#### **APPROVED**

By Olivia Yu at 9:19 am, Mar 05, 2018

NMOCD approves of the proposed confirmatory delineation plan for 1RP-4538.

#### 1RP-4538 DELINEATION PLAN LMPSU 1 CTB Produced Water Spill Lea County, New Mexico

Latitude: N 32.356572° Longitude: W -103.14906°

LAI Project No. 17-0175-39

February 15, 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

arah RyJohnson Staff Geologist

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

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1RP-4538 Delineation Plan LMPSU 1 CTB February 15, 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 1 for a produced water spill at the LMPSU 1 CTB (Site) located in Unit O (SE/4, SE/4), Section 27, Township 22 South, Range 37 East in Lea County, New Mexico. The geodetic position is North 32.356572° and West - 103.149062°. Figure 1 presents a topographic map. Figure 2 presents an aerial map.

#### 1.1 Background

The spill occurred on December 18, 2016 due to failure of an injection line. The failure allowed for approximately 730 barrels (bbl) of produced water to be released onto the lease road. Approximately 660 bbl were recovered. The area measures approximately 44, 500 square feet. The spill was reported to the OCD the day of the release (verbal communication with Kristen Lynch). The initial C-141 was submitted on December 22, 2016 and assigned remediation permit number 1RP-4538. Appendix presents the initial C-141.

On December 21, 2016 and January 4- 5, 2017, Environment Plus, Inc. (EPI) collected soil samples at seven (7) locations (SP1 through SP7). The samples were collected every 2 feet below ground surface (bgs) until refusal between approximately 2 and 22 feet bgs. The deepest sample from each location was delivered Cardinal Laboratories (Cardinal) in Hobbs, New Mexico and analyzed for chloride by titration method SM4500 CL-B.

Chloride tested above the delineation limit of 250 mg/Kg in the following samples:

• SP1, 4' (368 mg/Kg)

• SP3, 4' (496 mg/Kg)

• SP2, 22' (304 mg/Kg)

On March 6, 2017 EPI collected soil samples at ten (10) locations (SPH1 through SPH10). The samples were collected at surface, 1 and 2 feet bgs. The top and deepest samples from each location were delivered Cardinal and analyzed for chloride by titration method SM4500 CL-B. Chloride tested below the delineation limit in all samples.

On an unknown date, EPI excavated the release area to a depth of 2 feet bgs. Appendix B presents the EPI work plan.

#### 1.2 Physical Setting

The physical setting is as follows:

- The surface elevation is approximately 3,330 feet above mean sea level (msl);
- The topography slopes gently to the southeast;
- There are no surface water features within 1,000 feet of the Site;
- The soils are designated as "Ratliff-Wink fine sandy loams, 0 to 3 percent slopes", consisting of 0 to 4 inches of fine sandy loam underlain by 4 to 22 inches of clay loam;
- The geology is the Eolian and piedmont deposits (Holocene to middle Pleistocene) interlayed eolian sands and piedmont-slope deposits;

- Groundwater occurs in the Ogallala formation at approximately 44 feet below ground surface (bgs)(2013);
- According to the New Mexico Office of the State Engineer (OSE) website the nearest groundwater well is located in Unit O (SW/4, SE/4), Section 27, Township 22 South, Range 37 East, approximately 0.04 miles west of the Site.

#### 1.3 Recommended Remediation Action Levels

Recommended remediation action levels (RRAL) were calculated for benzene, BTEX and TPH based of the following criteria established by the OCD in *"Guidelines for Remediation of Leaks, Spills and Releases, pp.6-6, August 13, 1993"*:

Criteria	Result	Score
Depth-to-Groundwater	<50 Feet	20
Wellhead Protection Area	Yes	20
Distance to Surface Water Body	>1,000 Horizontal Feet	0

The following RRAL apply to the release for ranking score: 40

- Benzene 10 mg/Kg
- BTEX 50 mg/Kg
- TPH 100 mg/Kg

Depth to groundwater less than 50 feet bgs requires vertical delineation for chloride to 250 milligrams per kilogram (mg/Kg) and maintained for 10 feet farther in depth.

#### **2.0 DELINEATION PLAN**

LAI proposes to collect soil samples at eight (8) locations within the spill area. 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 preservation and chain of custody to Xenco Laboratories (Xenco) in Midland, Texas. The upper samples (0 to 1 foot) will be analyzed for BTEX, the sum of benzene, toluene, ethylbenzene and xylenes and TPH, total petroleum hydrocarbons, including gasoline range organics (GRO), diesel range organics (DRO) and oil range organics (OR) by EPA SW-846 Methods 8021B and 8015M, respectively. Additional samples will be analyzed for BTEX and TPH for vertical delineation should the initial samples report concentrations above the RRAL. All samples will be analyzed for chloride by Method 300 respectively. Pending laboratory results, further delineation will be determined to reach cleanup level standards. Appendix C presents photographs.

1RP-4538 Delineation Plan LMPSU 1 CTB February 15, 2018

#### **3.0 REMEDIATION**

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



Figure 2 - Aerial Map with Proposed Sample Points

Appendix A

Initial C-141

#### **NM OIL CONSERVATION**

#### DEC 27 2016

						A	RTESI	A DISTRICT				
						1	DEC	27 2016				
<u>District I</u> 1625 N. French Dr., Hobbs. <u>District II</u>	, NM 88240		St Energy Mi	ate of inerals	New Mex and Natura	ico 1 Resources	REC	EIVED		Forn Revised Augu		
District III 000 Rio Brazos Road, Azt District IV 2005 St. Francis Dr. Sar	ec, NM 87410	·	Oil ( 1220	Conse ) Sout	rvation Div h St. Franc	vision is Dr.	Su	bmit 1 Copy ac	to appro cordance	priate District with 19.15.29		
1220 S. SI. Francis Dr., Sar	ita Fe, NM 87503	› 	Sa	anta F	e, NM 875	05						
-AB163653	36260	Release	Notificat OPERA	tion : TOF	and Corr	rective Act	<b>ion</b> nitial	Report		Final Repo		
Name of Company	iy: Legacy,	L.P.	244281		Contact: E	Ernest Barrier	ntez					
Address: P.O. Bo	x 10848 M	idland, T	<u>X 79702</u>		Telephone	No. 432-85	<u>3-063</u>	3				
Facility Name: Ll	MPSU 1 CT	ГВ			Facility T	ype: Injection	<u>ı Line</u>	2	······			
Surface Owner:	.egacv		Mineral	Own	er:		••••••	API N	0.	<u></u>		
			LOCAT	TON	OPDELE	ACE						
Unit Letter Section O 27	Township 22S	Range 37E	Feet from the	Nort	h/South Line	Feet from the	East/	West Line		County Lea		
	Ι	atitude:	<u>N 32.3565′</u> NATU	<u>72°</u> RE C	Longitude	: <u>W 103.1490</u> SE	<u>062°</u>					
Type of Release: produ	uced water				Volume of	Release/ 730 ba	rrels	Volume R	lecovered	d: 660 barrels		
Source of Release: inje	ection line faile	d			Date and H	lour of Occurrence	e:	Date and I	Hour of I	Discovery:		
Was Immediate Notice	Given?	Yes 🔲 1	No 🗌 Not R	equired	If YES, To Kristen Ly	Whom? nch, Tomas Ober	ding, O	)CD	<u>(() <del>111K110</del></u>	**** 7:13 /fl		
By Whom? Legacy	·				Date and H	lour: 12/18/16						
Was a Watercourse Rea	ached?	Yes 🛛 1	No		If YES, Vo Not Applic	If YES, Volume Impacting the Watercourse: Not Applicable						
If a Watercourse was Ir	npacted, Descr	ibe Fully.* 1	Not Applicable	;	<u>}</u>		****************					
Describe Cause of Prob An injection line develo	olem and Reme oped a leak rele	dial Action T asing fluid to	Faken.* o lease road. A	vacuui	n truck was di	spatched to collec	et stand	ing fluid.		······		
Describe Area Affected	and Cleanup A	Action Taker	1.* able to recove	т 660 b	arrels of the flu	uid from lease roa	ad and j	pasture. Surf	àce conta	amination will		

RECEIVED Submit 1 Copy to appropriate District Office in

accordance with 19.15.29 NMAC.

Form C-141 Revised August 8, 2011

and understand that pursuant to NMOCD rules and tors 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.

rederuit, suite, er toeur laws and er regelations.	
Signature: Anest Barnients	OIL CONSERVATION DIVISION
Printed Name: Ernest Barrientez	Approved by Environmental Specialist
Title: Production Foreman	Approval Date: 8 30 6 Expiration Date: N/A
E-mail Address: cbarrientez@legacylp.com Date: Dec. 22, 2016 Phone: 432-853-0633	- Conditions of Approval: delineation is Attached & attached
* Attach Additional Sheets If Necessary	needed before site ranking (an be assessed IRP-4538

Operator/Responsible Party,

The OCD has received the form C-141 you provided on **12/27/16** regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number  $10^{-4500}$  has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 2/3/1/2. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

• Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

• Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C<sub>6</sub> thru C<sub>36</sub>), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

• Nominal detection limits for field and laboratory analyses must be provided.

• Composite sampling is not generally allowed.

• Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

•Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

• If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

• Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

#### Weaver, Crystal, EMNRD

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From:Lynch, Kristen, EMNRDSent:Tuesday, December 27, 2016 1:20 PMTo:Weaver, Crystal, EMNRD; Bratcher, Mike, EMNRD; Billings, Bradford, EMNRDSubject:Fw: LMPSU 1 CTB Initial C-141Attachments:LMPSU 1 CTB Initial C-141.pdf

From: Daniel Dominguez <ddominguezepi@gmail.com> Sent: Tuesday, December 27, 2016 9:50 AM To: Lynch, Kristen, EMNRD; ebarrientez@legacylp.com; bboone.epi@gmail.com Subject: LMPSU 1 CTB Initial C-141

Ms. Lynch,

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Attached for your review is the Initial C-141 for the LMPSU 1 CTB, operated by Legacy.

Sincerely, ENVIRONMENTAL PLUS, INC.

Daniel Dominguez Environmental Consultant/Safety Director

Environmental Plus, Inc. P.O. Box 1558 2100 Avenue 'O' Eunice, NM 88231 (575) 631-0401 (Cell) (575) 394-3481 (Office) (575) 394-2601 (fax) Appendix B EPI Work Plan

#### ENVIRONMENTAL PLUS, INC.

2100 AVE 'O' P.O. BOX 1558 Eunice, NM 88231 ddominguezepi@gmail.com Office: (575) 394-3481 Fax: (575) 394-2601



#### Site Characterization and Work Plan

Legacy, L.P. LMPSU 1 CTB Lea County, New Mexico Unit Letter "O", Section 27, Township 22 South, Range 37 East Latitude 32.356572 North, Longitude 103.149062 West NMOCD Reference #1RP-4538

Prepared For:

Legacy, L.P. P.O. Box 10848 Midland, Texas 79702

Prepared By:

Environmental Plus, Inc. 2100 Ave 'O' Eunice, NM 88231

March 2017

Daniel Dominguez Project Manager



The following *Site Characterization and Work Plan* serves as a condensed update on field activities undertaken and proposed actions for the afore referenced Site.

#### **Background:**

The site is located in Unit Letter O (SW <sup>1</sup>/<sub>4</sub> SE <sup>1</sup>/<sub>4</sub>), Section 27, Township 22 South, Range 37 East, approximately five miles south-east of Eunice, in Lea County, New Mexico. The property is owned by Legacy.

The release site is located on an active lease road; latitude 32.356572 North, longitude 103.149062 West. Area Map, Site Location Map, and Sample/Site Map are included as Figure 1, Figure 2, and Figure 3, respectively. The Initial NMOCD Form C-141 indicated that on December 18, 2016 approximately 730 barrels of produced water was released when an injection line developed a leak releasing the fluid to lease road. A vacuum truck was dispatched to the site and recovered approximately 660 barrels, resulting in a net loss of 70 barrels of produced water. The visually stained area covers approximately 61,000 square feet of lease road. The Initial NMOCD Form C-141 in included as Attachment IV.

#### **NMOCD Site Classification:**

A search for water wells was completed utilizing the New Mexico Office of the State Engineer's (NMOSE) website. There are twelve wells located in the area surrounding the release site (reference *Table 1*). Also, no wells (domestic, agriculture or public) and no bodies of surface water exist within a 1,000-foot radius of the release site. There is a monitor well, CP 01177, within the 1,000-foot radius of the release site with an indicated depth to water of 41 feet below ground surface (bgs) (reference *Table 1* and *Figure 2*). The NMOSE database indicates average water depth is approximately 59 feet bgs within a 2,000-meter radius (reference *Attachment II*).

Utilizing this information, the NMOCD guidelines indicate the LMPSU 1 CTB release site to have a ranking score of twenty. Based on this score, the NMOCD Recommended Remedial Action Levels (RRALs) for vertical delineation at this Site were determined as follows: Benzene -10 mg/Kg, BTEX -50 mg/Kg, TPH -100 mg/Kg, and Chloride -250 mg/Kg. The NMOCD RRALs for horizontal delineation at this Site were determined as follows: Benzene -10 mg/Kg, BTEX -50 mg/Kg, TPH -100 mg/Kg, and Chloride -250 mg/Kg. The NMOCD RRALs for horizontal delineation at this Site were determined as follows: Benzene -10 mg/Kg, BTEX -50 mg/Kg, TPH -100 mg/Kg, and Chloride -600 mg/Kg.

The produced water flowed south off the tank battery pad and east down the lease road approximately 1,500 feet and approximately 600 feet down another lease road. This area is caliche.

#### **Delineation Progress:**

On December 21, 2016 and January 4-5, 2017 EPI personnel mobilized on site to collect soil samples to determine the vertical extent of contamination. A total of twenty-seven soil samples were collected from seven sample locations; SP1 – SP7. Seven representative samples, one from TD at each sample location, were sent to Cardinal Labs in Hobbs, New Mexico, for chloride testing. Laboratory analytical results indicate Chloride concentrations more than NMOCD RRALs of 250 mg/Kg at depth of sample locations SP1, SP2, and SP3 (reference *Figure 3* and *Table 2*).



On March 6, 2017 EPI personnel mobilized on site to collect soil samples to determine the horizontal extent of contamination. A total of thirty soil samples were collected from ten sample locations; SPH1 – SPH10. Twenty representative samples, surface and TD samples from each sample location, were sent to Cardinal Labs in Hobbs, New Mexico, for chloride testing. Laboratory analytical results indicate that the area adjacent to the release area, horizontally, is void of Chloride concentrations more than NMOCD RRALs of 600 mg/Kg at surface and depth of samples (reference *Figure 3* and *Table 2*).

#### **Proposed Actions:**

Taking into consideration the release occurred on an active lease road and tank battery, and laboratory tests indicating chloride levels above NMOCD RRALs at SP1 – SP3 (reference *Table 2*), EPI proposes to excavate the entire release area to one foot bgs and then backfill with one foot of caliche to impede the further vertical migration of chloride impacts. Backfill soil will be free of deleterious material or rocks or large clumps.

Backfilling will continue until the entire excavation is closed. Upon completion of backfill activities, the entire disturbed area will be contoured to blend with existing lease road/tank battery and protected against wind/water erosion.

Following completion of NMOCD approved Proposed Actions, EPI will provide a detailed *Final Closure Report* to Legacy, L.P. and NMOCD personnel. Legacy, L.P. and EPI personnel would welcome an opportunity to briefly discuss the *Work Plan* at your earliest convenience.

Should you have any questions or concerns please feel free to contact me at (575) 394-3481 or via e-mail at ddominguezepi@gmail.com or Mr. Steven Dittman at (432) 312-4757 or via e-mail at sdittman@legacylp.com. All official communication should be addressed to:

Mr. Steven Dittman Legacy, L.P. P.O. Box 10848 Midalnd, TX 79702

Sincerely,

ENVIRONMENTAL PLUS, INC.

Dow

Daniel Dominguez Environmental Consultant



cc: Olivia Yu, Environmental Specialist – NMOCD District 1, Hobbs Steven Dittman, Production Tech – Legacy, L.P. File

Encl.: Figure 1 – Area Map
Figure 2 – Site Location Map
Figure 3 – Sample/Site Map
Table 1 – Well Data
Table 2 – Summary of Soil Sample Field Testing and Laboratory Analytical Results
Attachment I – Photographs
Attachment II – NMOSE Average Depth to Groundwater
Attachment III – Laboratory Analytical Results
Attachment IV – Copy of Initial NMOCD Form C-141

#### **FIGURES**







### Well Data

## Legacy, L.P. - LMPSU 1 CTB

							-									Depth
# 3° U	Woll Mimbou	IIee	v .		267	5	2	E C		2.00	Latina	Monthing	B	Date	Surface	to
# IAN		C Se	Diversion	OWIEL	404	0 1 b	5	260 1	r dsm	âIN	Lasung	Northing	Distance	Measured	Elevation <sup>C</sup>	Water
																(ft bgs)
1	CP 01177	MON	0	LEGACY RESERVES	2	2	4	4	23S 🗧	37E	674307	3581663	244	08-Jul-13	3,326	41
2	CP 00142	PLS	15	R.D. SIMS	1	2	1	34 2	22S	37E	673704	3581247	509	31-Dec-38	3,333	1
3	CP 00141	PDM	3	R.D. SIMS	4	4	4	27 2	22S	37E	674701	3581464	536	31-Dec-09	3,322	1
4	CP 00243	UNI	32	VERSADO GAS PROCESSORS LLC	1	2	3	27 2	22S	37E	673690	3582051	752	17-Jan-02	3,335	54
5	CP 00009	IND	32	SKELLY OIL COMPANY	4	4	1	27 2	22S	37E	673883	3582253	835	17-Jan-02	3,340	52
9	CP 01157	DOM	1	<b>BETHANY SKILES</b>	1	1	1	34 2	22S	37E	673324	3581348	847	02-Apr-13	3,339	1
7	CP 00143	PLS	1	R.D. SIMS	1	1	4	34 2	22S	37E	674121	3580450	1,017	31-Dec-36	3,329	1
8	CP 00445	PRO	6.5	HAROLD E. JOHNSON	2	1	2	27 2	22S	37E	674277	3582863	1,401	I	3,340	1
6	CP 00384	PLS	5	WILLIAM E. JOHNSTON	2	2	1	27 2	22S	37E	673875	3582855	1,418	-	3,348	1
10	CP 00144	IRR	18	R.D. SIMS	2	4	1	35 2	22S	37E	675520	3580874	1,479	31-Dec-22	3,313	57
11	CP 00146	COM	5	R.D. SIMS	3	1	2	35 2	22S	37E	675715	3581083	1,597	31-Dec-48	3,318	67
12	CP 00382	PDL	5	WILLIAM E. JOHNSTON	3	3	4	22 2	22S 🗧	37E	674070	3583065	1,601	-	3,345	-
* = Da	ta obtained from the New I	Mexico C	Office of the S	State Engineer Website (http://iwaters.ose.sta	te.nm.u:	s:700	1/iW,	ATER	S/wr_R	legisSe.	rvlet1)					

 $^{C}$  = Elevation interpolated from Google Earth based on referenced location.  $^{B}$  = In meters  $^{A}$  = In acre feet per annum

MON = Monitoring Well  $\aleph$  -- = Data not provided

PDL = Non 72-12-1 Domestic & livestock DOM = 72-12-1 Domestic one household PDL = Ni PRO = 72-12-1 Prospecticing or development of a natural resource IRR = Irrigation COM = Commercial

PLS = Non 72-12-1 Livestock watering PDM = Non 72-12-1 Domestic

IND = Industrial

quarters are 1=NW, 2=NE, 3=SW, 4=SE; quarters are smallest to biggest

# Summary of Soil Sample Field Testing and Laboratory Analytical Results

## Legacy, L.P.

## LMPSU 1 CTB

Chloride (mg/Kg)	:	-	368	:	:	1	:		-	:		304	:		496	:	32
Total TPH (mg/Kg)	1			1	1	1	1	1	ł	1	-	-	ł	1		1	1
DRO C10-C28 (mg/Kg)	ł	-	-	I	I	I	I	I	I	I	I	1	I	I	-	1	I
GRO C6-C10 (mg/Kg)	ł	-	-	I	I	I	I	I	I	I	I	1	I	I	-	1	I
Total BTEX (mg/Kg)	1	-		I	1	ł	1	1	I	I	1	-	I	I		1	ł
Total Xylenes (mg/Kg)	1	-	-	1	1	1	1	1	1	1	1	-	1	1	-	1	1
Ethylbenzene (mg/Kg)	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1
Toluene (mg/Kg)	ł	-	1	I	I	I	I	1	ł	I	1	1	1	I	-	1	ł
Benzene (mg/Kg)	ł	-	1	1	ł	ł	ł	ł	I	I	1	1	1	1	1	1	1
Field Chloride (mg/Kg)	4,000	320	480	3,480	1,280	1,200	880	1,200	1,360	2,080	800	400	2,400	400	400	4,000	80
PID Reading (ppm)	:	-		:	:	1	:	1	1	3.1	5.6	4.2	1	-	-	:	1
Sample Date	21-Dec-16	04-Jan-17	04-Jan-17	21-Dec-16	04-Jan-17	04-Jan-17	04-Jan-17	04-Jan-17	04-Jan-17	05-Jan-17	05-Jan-17	05-Jan-17	21-Dec-16	04-Jan-17	04-Jan-17	21-Dec-16	04-Jan-17
Soil Status	In Situ																
Depth (feet)	Surface	2	4	Surface	2	4	9	8	10	12	18	22	Surface	2	4	Surface	2
Lab Sample ID		SP1						SP2						SP3		CDA	+ 10

# Summary of Soil Sample Field Testing and Laboratory Analytical Results

## Legacy, L.P.

## LMPSU 1 CTB

Chloride (mg/Kg)	-	32	1	224	1	-	1	1	-	128	64	1	32	16	1	32
Total TPH (mg/Kg)		ł	-				ł			ł	-	ł	ł			
DRO C10-C28 (mg/Kg)	-	ł	ł	-	-	-	-	ł	-	ł	1	-	ł	-	ł	-
GRO C6-C10 (mg/Kg)		ł	ł				ł			ł	-	ł	ł	-		
Total BTEX (mg/Kg)		ł	ł	-	-	-	-	1	-	ł	1	-	!	-	ł	-
Total Xylenes (mg/Kg)		!	1	-	-	-	1	1	-	1	:	1	1	1	1	-
Ethylbenzene (mg/Kg)	-	:	1	-	1	1		1	-	:	-		:	-	1	-
Toluene (mg/Kg)		ł	ł	-	-	-	-	1	-	ł	-	-	1	-	I	
Benzene (mg/Kg)		ł	1				ł		-	ł	1	ł	1	-	-	
Field Chloride (mg/Kg)	3,120	80	80	320	640	640	1,040	800	800	160	80	80	80	80	80	80
PID Reading (ppm)		!	1		-	-	-	1	-	1	0.0	0.0	0.0	0.1	0.0	0.0
Sample Date	21-Dec-16	04-Jan-17	04-Jan-17	04-Jan-17	04-Jan-17	04-Jan-17	04-Jan-17	04-Jan-17	04-Jan-17	05-Jan-17	06-Mar-17	06-Mar-17	06-Mar-17	06-Mar-17	06-Mar-17	06-Mar-17
Soil Status	In Situ	In Situ	In Situ	In Situ	In Situ	In Situ	In Situ	In Situ	In Situ	In Situ	In Situ	In Situ	In Situ	In Situ	In Situ	In Situ
Depth (feet)	Surface	2	2	4	2	4	6	8	10	14	Surface	1	2	Surface	1	2
Lab Sample ID	SDS	C I C	9 <b>0</b> 3	0.16			LQS	317				IHdS			SPH2	

# Summary of Soil Sample Field Testing and Laboratory Analytical Results

## Legacy, L.P. LMPSU 1 CTB

Chloride (mg/Kg)	16	1	16	16	1	32	16	1	16	32	1	32	80	1	32	16	-	<16.0
Total TPH (mg/Kg)	1	-		ł	1		1	-		-	1	-	ł	ł		1		ł
DRO C10-C28 (mg/Kg)	-	I	-	I	I	-	1	1	-	-	I	1	I	I	-	-	-	I
GRO C6-C10 (mg/Kg)				1			1				-	1	ł	ł	-	-		ł
Total BTEX (mg/Kg)	-	1		I	I		1	-		-	I	-	I	I		-	-	ł
Total Xylenes (mg/Kg)	-	-	-	1	-		:	-	-	:	1	-	1	1		:	-	1
Ethylbenzene (mg/Kg)	:	1	-	1	1	-	1	1	-	1	1		;	1	-	1	1	1
Toluene (mg/Kg)	1	1	-	ł	ł	-	1	1	-	-	ł	-	ł	I		1	-	ł
Benzene (mg/Kg)	-	I	-	I	I	-	1	1	-	-	I	1	I	I	-	-	-	I
Field Chloride (mg/Kg)	80	80	80	80	80	80	80	80	80	80	80	80	160	80	80	80	80	80
PID Reading (ppm)	0.0	0.0	0.2	0.0	0.0	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Sample Date	06-Mar-17																	
Soil Status	In Situ																	
Depth (feet)	Surface	1	2															
Lab Sample ID		SPH3			SPH4			SPH5			SPH6			SPH7			SPH8	

# Summary of Soil Sample Field Testing and Laboratory Analytical Results

### Legacy, L.P.

## LMPSU 1 CTB

oride (/Kg)	32		32	9		9	50
Chl. (mg	(1)			[		[	2
Total TPH (mg/Kg)	-	-	-	ł	ł		100
DRO C10-C28 (mg/Kg)				-	-		
GRO C6-C10 (mg/Kg)		-		-	1		
Total BTEX (mg/Kg)	-	1	1	1	ł	-	50
Total Xylenes (mg/Kg)	1	1	-	1	ł	ł	
Ethylbenzene (mg/Kg)	1	1	1	-	1	1	
Toluene (mg/Kg)		1	-	-	ł		
Benzene (mg/Kg)	-	I	-	1	I	-	10
Field Chloride (mg/Kg)	08	08	80	80	80	08	
PID Reading (ppm)	0.0	0.1	0.0	0.0	0.0	0.0	100
Sample Date	06-Mar-17	06-Mar-17	06-Mar-17	06-Mar-17	06-Mar-17	06-Mar-17	dial Action
Soil Status	In Situ	evels					
Depth (feet)	Surface	1	2	Surface	1	2	Recomme La
Lab Sample ID		6HdS			SPH10		NMOCD

- - = Not Analyzed **Bold** values are in excess of NMOCD Recommended Remedial Action Levels

#### ATTACHMENTS

#### ATTACHMENT I Photographs



Photograph #1- Point of release



Photograph #2- Looking across release area.



Photograph #3- Looking across release area.



Photograph #4- Looking across release area.



Photograph #5- Looking across release area.



Photograph #6- Looking across release area.



Photograph #7- Looking across release area.



Photograph #8- Looking across release area.

#### ATTACHMENT II NMOSE Average Depth to Groundwater



#### 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)	J,	(qua (qua	irter	rs a rs a	are 1 are s	=NW malles	2=NE 3 st to lar	3=SW 4=SE gest) (N/	) AD83 UTM in me	eters)	(1	In feet)	
	POD		0	0	0							Donth	Donth	Motor
POD Number CP 01177 POD1	Code basin (	Coun LE	ty 64 2	16 2	<b>4</b> 4	<b>Sec</b> 04	<b>Tws</b> 23S	<b>Rng</b> 37E	<b>X</b> 674308	<b>Y</b> 3581663 🌍	Distance 244	Well 60	Water 41	Column 19
CP 00142 POD1		LE	1	2	1	34	22S	37E	673704	3581247* 🌍	509	350		
CP 00141 POD1		LE	4	4	4	27	22S	37E	674701	3581464* 🌍	536	41		
CP 00244 POD1	CP	LE	4	3	3	27	22S	37E	673495	3581442* 🌍	669	150		
CP 00007 POD1	CP	LE				27	22S	37E	673999	3582146* 🌍	699	182		
CP 00009 POD1	CP	LE				27	22S	37E	673999	3582146* 🌍	699	150		
CP 00010 POD1	СР	LE				27	22S	37E	673999	3582146* 🌍	699	135		
CP 00011 POD1	СР	LE				27	22S	37E	673999	3582146* 🌍	699	148		
CP 00233 POD2	СР	LE	1	2	3	27	22S	37E	673690	3582051* 🌍	752	90		
CP 00243 POD2	СР	LE	1	2	3	27	22S	37E	673690	3582051* 🌍	752	90	54	36
CP 00232 POD1	СР	LE	4	1	3	27	22S	37E	673488	3581844* 🌍	774	150		
CP 00233 POD1	СР	LE	4	1	3	27	22S	37E	673488	3581844* 🌍	774	182		
CP 00009 POD2	СР	LE	4	4	1	27	22S	37E	673883	3582253* 🌍	835	90	52	38
CP 00231 POD2	СР	LE	4	4	1	27	22S	37E	673883	3582253* 🌍	835	97		
CP 01157 POD1		LE	1	1	1	34	22S	37E	673325	3581348 🌍	847	143		
CP 00247 POD1	СР	LE	1	3	3	27	22S	37E	673295	3581642* 🌍	886	100		
CP 00244 POD2	СР	LE	3	4	1	27	22S	37E	673683	3582253* 🌍	922	87		
CP 00231 POD1	СР	LE	3	1	3	27	22S	37E	673288	3581844* 🌍	954	145		
CP 00234 POD1	СР	LE	3	1	3	27	22S	37E	673288	3581844* 🌍	954	135		
CP 00143 POD1		LE	1	1	4	34	22S	37E	674121	3580450* 🌍	1017	140		
CP 00243 POD1	СР	LE	3	3	1	27	22S	37E	673281	3582246* 🌍	1178	106		
CP 00747 POD1	СР	LE			1	27	22S	37E	673583	3582548* 🌍	1227	410		
CP 00144 POD1	СР	LE	2	4	1	35	22S	37E	675520	3580874* 🌍	1479	73	57	16
CP 00146 POD1	СР	LE	3	1	2	35	22S	37E	675715	3581083* 🌍	1597	75	67	8
CP 00257 POD1	СР	LE	3	3	3	22	22S	37E	673266	3583050* 🌍	1820	136		
<u>CP 00561</u>		LE	3	3	3	34	22S	37E	673324	3579834* 🌍	1835	137	60	77

\*UTM location was derived from PLSS - see Help

(A CLW##### in the	(R=PC	DD has	d												
POD has been replaced	O=orp	haned,	.,												
& no longer serves a water right file.)	C=the closed	file is I)	(	(qua (qua	rte rte	rs a rs a	are 1 are si	=NW malles	2=NE 3 st to lar	3=SW 4=SE gest) (N	E) IAD83 UTM in m	eters)	(	n feet)	
		POD													
POD Number	Code	Sub- basin	County	Q y 64	Q 16	Q 4	Sec	Tws	Rng	х	Y	Distance	Depth Well	Depth Water	Water Column
CP 00003 POD1		CP	LE			4	22	22S	37E	674372	3583367* 🌍	1911	142	110	32
CP 00395 POD1		СР	LE	4	2	3	28	22S	37E	672282	3581822* 🌍	1915	90		
<u>CP 00911</u>			LE	4	4	4	21	22S	37E	673064	3583043* 🌍	1922	153		
CP 00545			LE	3	2	2	35	22S	37E	676117	3581091* 🌍	1988	70	35	35
CP 00256 POD1	R	СР	LE	1	3	3	22	22S	37E	673266	3583250* 🌍	1997	146		
											Avera	ige Depth to	Water:	59	feet
												Minimum	Depth:	35	feet
												Maximum	Depth:	110	feet
Record Count: 31				_											

#### UTMNAD83 Radius Search (in meters):

Easting (X): 674164.28

Northing (Y): 3581466.38

Radius: 2000

#### \*UTM location was derived from PLSS - see Help

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

#### ATTACHMENT III Laboratory Analytical Results



January 12, 2017

Daniel Dominguez Environmental Plus, Inc.

P.O. Box 1558

Eunice, NM 88231

RE: LMPSU 1 CTB

Enclosed are the results of analyses for samples received by the laboratory on 01/06/17 15:44.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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



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

Received:	01/06/2017	Sampling Date:	01/04/2017
Reported:	01/12/2017	Sampling Type:	Soil
Project Name:	LMPSU 1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-O SEC. 27, T22S, R37E		

#### Sample ID: SP 1 (4') (H700051-01)

Chloride, SM4500CI-B	mg/	kg	Analyzed	l By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	01/09/2017	ND	416	104	400	0.00	

#### Sample ID: SP 2 (22') (H700051-02)

Chloride, SM4500Cl-B	mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	01/09/2017	ND	416	104	400	0.00	

#### Sample ID: SP 3 (4') (H700051-03)

Chloride, SM4500Cl-B mg/kg		Analyze	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	01/09/2017	ND	416	104	400	0.00	

#### Sample ID: SP 4 (2') (H700051-04)

Chloride, SM4500Cl-B	mg/k	g	Analyzed	By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/09/2017	ND	416	104	400	0.00	

#### **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 sample identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keine



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

Received:	01/06/2017	Sampling Date:	01/04/2017
Reported:	01/12/2017	Sampling Type:	Soil
Project Name:	LMPSU 1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	UL-O SEC. 27, T22S, R37E		

#### Sample ID: SP 5 (2') (H700051-05)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/09/2017	ND	416	104	400	0.00	

#### Sample ID: SP 6 (4') (H700051-06)

nloride, SM4500Cl-B mg/kg		Analyze	d By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	01/09/2017	ND	416	104	400	0.00	

#### Sample ID: SP 7 (14') (H700051-07)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/09/2017	ND	400	100	400	3.92	QR-03

#### **Cardinal Laboratories**

\*=Accredited Analyte

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Celeg D. Keine



#### **Notes and Definitions**

QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any daim 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 whose shall be deemed waived unless of use, or loss of profits 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.

Celeg D. Keine

Relinquished by:	Sampler Relinquished:	10	6	8	7	9	01 +	4	ו ג	2	1	LAB I.D.		<b>EPI Sampler Nam</b>	Project Reference	Location	Facility Name	Client Company	EPI Phone#/Fax#	City, State, Zip	Mailing Address	EPI Project Manag	Company Name	(575) 394-3481 F	2100 Avenue O, Ei	Environm	
4-15 -2.30 Sap	Date 1/6/17				SP7 (14')	SP6 (4')	SP5 (2')	SP4 (2')	SP3 (4")	SP2 (22')	SP1 (4")	SAMPLE I.D.		e David Robinson		UL-0 Sec. 27, T22S	LMPSU 1 CTB	Legacy LP	575-394-3481 / 575-3	Eunice New Mexico	P.O. BOX 1558	Jer Daniel Dominguez	Environmental Plus	AX: (575) 394-2601	unice, NM 88231	ental Plus, Inc.	
Pile Code	Rec	F	t		G	G	G	G	G	G	G	(G)RAB OR (C)OM	P.	1		R37			94-2	8823			Inc.		P.O.		
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Page 1 of 1

Page 5 of 5



March 09, 2017

Daniel Dominguez Environmental Plus, Inc. P.O. Box 1558

Eunice, NM 88231

RE: LMPSU 1 CTB

Enclosed are the results of analyses for samples received by the laboratory on 03/07/17 15:31.

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 <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

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



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

Received:	03/07/2017	Sampling Date:	03/06/2017
Reported:	03/09/2017	Sampling Type:	Soil
Project Name:	LMPSU 1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL-O SEC. 27, T22S, R37E		

#### Sample ID: SPH1 (SURFACE) (H700584-01)

Chloride, SM4500Cl-B mg/kg		Analyzed	By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	03/08/2017	ND	448	112	400	0.00	

#### Sample ID: SPH1 (2') (H700584-02)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/08/2017	ND	448	112	400	0.00	

#### Sample ID: SPH2 (SURFACE) (H700584-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/08/2017	ND	448	112	400	0.00	

#### Sample ID: SPH2 (2') (H700584-04)

Chloride, SM4500CI-B	mg	/kg	Analyze	l By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/08/2017	ND	448	112	400	0.00	

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\*=Accredited Analyte

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

Received:	03/07/2017	Sampling Date:	03/06/2017
Reported:	03/09/2017	Sampling Type:	Soil
Project Name:	LMPSU 1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL-O SEC. 27, T22S, R37E		

#### Sample ID: SPH3 (SURFACE) (H700584-05)

Chloride, SM4500Cl-B mg/kg		kg	Analyzed	l By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/08/2017	ND	448	112	400	0.00	

#### Sample ID: SPH3 (2') (H700584-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/09/2017	ND	480	120	400	3.39	

#### Sample ID: SPH4 (SURFACE) (H700584-07)

Chloride, SM4500Cl-B		kg	Analyzed	By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/09/2017	ND	480	120	400	3.39	

#### Sample ID: SPH4 (2') (H700584-08)

Chloride, SM4500Cl-B mg/k		/kg	kg Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/09/2017	ND	480	120	400	3.39	

#### Sample ID: SPH5 (SURFACE) (H700584-09)

Chloride, SM4500Cl-B	/kg	Analyzed By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/09/2017	ND	480	120	400	3.39	

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Received:	03/07/2017	Sampling Date:	03/06/2017
Reported:	03/09/2017	Sampling Type:	Soil
Project Name:	LMPSU 1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL-O SEC. 27, T22S, R37E		

#### Sample ID: SPH5 (2') (H700584-10)

Chloride, SM4500Cl-B	mg/l	kg	Analyzed	By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	16.0	16.0	03/09/2017	ND	480	120	400	3.39			

#### Sample ID: SPH6 (SURFACE) (H700584-11)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/09/2017	ND	480	120	400	3.39	

#### Sample ID: SPH6 (2') (H700584-12)

Chloride, SM4500Cl-B	mg/l	g	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/09/2017	ND	480	120	400	3.39	

#### Sample ID: SPH7 (SURFACE) (H700584-13)

Chloride, SM4500Cl-B	mg/l	kg	Analyzed	By: AC							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier		
Chloride	80.0	16.0	03/09/2017	ND	480	120	400	3.39			

#### Sample ID: SPH7 (2') (H700584-14)

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/09/2017	ND	480	120	400	3.39	

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Received:	03/07/2017	Sampling Date:	03/06/2017
Reported:	03/09/2017	Sampling Type:	Soil
Project Name:	LMPSU 1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL-O SEC. 27, T22S, R37E		

#### Sample ID: SPH8 (SURFACE) (H700584-15)

Chloride, SM4500CI-B	mg/kg Analyzed By: AC								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/09/2017	ND	480	120	400	3.39	

#### Sample ID: SPH8 (2') (H700584-16)

Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/09/2017	ND	480	120	400	3.39	

#### Sample ID: SPH9 (SURFACE) (H700584-17)

Chloride, SM4500Cl-B	e, SM4500Cl-B mg/kg								
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/09/2017	ND	480	120	400	3.39	

#### Sample ID: SPH9 (2') (H700584-18)

Chloride, SM4500Cl-B	mg/	kg	Analyzed	By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	03/09/2017	ND	480	120	400	3.39	

#### Sample ID: SPH10 (SURFACE) (H700584-19)

Chloride, SM4500CI-B	M4500Cl-B mg/kg		Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/09/2017	ND	480	120	400	3.39	

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

Received:	03/07/2017	Sampling Date:	03/06/2017
Reported:	03/09/2017	Sampling Type:	Soil
Project Name:	LMPSU 1 CTB	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	UL-O SEC. 27, T22S, R37E		

#### Sample ID: SPH10 (2') (H700584-20)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/09/2017	ND	480	120	400	3.39	

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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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Bank B221     P.O. Box 1558, Eunice, NM 88231       Environmental Plus, Inc.     Bill To       Daniel Dominguez     P.O. BOX 1558       F.O. BOX 1558     Builton       Eunice New Mexico 88331     Sample Contrained and the second an	David Robinson     Bit Formula Plus, Inc.     Bit Formula Plus, Inc.     Bit Formula Plus, Inc.     ANALYSIS REQUEST       Environmental Plus, Inc.     David Robinson     Bit Formula Plus, Inc.     Bit Formula Plus, Inc.     ANALYSIS REQUEST       Lugary Lur     Formula Plus, Inc.     Bit Formula Plus, Inc.     Bit Formula Plus, Inc.     ANALYSIS REQUEST       Lugary Lur     Formula Plus, Inc.     Bit Formula Plus, Inc.     Analysis Reputer       Lugary Lur     Constant Plus, Inc.     Formula Plus, Inc.     Anne Plus, Inc.       Lugary Lur     David Robinson     Matrix     Presserv.     SAMPLING       P.O. Box 1558     Eunice, MM 88231     Formula Plus, Inc.     Matrix       David Robinson     Matrix     Presserv.     SAMPLING       P.O. Box 1558     Eunice, MM 88231     Formula Plus, Inc.     Matrix       David Robinson     Matrix     Presserv.     SAMPLING       P.O. Box 1558     Eunice, MM 8231     Formula Plus, Inc.     Formula Plus, Inc.       11(27)     G G 1     X / Ground Watter     Formula Plus, Inc.     Formula Plus, Inc.       12(20)     G G 1     X / Ground Watter     Formula Plus, Inc.     Formula Plus, Inc.       12(20)     G G 1     X / Ground Watter     Formula Plus, Inc.     Formula Plus, Inc.       12(20)     G 1     X / Gro	Bit All Linus, Linu:     P.O. Box 1558, Eunice, NM 88231     Eunice New 88231     To main formingues       Carbon Commental Plus, Inc.     Daniel Domningues     Attact XSIS REQUEST     Attact XSIS REQUEST       Daniel Domningues     Fig. 394-2601     Attact XSIS REQUEST     Attact XSIS REQUEST       Lagery Lip     Fig. 394-2601     Fig. 394-2601     Fig. 394-2601     Fig. 394-2601       Lagery Lip     Fig. 394-2601     Fig. 394-2601     Fig. 394-2601     Fig. 394-2601       Lugery Lip     Fig. 394-2601     Fig. 394-2601     Fig. 394-2601     Fig. 394-2601       Lugery Lip     Fig. 394-2601     Fig. 394-2601     Fig. 394-2601     Fig. 394-2601       Lugery Lip     Sample Lip.     Attact X     Fig. 394-2601     Fig. 394-2601       Lugery Lip     Fig. 394-2601     Fig. 394-2601     Fig. 394-2601     Fig. 394-2601       Lugery Lip     Fig. 394-2601     Fig. 394-2601     Fig. 394-2601     Fig. 394-2601       Lugery Lip     Fig. 394-2601     Fig. 394-2601     Fig. 394-2601     Fig. 394-2601       Sample Lip.     G G 1 G X AB OR (C)OMP.     Fig. 394-2601     Fig. 394-2601     Fig. 394-2601       Sample Lip.     G G 1 G X AB OR (C)OMP.     Fig. 394-261     Fig. 394-261     Fig. 394-261       Sample Fig. 301     G G 1 G X AB OR (C)OMP.     Fig. 394-261     Fig. 39	If all Fills, P.O. Box 1558, Eunice, NM 88231       David Robinguez       Bit To       ANALYSIS REQUEST         Environmental Plus, Inc.       David Robinguez       David Robinguez       P.O. BOX 1568       ANALYSIS REQUEST         Environmental Plus, Inc.       Bit To       ANALYSIS REQUEST       Annotation Representation Representatio Representation Representation Representation Representation Repr	Sampler Relinquished:	10 SPI	9 SPI	8 SPH	7 SPH	6 SPH	5 SPH	4 SPH	2 OF 11		HJROS HT	LAB I.D.	Et l'Oumproi - renne	Project Reference	Location	Facility Name	Client Company	EPI Phone#/Fax#	City, State, Zip	Mailing Address	EPI Project Manager	Company Name	575) 394-3481 FAX:	Environmei 2100 Avenue O. Eunic
P.O. Box 1558, Eunice, NM 88231 B8231 B8231 B8231 B8231 B8231 B8231 B4-2601	P.O. Box 1558, Eunice, NM 88231     Bill To     ANALYSIS REQUES       10::::::::::::::::::::::::::::::::::::	P.O. Box 1558, Eunice, NM 88231     Bill To     And LYSIS RECUEST       1nc.     Bill To     Antr. Daniel Dominguez P.O. Box 1558     P.O. Box 1558       28/2601     Attn: Daniel Dominguez P.O. Box 1558     P.O. Box 1558       Eunice, NM 88231     Eunice, NM 88231     Eunice, NM 88231       R37E     MATRIX P.O. Box 1558     P.O. Box 1558       Eunice, NM 88231     Eunice, NM 88231     Eunice, NM 88231       Eunice, NM 88231     P.O. Box 1558     Eunice, NM 88231       Eunice, NM 88231     P.O. Box 1558     Eunice, NM 88231       Eunice, NM 88231     P.O. Box 1558     Eunice, NM 88231       Eunice, NM 88231     P.O. Box 1558     Eunice, NM 88231       Eunice, NM 88231     P.O. Box 1558     Eunice, NM 88231       Eunice, NM 88231     P.O. Box 1558     Eunice, NM 88231       G G 1 1     A X 1     OF-Mar-17     T.HE       G 1 1     A X 1     OF-Mar-17     T.HE       G 1 1     A X 1     OF-Mar-17     BTEX 8021B       G 1 1     A X 1     OF-Mar-17     BTEX 8021B       G 1 1     A X 1     OF-Mar-17     BTEX 8021B       G 1 1     A X 1     OF-Mar-17     BTEX 8021B       G 1 1     A X 1     OF-Mar-17     BTEX 8021B       G 1 1     A X 1     OF-Mar-17     BTEX 8	Inc.     Bit To     ANLYSIS     Cardinal       100-100     100	Date 3/7/17 Time 6:00 and Date 3/7/17 Time 3:3/	45 (2")	15 (Surface)	<del>1</del> 4 (2')	14 (Surface)	13 (2')	13 (Surface)	12 (2")	17 (Surface)	(	11 (Sunface)	SAMPLE I.D.		David Robinson	UL-U Sec. 27, 1220,	LMPSU 1 CIB	Legacy LP	575-394-3481 / 575-3	Eunice New Mexico	P.O. BOX 1558	Daniel Dominguez	Environmental Plus,	(575) 394-2601	ce, NM 88231
Box 1558, Eunice, NM 88231	Bit To     ANALYSIS     Cardinal Contrainees       31	Bit To     All To     All To     All To     All To       Bit To     Bit To     All To     All To     All To       Bit To     Attn: Daniel Dominguez     P.O. Box 1558     P.O. Box 1558       P.O. Box 1558     Eunice, NM 88231     Eunice, NM 88231       Eunice, NM 88231     PRESERV     SAMPLING       MATRIX     PRESERV     SAMPLING       P.O. Box 1558     Eunice, NM 88231     Eunice, NM 88231       Eunice, NM 88231     PRESERV     SAMPLING       MATRIX     PRESERV     SAMPLING       MATRIX     PRESERV     SAMPLING       MATRIX     PRESERV     SAMPLING       Eunice, NM 88231     Intervice of the second seco	Box 1558, Eunice, NM 88231 Bit To Bit To Attn: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231 Eunice, NM 8231 Eunice, NM	Rec	G	G	G	6	G	G	G	6	G	G (	G)RAB OR (C)OMP				227		94-2	788	8		Inc.		P.O.
Bill To Bill To Attn: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231 Attn: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231 PRESERV. SAMPLIN NOTHER: SOIL GROUND WATER Attn: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231 Attn: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231 Attn: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231 P.O. Box 1558 Eunice, NM 8523 Eunice, NM 8523 Eunice, NM 8523 Eunice, NM 85	Bill To     Attn:: Daniel Dominguez P.O. Box 1558     Attn:: Daniel Dominguez P.O. Box 1558     Attn:: Daniel Dominguez P.O. Box 1558       Eunice, NM 88231     MATRIX     PRESERV.     SAMPLING       MATRIX     SOIL     DATE       TIME     SAMPLING       MATRIX     GROUND WATER       MATRIX     SOIL       DATE     TIME       SAMPLING     DATE       TAX     OGE-Mar-17       ZX     OGE-Mar-17       ZX     OGE-Mar-17       S33     XX       ZX     OGE-Mar-17       S33     XX       ZX     OGE-Mar-17       S33     XX       ZX     OGE-Mar-17       ZX     OGE-Mar-17	Bill To     ALTCR:     ALTCR: </td <td>BIT To     ANALYSIS     Cardinal Convergence       BIT To     ANALYSIS     ANALYSIS     Cardinal Convergence       Attn: Daniel Dominguez P.O. Box 1558     P.O. Box 1558     Eunice, NM 88231     Attn: Daniel Dominguez P.O. Box 1558       Eunice, NM 88231     PRESERV:     SAMPLING     SAMPLING       Attn: Daniel Dominguez P.O. Box 1558     P.O. Box 1558     Eunice, NM 88231       Eunice, NM 88231     PRESERV:     SAMPLING       Attn: Daniel Dominguez P.O. Box 1558     P.O. Box 1558     Eunice, NM 88231       Eunice, NM 88231     PRESERV:     SAMPLING       Attn: Daniel Dominguez P.O. Box 1558     P.O. Box 1558     Eunice, NM 88231       Eunice, NM 88231     P.O. Box 1558     Eunice, NM 88231       Eunice, NM 88231     P.O. Box 1558     Eunice, NM 88231     Attributer       Eunice, NM 88231     P.O. Box 1558     Eunice, NM 88231     Eunice, NM 88231       Eunice, NM 88231     P.O. Box 1558     Eunice, NM 88231     Eunice, NM 88231       Eunice, NM 8231     OG-Mar-17     7:41     BTEX 8021B       TPH 8015M     X // OG-Mar-17     B:17     X // OG-Mar-17       VIEW     OG-Mar-17     B:18     X // OG-Mar-17     B:18       VIEW     VIEW     VIEW     VIEW     VIEW       VIEW     VIEW     VIEW     VIEW<!--</td--><td>ceived</td><td>5</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td>-</td><td></td><td># CONTAINERS</td><td></td><td></td><td>1</td><td>ñ</td><td></td><td>109</td><td>5</td><td></td><td></td><td>ľ</td><td></td><td>Bo</td></td>	BIT To     ANALYSIS     Cardinal Convergence       BIT To     ANALYSIS     ANALYSIS     Cardinal Convergence       Attn: Daniel Dominguez P.O. Box 1558     P.O. Box 1558     Eunice, NM 88231     Attn: Daniel Dominguez P.O. Box 1558       Eunice, NM 88231     PRESERV:     SAMPLING     SAMPLING       Attn: Daniel Dominguez P.O. Box 1558     P.O. Box 1558     Eunice, NM 88231       Eunice, NM 88231     PRESERV:     SAMPLING       Attn: Daniel Dominguez P.O. Box 1558     P.O. Box 1558     Eunice, NM 88231       Eunice, NM 88231     PRESERV:     SAMPLING       Attn: Daniel Dominguez P.O. Box 1558     P.O. Box 1558     Eunice, NM 88231       Eunice, NM 88231     P.O. Box 1558     Eunice, NM 88231       Eunice, NM 88231     P.O. Box 1558     Eunice, NM 88231     Attributer       Eunice, NM 88231     P.O. Box 1558     Eunice, NM 88231     Eunice, NM 88231       Eunice, NM 88231     P.O. Box 1558     Eunice, NM 88231     Eunice, NM 88231       Eunice, NM 8231     OG-Mar-17     7:41     BTEX 8021B       TPH 8015M     X // OG-Mar-17     B:17     X // OG-Mar-17       VIEW     OG-Mar-17     B:18     X // OG-Mar-17     B:18       VIEW     VIEW     VIEW     VIEW     VIEW       VIEW     VIEW     VIEW     VIEW </td <td>ceived</td> <td>5</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> <td></td> <td># CONTAINERS</td> <td></td> <td></td> <td>1</td> <td>ñ</td> <td></td> <td>109</td> <td>5</td> <td></td> <td></td> <td>ľ</td> <td></td> <td>Bo</td>	ceived	5	-	-	-	-	-	-	-	-		# CONTAINERS			1	ñ		109	5			ľ		Bo
Bill To Bill To Attn: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231 MATRIX NATER N	558, Eunice, NM 88231     Lase     Cardinal Control       Bill To     Attn: Daniel Dominguez P.O. Box 1568     Attn: Daniel Dominguez P.O. Box 1568     P.O. Box 1568       Eunice, NM 88231     PRESERV.     SAMPLING       MATRIX     OG-Mar-17     7:41       BITE     N     S12       X     OG-Mar-17     8:37       X     OG-Mar-17     8:37       X     OG-Mar-17     9:26       X     OG-Mar-17	558, Eunice, NM 88237     LAB     Cardinal       Introduction of the state of t	558, Eunice, MM 88237     LAB     Attr. Danie Dominguez P. O. Box 1558 Eunice, MM 88231       MATRIX     PRESERV.     SAMPLING       MATRIX     PRESERV.     SAMPLING       MATRIX     PRESERV.     SAMPLING       Lunice, MM 88231     DATE     Index 1000000000000000000000000000000000000	By By	F	t	F	t	T	П				T	GROUND WATER						1						x 1
Bill To       Bill To       Attn: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231       MATRIX       PRESERV.       SOIL       I I CE/COOL       NATE       SOIL       I I CE/COOL       NATE       SOIL       I I CE/COOL       I I CE/COOL       NATE       SOIL       I I CE/COOL       DATE       X I I CE/COOL       DATE       I I CE/COOL       DATE       X I I CE/COOL       DATE       DATE       DATE       DATE       DATE       X I I CE/COOL       DATE       DATE       DATE       DATE       X I I CE/COOL       DATE       X I I	Bill To         Attr: Daniel Dominguez P.O. Box 1568 Eunice, NM 88231         Attr: ST REQUES P.O. Box 1568 Eunice, NM 88231           MATRIX         PRESERV.         SAMPLING           MATRIX         PRESERV.         SAMPLING           NATRIX         PRESERV.         SULDAGE           NATRIX         PRESERV.         SULFATES           NATRIX         OG-Mar-17         7:41           NATRIX         OG-Mar-17         8:10           NATRIX         OG-Mar-17         8:37           NATRIX         OG-Mar-17         9:20           NATRIX         OG-Mar-17         9:22           NATRIX         OG-Mar-17         9:24           NATRIX         OG-Mar-17         9:24           NATRIX         OG-Mar-17         9:24           NATRIX         OG-Mar-17         9:24           NATRIX         OG-Mar-17         9:24 </td <td>Eurice, NM 88231     LAB     Cardinal       Bill To     ALT: Daniel Dominguez P.O. Box 1568 Eunice, NM 88231       P.O. Box 1568 Eunice, NM 88231       Eunice, NM 88231       Attr: Daniel Dominguez P.O. Box 1568       Eunice, NM 88231       Eunice, NM 88231       Attr: Daniel Dominguez P.O. Box 1568       Eunice, NM 88231       Eunice, NM 88231       NATE: P.O. Box 1568       Eunice, NM 88231       Acticities Colspan="2"&gt;Acticities Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"&gt;Colspan="2"Colspa</td> <td>Eurice, NM 88231         LAB         Cardinal           Bill To         ALTR: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231           Attn:: Daniel Dominguez P.O. Box 1558         P.O. Box 1558         Eunice, NM 88231           Eunice, NM 88231         PRESERV         SAMPLING           MATRIX         PRESERV         SAMPLING           NATRIX         OG-Matr-17         7:41           NATRIX         OG-Matr-17         8:12           NATRIX         OG-Matr-17         9:02           NATRIX         OG-Matr-17</td> <td>(lab s</td> <td>F</td> <td>t</td> <td>t</td> <td>t</td> <td>F</td> <td>Π</td> <td></td> <td></td> <td></td> <td></td> <td>WASTEWATER</td> <td></td> <td>558</td>	Eurice, NM 88231     LAB     Cardinal       Bill To     ALT: Daniel Dominguez P.O. Box 1568 Eunice, NM 88231       P.O. Box 1568 Eunice, NM 88231       Eunice, NM 88231       Attr: Daniel Dominguez P.O. Box 1568       Eunice, NM 88231       Eunice, NM 88231       Attr: Daniel Dominguez P.O. Box 1568       Eunice, NM 88231       Eunice, NM 88231       NATE: P.O. Box 1568       Eunice, NM 88231       Acticities Colspan="2">Acticities Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"Colspa	Eurice, NM 88231         LAB         Cardinal           Bill To         ALTR: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231           Attn:: Daniel Dominguez P.O. Box 1558         P.O. Box 1558         Eunice, NM 88231           Eunice, NM 88231         PRESERV         SAMPLING           MATRIX         PRESERV         SAMPLING           NATRIX         OG-Matr-17         7:41           NATRIX         OG-Matr-17         8:12           NATRIX         OG-Matr-17         9:02           NATRIX         OG-Matr-17	(lab s	F	t	t	t	F	Π					WASTEWATER												558
Bill To         Bill To         Attn: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231         FRESERV. SAMPLIN         NOTHER: S LUDGE         O THER: S LUDGE         O THER: S LUDGE         O THER: A CID/BASE         O THER: S LUDGE         O THER: O THER: S LUDGE         O THER: O THER: S LUDGE         O A CID/BASE         D ATE         C A OG-Mar-17	Bill To         ANALYSIS RECUEST           Attn: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231         ANALYSIS RECUEST           P.O. Box 1558 Eunice, NM 88231         PRESERV.         SAMPLING           Attn: Daniel Dominguez         P.O. Box 1558         DATE           V         PRESERV.         SAMPLING           Accid/BASE         DATE         TIME           V         ACID/BASE         DATE           V         ACID/BASE         DATE           V         ACID/BASE         DATE           V         ACID/BASE         DATE           V         OG-Mar-17         7:43           X         OG-Mar-17         8:12           X         OG-Mar-17         8:37           X         OG-Mar-17         9:20           X         OG-Mar-17         9:22           X         OG-Mar-17         9:26           X <t< td=""><td>Index, NM 88231     LAB     Cardinal       Intro     ALTY SIS RECUEST       Attn: Daniel Dominguez P.O. Box 1568 Eunice, NM 88231       Eunice, NM 88231       Intro colspan="2"&gt;Acit Distribution       Acit Di</td><td>Index, NM 88231     LAB     Cardinal       Bill To     Antr: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231     Antr: Daniel Dominguez P.O. Box 1558       FLO, Box 1558     Eunice, NM 8231       Eunice, NM 8231     PRESERV.       SAMPLING     PRESERV.       SAMPLING     DATE       TIME     TIME       BIT To     Antr: Daniel Dominguez       P.O. Box 1558     Eunice, NM 8231       Eunice, NM 8231     Sampling       Eunice, NM 8231</td><td><u>₹</u>≣₹</td><td>Þ</td><td>×</td><td>×</td><td>۲.</td><td>×</td><td>×</td><td>×</td><td>×</td><td>×</td><td>×</td><td>SOIL</td><td>MA</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Ē</td></t<>	Index, NM 88231     LAB     Cardinal       Intro     ALTY SIS RECUEST       Attn: Daniel Dominguez P.O. Box 1568 Eunice, NM 88231       Eunice, NM 88231       Intro colspan="2">Acit Distribution       Acit Di	Index, NM 88231     LAB     Cardinal       Bill To     Antr: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231     Antr: Daniel Dominguez P.O. Box 1558       FLO, Box 1558     Eunice, NM 8231       Eunice, NM 8231     PRESERV.       SAMPLING     PRESERV.       SAMPLING     DATE       TIME     TIME       BIT To     Antr: Daniel Dominguez       P.O. Box 1558     Eunice, NM 8231       Eunice, NM 8231     Sampling       Eunice, NM 8231	<u>₹</u> ≣₹	Þ	×	×	۲.	×	×	×	×	×	×	SOIL	MA											Ē
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Bill To       Bill To       Attn: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231       PRESERV.     SAMPLIN       PRESERV.     SAMPLIN       A CID/BASE     Of HER       OTHER     06-Mar-17       X     06-Mar-17	Bill To         Analysis         Cardinal Control           Attn: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231         Processerv.         Samplus           PRESERV.         SAMPLING         DATE         TIME           PRESERV.         SAMPLING         DATE         TIME           VI X         OG-Mar-17         7:41         B TEX 8021B         DATE           VI X         OG-Mar-17         7:43         I         X         OG-Mar-17           VI X         OG-Mar-17         8:12         X         I         DATE           VI X         OG-Mar-17         8:12         X         I         DATE           VI X         OG-Mar-17         8:12         X         I         DATE           VI X         OG-Mar-17         8:37         X         I         DATE           VI X         OG-Mar-17         8:37         X         I         DATE           VI X         OG-Mar-17         9:00         X         I         I           VI X         OG-Mar-17         9:26         X         I         I           VI X         OG-Mar-17         9:26         X         I         I           VI X         OG-Mar-17         9:26	Bill To         ANALYSIS REQUEST           Attn: Daniel Dominguez P.O. Box 1558 Eunice, NM 88231         Funice, NM 88231           Eunice, NM 88231         SAMPLING           PRESERV.         SAMPLING           PRESERV.         SAMPLING           VICE         SAMPLING           PRESERV.         SAMPLING           VICE         SAMPLING           PRESERV.         SAMPLING           VICE         OG-Mar-17           VICE         SIT           VICE         OG-Mar-17           VICE         VICE           VICE         OG-Mar-17           VICE         VICE	Bill To         Analysis Recuest           Bill To         Analysis Recuest           Attn: Daniel Dominguez         P.O. Box 1558           Eunice, NM 8021         Eunice, NM 8021           PRESERV, SAMPLING         SAMPLING           PRESERV, SAMPLING         DATE           TIME         TIME           SAMPLING         DATE           PRESERV, SAMPLING         DATE           PAL         OG-MAR-177           State         DATE           TIME         BTEX 8021B           BTEX 8021B         BTEX 8021B           State         OG-MAR-17	$\mathbb{R}$	F	t	t	t	t	Н					SLUDGE												e, N
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Bill To           Daniel Dominguez           O. Box 1558           Nice, NM 88231           ESERV.         SAMPLIN           DATE           DATE           X         06-Mar-17	Bill To     ANALYSIS REQUES       Dirice, NM 88231     SAMPLING       ESERV.     SAMPLING       ESERV.     SAMPLING       ESERV.     SAMPLING       ESERV.     SAMPLING       AX     06-Mar-17       7:41     BTEX 8021B       XX     06-Mar-17       YX     06-Mar-17	Bill To         ANALYSIS REQUEST           'aniel Dominguez O. Box 1558 lice, NM 88231         ANALYSIS REQUEST           CO. Box 1558 lice, NM 88231         SAMPLING           ESERV.         SAMPLING           ISERV.         SAMPLING           Aniel Dominguez O. Box 1558 lice, NM 88231           ISERV.         SAMPLING           ESERV.         SAMPLING           ISERV.	Bill To     ANALYSIS REQUEST       'aaniel Dominguez'     O. Box 1558       O. Box 1558     Ice, NM 88231       Iice, NM 88231     Ice, NM 88231       ESERV.     SAMPLING       ESERV.     SAMPLING       Axia     O6-Mar-17       XX     O6-Mar-17       YX     O17       YX     O17 <td></td> <td>F</td> <td>t</td> <td>t</td> <td>t</td> <td>t</td> <td>F</td> <td></td> <td></td> <td></td> <td></td> <td>ACID/BASE</td> <td>PR</td> <td>E</td> <td>P</td> <td></td> <td></td> <td>F</td> <td></td> <td></td> <td></td> <td></td> <td>L</td> <td>823</td>		F	t	t	t	t	F					ACID/BASE	PR	E	P			F					L	823
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Date 3/7/17 Time 6:00 a Date 3/7/17 Time 3:3)	PH10 (2')		PH10 (Surface)	DL0 (2))	PH9 (Surface)		DH8 (Surface)	TI (Sullace)		10(00000)	HR (Surface)	SAMPLE I.D.		David Robinson		UL-0 Sec. 27, T22S	LMPSU 1 CTB	Legacy LP	575-394-3481 / 575-	Eunice New Mexico	P.O. BOX 1558	r Daniel Dominguez	Environmental Plus	(: (575) 394-2601	ice, NM 88231	ntal Plus, Inc.	
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#### ATTACHMENT IV Copy of Initial NMOCD Form C-141

#### **NM OIL CONSERVATION**

ARTESIA DISTRICT

#### DEC 27 2016

API No.

East/West Line

Form C-141 Revised August 8, 2011

Submit 1 Copy to appropriate District Office in

accordance with 19.15.29 NMAC.

**Final Report** 

County Lea

Volume Recovered: 660 barrels

Date and Hour of Discovery: 12/18/16 @ unknown 9:15 Am

lease road and pasture. Surface contamination will be

		ARTES	IA DISTRI
		DEC	27 201
<u>2istrict I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210	State o Energy Mineral	f New Mexico s and Natural Resources <b>RE</b>	CEIVER
<u>District III</u> 1000 Rio Brazos Road, Aztec, NM 87410 <u>District IV</u> 1220 S. St. Francis Dr., Santa Fe, NM 87505	Oil Conse 1220 Sou Santa	ervation Division S th St. Francis Dr. Fe, NM 87505	ubmit 1 Co
<sup>1</sup> AB1436,536260 Releas	e Notification	and Corrective Action	
NAB 1636536488	<b>QPERATO</b>	R 🛛 🛛 Initia	l Report
Name of Company: Legacy, L.P.	244281	Contact: Ernest Barrientez	
Address: P.O. Box 10848 Midland, '	TX 79702	Telephone No. 432-853-06	33
Facility Name: LMPSU 1 CTB		Facility Type: Injection Lin	ne
Surface Owner: Legacy	Mineral Own	ner:	API
	LOCATION	OF RELEASE	
Unit Letter Section Township Range O 27 22S 37E	Feet from the Nor	th/South Line Feet from the Eas	t/West Lind
Latitude	e: <u>N 32.356572°</u> NATURE (	Longitude: <u>W 103.149062°</u> DE RELEASE	
Type of Release: produced water		Volume of Release/ 730 barrels	Volume
Source of Release: injection line failed		Date and Hour of Occurrence:	Date an
Was Immediate Notice Given?	No 🗌 Not Require	If YES, To Whom? d Kristen Lynch, Tomas Oberding,	OCD
By Whom? Legacy		Date and Hour: 12/18/16	
		If YES, Volume Impacting the W	atercourse:
Was a Watercourse Reached?	No	Not Applicable	

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: mest Barnients	OIL CONSERVATION DIVISION
Printed Name: Ernest Barrientez	Approved by Environmental Specialist
Title: Production Foreman	Approval Date: 030 0 Expiration Date: N/A
E-mail Address: cbarrientez@legacylp.com	Conditions of Approval:
Date: Dec, 22, 2016 Phone: 432-853-0633	Reincation is included
Atach Additional Sheets II Needsary	ranking (an be assessed IMP-4508

Appendix C Photographs



Site Location



Site Prior to Remediation Viewing West, November 8, 2017



Site Prior to Remediation Viewing Northeast, November 8, 2017



Site Prior to Remediation Viewing West, November 8, 2017



Site Prior to Remediation Viewing North, September 8, 2017



EPI Photograph Viewing South, October 6, 2017