.					
<i>To what depth? Remove contaminated soil until the soil looks clean. All</i>					



I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to 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.

Signature: <i>Danny M. Brock</i>		OIL CONSERVATION DIVISION	
Printed Name: Danny M. Brock		Approved by District Supervisor: <i>Chris Williams</i>	
Title: Production Superintendent		Approval Date: <i>1/16/08</i>	Expiration Date: <i>4/16/08</i>
E-mail Address: dbrock@legacyp.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 11/14/07 Phone: 432-689-5219			

* Attach Additional Sheets If Necessary

RP# 1711

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

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RECEIVED**By JKeyes at 1:32 pm, Apr 05, 2016**

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 Legacy Reserves	Contact Jesse Garcia
Address P O Box 10848	Telephone No. 432-853-3535
Facility Name J.M Denton	Facility Type Oil
Surface Owner	Mineral Owner
API No. 3002505275	

LOCATION OF RELEASE

Unit Letter	Section 11	Township 15S	Range 37E	Feet from the 1980	North/South Line South	Feet from the 1980	East/West Line West	County Lea
-------------	---------------	-----------------	--------------	-----------------------	---------------------------	-----------------------	------------------------	---------------

Latitude 33.029945 Longitude -103.172623

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 100	Volume Recovered 80
Source of Release Battery	Date and Hour of Occurrence 2:30PM 4/3/16	Date and Hour of Discovery 2:30PM 4/3/16
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Left a voice Mail	
By Whom?	Date and Hour 9:00 AM 4/4/16	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.* N/A

Describe Cause of Problem and Remedial Action Taken.*
Transfer line got a leak, picked up excess water

Describe Area Affected and Cleanup Action Taken.*
Will clean up location, and replace with clean dirt

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to 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.

OIL CONSERVATION DIVISION

Signature:



Printed Name: Jesse Garcia

Approved by Environmental Specialist:



Title: Foreman

Approval Date: 04/05/2016

Expiration Date: 06/05/2016

E-mail Address: jgarcia@legacyp.com

Conditions of Approval:

Discrete site samples only. Delineate and
remediate per NMOCD guidelines. Geotagged
photos of remediation recommended.

Attached ☐
IRP 4231

Date: 4/3/16

Phone: 432-853-3535

* Attach Additional Sheets If Necessary

nJXK1609648622
pJXK1609648696

Appendix B
EPI Preliminary Delineation Data

Legacy JM Denton CTB

Legend

- 1 SSP 1
- 2 SSP 2
- 3 SSP 3
- 4 SSP 4
- 5 SSP 5
- 6 SSP 6
- 7 SSP 7
- 8 SSP 8



Google earth

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Environmental Plus, Inc.
P.O. Box 1558
2100 Avenue O
Eunice, NM 88231
(575) 394-3481
(575) 394-2601 (fax)

FIELD MEASUREMENT/OBSERVATION LOG

COMPANY: Legacy

PROJECT NAME: JM Denton CTB

PROJECT MANAGER: Brandon Boone

FIELD TECHNICIAN: HERI GAYTAN

8/23/16

SAMPLE ID	SAMPLE DEPTH (FT)	COLLECTION TIME	PID ANALYSIS TIME	PID READING (PPM)	CHLORIDE ANALYSIS					SOIL DESCRIPTION
							Titration Tube Reading		mg/Kg	
SSP1	Surface	9:57			2 gms of soil	40 ml H2O	200	x 20 =	4000+	
SSP1A	6"	10:05			2 gms of soil	40 ml H2O	80	x 20 =	1600	
SSP2	Surface	10:15			2 gms of soil	40 ml H2O	28	x 20 =	560	
SSP2A	6"	10:10			2 gms of soil	40 ml H2O	120	x 20 =	2400	
SSP3	Surface	10:20			2 gms of soil	40 ml H2O	16	x 20 =	320	
SSP3A	6"	10:30			2 gms of soil	40 ml H2O	36	x 20 =	720	
SSP4	Surface	10:45			2 gms of soil	40 ml H2O	4	x 20 =	80	
SSP4A	6"	10:55			2 gms of soil	40 ml H2O	20	x 20 =	400	
SSP5	Surface	11:08			2 gms of soil	40 ml H2O	68	x 20 =	1360	
SSP5A	6"	11:16			2 gms of soil	40 ml H2O	12	x 20 =	240	
SSP6	Surface	11:24			2 gms of soil	40 ml H2O	100	x 20 =	2000	
SSP6A	6"	11:38			2 gms of soil	40 ml H2O	28	x 20 =	560	
SSP7	Surface	1:15			2 gms of soil	40 ml H2O	200	x 20 =	4000+	
SSP7A	6"	1:24			2 gms of soil	40 ml H2O	100	x 20 =	2000	
SSP8	Surface	1:31			2 gms of soil	40 ml H2O	4	x 20 =	80	
SSP8A	6"	1:46			2 gms of soil	40 ml H2O	20	x 20 =	400	
					2 gms of soil	40 ml H2O		x 20 =		
					2 gms of soil	40 ml H2O		x 20 =		
					2 gms of soil	40 ml H2O		x 20 =		

PID CALIBRATION

WEATHER

Time	Fresh Air	Span Gas	Time	Fresh Air	Span Gas	Time	Temp.	Misc



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 03, 2017

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: JM DENTON TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/22/16 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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 accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

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:	12/22/2016	Sampling Date:	12/21/2016
Reported:	01/03/2017	Sampling Type:	Soil
Project Name:	JM DENTON TANK BATTERY	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-K SEC. 11, T15S, R37E		

Sample ID: SP 1 (40') (H602864-01)

BTX 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	12/29/2016	ND	2.06	103	2.00	1.01	
Toluene*	<0.050	0.050	12/29/2016	ND	2.16	108	2.00	0.806	
Ethylbenzene*	<0.050	0.050	12/29/2016	ND	2.12	106	2.00	0.955	
Total Xylenes*	<0.150	0.150	12/29/2016	ND	6.36	106	6.00	0.865	
Total BTX	<0.300	0.300	12/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	12/28/2016	ND	416	104	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/27/2016	ND	186	93.0	200	6.66	
DRO >C10-C28	<10.0	10.0	12/27/2016	ND	189	94.4	200	6.77	

Surrogate: 1-Chlorooctane 94.7 % 35-147

Surrogate: 1-Chlorooctadecane 105 % 28-171

Cardinal Laboratories

*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, 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: 12/22/2016
Reported: 01/03/2017
Project Name: JM DENTON TANK BATTERY
Project Number: NONE GIVEN
Project Location: UL-K SEC. 11, T15S, R37E

Sampling Date: 12/21/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 2 (70') (H602864-02)

BTX 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	12/29/2016	ND	2.06	103	2.00	1.01	
Toluene*	<0.050	0.050	12/29/2016	ND	2.16	108	2.00	0.806	
Ethylbenzene*	<0.050	0.050	12/29/2016	ND	2.12	106	2.00	0.955	
Total Xylenes*	<0.150	0.150	12/29/2016	ND	6.36	106	6.00	0.865	
Total BTX	<0.300	0.300	12/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 129 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	176	16.0	12/28/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/27/2016	ND	186	93.0	200	6.66	
DRO >C10-C28	18.1	10.0	12/27/2016	ND	189	94.4	200	6.77	

Surrogate: 1-Chlorooctane 83.6 % 35-147

Surrogate: 1-Chlorooctadecane 89.0 % 28-171

Cardinal Laboratories

*=Accredited Analyte

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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: 12/22/2016
 Reported: 01/03/2017
 Project Name: JM DENTON TANK BATTERY
 Project Number: NONE GIVEN
 Project Location: UL-K SEC. 11, T15S, R37E

 Sampling Date: 12/21/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 3 (70') (H602864-03)

BTX 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	12/29/2016	ND	2.06	103	2.00	1.01	
Toluene*	<0.050	0.050	12/29/2016	ND	2.16	108	2.00	0.806	
Ethylbenzene*	<0.050	0.050	12/29/2016	ND	2.12	106	2.00	0.955	
Total Xylenes*	<0.150	0.150	12/29/2016	ND	6.36	106	6.00	0.865	
Total BTX	<0.300	0.300	12/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 130 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	12/28/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/28/2016	ND	181	90.3	200	0.348	
DRO >C10-C28	<10.0	10.0	12/28/2016	ND	187	93.5	200	2.11	

Surrogate: 1-Chlorooctane 86.5 % 35-147

Surrogate: 1-Chlorooctadecane 97.9 % 28-171

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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: 12/22/2016
 Reported: 01/03/2017
 Project Name: JM DENTON TANK BATTERY
 Project Number: NONE GIVEN
 Project Location: UL-K SEC. 11, T15S, R37E

 Sampling Date: 12/21/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: SP 4 (40') (H602864-04)

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	12/29/2016	ND	2.06	103	2.00	1.01	
Toluene*	<0.050	0.050	12/29/2016	ND	2.16	108	2.00	0.806	
Ethylbenzene*	<0.050	0.050	12/29/2016	ND	2.12	106	2.00	0.955	
Total Xylenes*	<0.150	0.150	12/29/2016	ND	6.36	106	6.00	0.865	
Total BTEx	<0.300	0.300	12/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 130 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/28/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/28/2016	ND	181	90.3	200	0.348	
DRO >C10-C28	<10.0	10.0	12/28/2016	ND	187	93.5	200	2.11	

Surrogate: 1-Chlorooctane 101 % 35-147

Surrogate: 1-Chlorooctadecane 109 % 28-171

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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: 12/22/2016
Reported: 01/03/2017
Project Name: JM DENTON TANK BATTERY
Project Number: NONE GIVEN
Project Location: UL-K SEC. 11, T15S, R37E

Sampling Date: 12/21/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 (70') (H602864-05)

BTX 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	12/29/2016	ND	2.06	103	2.00	1.01	
Toluene*	<0.050	0.050	12/29/2016	ND	2.16	108	2.00	0.806	
Ethylbenzene*	<0.050	0.050	12/29/2016	ND	2.12	106	2.00	0.955	
Total Xylenes*	<0.150	0.150	12/29/2016	ND	6.36	106	6.00	0.865	
Total BTX	<0.300	0.300	12/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 131 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/28/2016	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	12/28/2016	ND	181	90.3	200	0.348	
DRO >C10-C28	<10.0	10.0	12/28/2016	ND	187	93.5	200	2.11	

Surrogate: 1-Chlorooctane 75.6 % 35-147

Surrogate: 1-Chlorooctadecane 93.6 % 28-171

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231
(575) 394-3481 FAX: (575) 394-2601

P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form

LAB Cardinal

Page 1 of 1

Page 8 of 8

Company Name Environmental Plus, Inc.
EPI Project Manager Daniel Dominguez
Mailing Address P.O. BOX 1558
City, State, Zip Eunice New Mexico 88231
EPI Phone#/Fax# 575-394-3481 / 575-394-2601
Client Company Legacy LP
Facility Name JM Denton Tank Battery
Location UL-K Sec. 11, T15S, R37E
Project Reference
EPI Sampler Name David Robinson



Attn: Daniel Dominguez
P.O. Box 1558
Eunice, NM 88231

Bill To

ANALYSIS REQUEST

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX								PRESERV.	SAMPLING	ANALYSIS REQUEST										
				GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL			OTHER	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl ⁻)	SULFATES (SO ₄ ²⁻)	pH	TCLP	OTHER >>>	PAH
H0028104	1 SP1 (40')	G	1			X						X	21-Dec-16	12:10	X	X	X							
	2 SP2 (70')	G	1			X						X	21-Dec-16	13:50	X	X	X							
	3 SP3 (70')	G	1			X						X	21-Dec-16	11:31	X	X	X							
	4 SP4 (40')	G	1			X						X	21-Dec-16	9:55	X	X	X							
	5 SP5 (70')	G	1			X						X	21-Dec-16	9:31	X	X	X							
	6																							
	7																							
	8																							
	9																							
	10																							

Sampler Relinquished:

Relinquished by:

Delivered by:

Date 12/22/16
Time 6:00 am

Received By: [Signature]

Date 12/22/16
Time 5:35 pm

Received By: [Signature]

Sample C-00 & Intact
Yes No

Checked By: [Signature]

NOTES:

E-mail results to: ddominguezepi@gmail.com & jsoriano@legacyp.com



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 03, 2017

Daniel Dominguez

Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: JM DENTON TANK BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/22/16 15:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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 accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

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: 12/22/2016
Reported: 01/03/2017
Project Name: JM DENTON TANK BATTERY
Project Number: NONE GIVEN
Project Location: UL-K SEC. 11, T15S, R37E

Sampling Date: 12/21/2016
Sampling Type: Water
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: SP 5 (70') (H602865-01)

BTX 8021B		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.003	0.001	12/29/2016	ND	0.020	97.6	0.0200	0.138	
Toluene*	<0.001	0.001	12/29/2016	ND	0.019	96.9	0.0200	0.00516	
Ethylbenzene*	<0.001	0.001	12/29/2016	ND	0.020	100	0.0200	0.290	
Total Xylenes*	<0.003	0.003	12/29/2016	ND	0.059	98.2	0.0600	0.299	
Total BTX	<0.006	0.006	12/29/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.7-146

Chloride, SM4500Cl-B		mg/L		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride*	370	4.00	12/28/2016	ND	100	100	100	3.92	

TPH 8015M		mg/L		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<1.00	1.00	12/31/2016	ND	45.1	90.2	50.0	2.12	
DRO >C10-C28	<1.00	1.00	12/31/2016	ND	46.8	93.6	50.0	1.65	
EXT DRO >C28-C35	<1.00	1.00	12/31/2016	ND	0.759		0.00		

Surrogate: 1-Chlorooctane 95.7 % 34.8-131

Surrogate: 1-Chlorooctadecane 108 % 30.4-167

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Environmental Plus, Inc.

2100 Avenue O, Eunice, NM 88231
(575) 394-3481 FAX: (575) 394-2601

P.O. Box 1558, Eunice, NM 88231

Chain of Custody Form
LAB **Cardinal**

Company Name Environmental Plus, Inc.

Bill To

ANALYSIS REQUEST

EPI Project Manager Daniel Dominguez

Mailing Address P.O. BOX 1558

City, State, Zip Eunice New Mexico 88231

EPI Phone#/Fax# 575-394-3481 / 575-394-2601

Client Company Legacy LP

Facility Name JM Denton Tank Battery

Location UL-K Sec. 11, T15S, R37E

Project Reference

EPI Sampler Name David Robinson

Attn: Daniel Dominguez
P.O. Box 1558
Eunice, NM 88231



LAB I.D. SAMPLE I.D.

H1002865

1 SP5 (70')

(G)RAB OR (C)OMP.

CONTAINERS

GROUND WATER

WASTEWATER

SOIL

CRUDE OIL

SLUDGE

OTHER:

ACID/BASE

ICE/COOL

OTHER

DATE

TIME

21-Dec-16

9:40

BTEX 8021B

TPH 8015M

CHLORIDES (Cl)

SULFATES (SO₄²⁻)

pH

TCLP

OTHER >>>

PAH

Sampler Relinquished:

Date 12/22/16

Received By: [Signature]

E-mail results to: ddominguezepi@gmail.com & jsoriano@legacylp.com

Relinquished by:

Date 12/22/16

Received By: [Signature]

NOTES:

Delivered by:

Date 12/22/16

Received By: [Signature]

Sample Cool & Intact

Yes

No

Checked By: [Signature]

Sample Cool & Intact

Yes

No

Checked By: [Signature]

Sample Cool & Intact

Yes

No

Checked By: [Signature]

Sample Cool & Intact

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Sample Cool & Intact

Yes

No

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Sample Cool & Intact

Yes

No

Checked By: [Signature]

Sample Cool & Intact

Yes

Appendix C

Photographs



Site Location



Site Prior to Remediation Viewing North, September 14, 2017



Site Prior to Remediation Viewing East, September 14, 2017



Site Prior to Remediation Viewing North, September 14, 2017



Site Prior to Remediation Viewing Southeast, September 14, 2017



Site Prior to Remediation Viewing South, September 14, 2017



Site Prior to Remediation Viewing Southwest, September 14, 2017



Site Prior to Remediation Viewing West, September 14, 2017



Site Prior to Remediation Viewing Northeast, September 14, 2017