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Executive Summary

Environmental Plus, Inc. (EPI) was notified by Duke Energy Field Services (DEFS) on 15-Mar-02 regarding a pipeline release site involving DEFS' "A-Line" natural gas gathering pipeline. DEFS' initial C-141 (20-Mar-02) indicates a natural gas liquid (NGL) release of 40 bbl, with 30 bbl recovered. The leak was a result of internal pipeline corrosion. Repairs were made on the steel pipeline by DEFS personnel by clamping.

Characterization and remedial work at the site was done by EPI during the period 15-Mar-02 through 11-Apr-02. The "A-Line 031502" site is located 1.5-mile west of Oil Center, NM, in UL-F, Section 08 T21S R36E. The spill occurred on property owned by the Mr. Billy Sartan, 223 N. Moore, Sulphur Spring, TX 75482. The surface extent of the visibly affected spill area was approximately 10,600 ft² (see Plate 3, attachments). The vertical extent of contamination ranged from 2-ft along the northern portion of the access road down to 10-ft in the area associated with the Point of Release (POR).

EPI excavated and disposed of 1064-yd³ of contaminated soil from the site commencing on 15-Mar-02. Composite bottom-hole and sidewall soil samples were submitted to Cardinal Laboratories, Hobbs, NM on 21-Mar-02, 26-Mar-02, 02-Apr-02 and 04-Apr-02. Results of these analyses confirmed that TPH, BTEX, and Benzene levels were below threshold levels throughout the site, and that chloride levels were within acceptable limits (~250 mg/kg) so as to not pose a threat to any ground water present. Ground water was conservatively estimated to be >150-ft bgs.

All contaminated soil removed from the site was disposed of at EPI's land farm. The excavation was backfilled and contoured to prevent pooling. The surface damaged areas beyond road or pipeline rights-of-way will be evaluated for new growth in Spring-2003 and reseeded with natural grasses if deemed necessary at that time.

1.0 Introduction

This report addresses the site investigation and remediation of the Duke Energy Field Services (DEFS) "A-Line 031502" natural gas gathering line remediation site. EPI was notified on March 15, 2002 by DEFS regarding a natural gas and associated NGL release at this site. The initial C-141 Form submitted to NMOCD (20-Mar-02) reports the release volume (NGL) as 40 bbl with 30 bbl recovered. EPI responded that day and commenced GPS delineation, characterization and preliminary excavation of the contaminated soil in the immediate area of the release. The site ultimately consisted of a shallow (2-3-ft) excavation area of ~10,600-ft² (an 85-ft X 85-ft area near the POR and a narrow ~265-ft northerly flow path along the pipeline access road – *See Plate 3*). A small area (~1200-ft²) in the immediate vicinity of the POR was excavated to a depth of 10-ft bgs to attain soil chloride levels at or below the desired remedial goal of 250 mg/kg. Remedial activities at the site consisted of excavation, soil analyses, backfilling and contouring. Remediation of the site was completed on 11-Apr-02, exclusive of possible re-seeding in Spring-2003.

2.0 Background

The site is associated with the DEFS – A-Line natural gas gathering pipeline terminating at DEFS' Eunice Plant. This release site is located in Unit Letter F, (SE¼ of the NW¼), Section 08, T21S, R36E, ($32^{\circ}29'47.82"N$ and $103^{\circ}17'15.03"W$), and approximately 1.5 miles west of Oil Center, NM. The property is owned by Billy Sartan, residing in Sulphur Spring, TX. A location map, a topographical map of the site and a detailed GPS site map are included as Attachments 1, 2 and 3.

The natural gas and associated NGL release at this site was discovered on 15-Mar-02. The leak was the result of internal pipe corrosion. The pipe was clamped and repaired by DEFS personnel.

3.0 Site Description

3.1 Geological Description

<u>The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and Ground-Water</u> <u>Conditions in Southern Lea County, New Mexico," A. Nicholson and A. Clebsch, 1961</u>, describes the near surface geology of southern Lea County as "an intergrade of the Quaternary Alluvium (QA) sediments, i.e., fine to medium sand, with the mostly eroded Cenozoic Ogallala (CO) formation. Typically, the QA and CO formations in the area are capped by a thick interbed of caliche and generally overlain by sandy soil." The release site is located in the Eunice Plain physiographic subdivision, described by Nicholson & Clebsch as an area "underlain by a hard caliche surface and is almost entirely covered by reddish-brown dune sand". The thickness of the sand cover ranges from 2-5 feet in most areas to as much as 20-30 feet in drift areas.

3.2 Ecological Description

The area is typical of the Upper Chihuahuan Desert Biome consisting primarily of hummocky sand hills covered with Harvard Shin Oak (Querqus harvardi) interspersed with Honey Mesquite (Prosopis glandulosa) along with typical desert grasses, flowering annuals and flowering perennials. Mammals represented, include Orrd's and Merriam's Kangaroo Rat, Deer Mouse, White Throated Wood Rat, Cottontail Rabbit, Black Tailed Jackrabbit, Mule Deer, Bobcat, Red Fox and Coyote. Reptiles, Amphibians, and Birds are numerous and typical of area. A survey of Listed, Threatened, or Endangered species was not conducted.

3.3 Area Ground Water

The unconfined ground water aquifer at this site is conservatively estimated to be >150-ft bgs. The site is located in the Eunice Plain physiographic area approximately 1.5-mile west of Oil Center, NM. Water Column Reports obtained from the Office of the NM State Engineer and NM Tech University (below) indicate water depths in the range 106-247-ft bgs in Range 36E and Township 21S (Average = 191-ft bgs). Ground water gradient in this area is generally to the southeast.

Well	Tws	Rng	Sec	Q	Q	Q	Well Depth	Water Depth	Water Columr
CP734	215	36E	16	1			215	200	15
CP505	21S	36E	16	2			215	195	20
CP676	21S	36E	18	4	4	1	140	106	34
CP664	21S	36E	23	2			185	150	35
CP484	21S	36E	25	4	2	[207	148	59
#4737*	215	36E	29	4	1		305	247	58
#4715*	21S	36E	29	3	1		244	231	13
#4719*	21S	36E	29	4	2		380	241	139
#4584*	215	36E	33	2	3		242	205	37
				Aver	age d	epth to	o water =	191	

3.4 Area Water Wells

All recorded wells are greater than 1000 horizontal feet from the site.

3.5 Area Surface Water Features

No surface water bodies exist within 1000 horizontal feet of the site.

4.0 NMOCD Site Ranking

Contaminant delineation and remedial work done at this site indicate that the chemical parameters of the soil and the physical parameters of the ground water were characterized consistent with the characterization and remediation/abatement goals and objectives set forth in the following New Mexico Oil Conservation Division (NMOCD) publications:

- Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993)
- Unlined Surface Impoundment Closure Guidelines (February 1993)

Acceptable thresholds for contaminants/constituents of concern (CoCs), i.e., TPH^{8015m}, Benzene, and the mass sum of Benzene, Toluene, Ethyl Benzene, and total Xylenes (BTEX), were determined based on the NMOCD Ranking Criteria as follows:

- Depth to Ground water, i.e., distance from the lower most acceptable concentration to the ground water.
- Wellhead Protection Area, i.e., distance from fresh water supply wells.
- Distance to Surface Water Body, i.e., horizontal distance to all down gradient surface water bodies.

Based on the proximity of the site to protectable area water wells, surface water bodies, and depth to ground water from the lower most contamination, the NMOCD ranking score for the site is 0 points with the soil remedial goals highlighted in the Site Ranking Matrix presented below.

1. Grou	nd Water	2. Wellhead	Protection Area	3. Dis	tance to Surface Water					
	W <50 feet: oints		n water source, or; vate domestic water	<200 ho	rizontal feet: 20 points					
•	50 to 99 feet: oints		e: 20 points	200-1	1000 horizontal feet: 10 points					
•	W >100 feet: Dints	>200' from priv	n water source, or; vate domestic water se: 0 points	>1000 h	orizontal feet: <i>0 point</i> s					
Ground Wa	ter Score=0	Wellhead Pro	otection Score= 0	Surface Water Score= 0						
	Site Ran	k (1+2+3) = 0 + 0	+ 0 = 0 points (for	soil 0-50't	ogs)					
	Total Site Ranl	king Score and A	cceptable Remedial	Goal Conc	entrations					
Parameter	20+ (soil 10	0 – 150' bgs)	A (zein Btrien this		0 (soil 0 – 50' bgs					
Benzene ¹	10	ppm	1. 19 miles 1. 19 miles 1. 19 miles		10 ppm					
BTEX	50	ppm	n n , , , , , , , , , , , , , , , , , ,		50 ppm					
TPH	100	ppm	1 X e para	5000 ppm						

5.0 Subsurface Soil Investigation

The first subsurface soil analyses were conducted on composite samples taken from the bottom (5-ft) and the sidewalls of the more deeply contaminated area associated with the POR. The analyses results of this initial sampling event (March 21,26, 2002) indicated that chloride contamination of the soil in the area adjacent to the POR was the only concern at depths beyond 5-ft bgs, and that the lateral extents of this central excavation would have to be extended to achieve composite sidewall chloride levels below the remedial goal of 250 mg/kg.

The centralized POR excavation was expanded vertically down to 10-ft, and the lateral extents were increased in all directions. Composite samples were again collected and submitted for analysis on April 2, 2002. Results of this sampling event indicated that the only area of the excavation still exhibiting high chloride levels was the east sidewall. The east-side of the excavation was further extended, sampled on April 4, 2002, and achieved a chloride level of 80 mg/kg.

Laboratory analytical reports, a summary table of all analytical results and graphical representations of the analytical data are provided in the Attachments.

6.0 Ground Water Investigation

Ground water depth is conservatively estimated to be >150-ft bgs at the site. The site was excavated to a maximum depth of 10-feet. CoC levels of the 5-ft bottom-hole and sidewalls of the excavation were analyzed to be within the following ranges: TPH - 0 to 340 ppm; Benzene - 0 to 0.005 ppm; BTEX - 0 to 0.232 ppm; Chlorides - 288 ppm to

832 ppm. Composite samples taken from the 10-ft level were not evaluated for hydrocarbons due to the low levels encountered at the 5-ft level. Chloride levels at the 10-ft level (bottom-hole and sidewall) ranged from 80 ppm to 256 ppm. The excavation was backfilled with clean backfill material. There will be no need for further ground water investigation at this site.

7.0 Remediation

Remediation of the site commenced on 15-Mar-02 and continued through 11-Apr-02. Remediation consisted of excavation and disposal of ~1064 yd³ of contaminated soil. Approximately 600-yd³ was excavated and disposed of from the visibly affected surface area in the release area and along the north flow path. Depth of soil removal was shallow and variable from 2-ft to 5-ft. Approximately 450-yd³ was excavated and disposed of from the area immediately associated with the POR (~1220-ft² to a depth of 10-ft). All contaminated soil removed from the site was disposed of in EPI's approved land farm.

The depth and lateral extent of the POR excavated area was determined by composite bottom-hole and sidewall sampling and certified laboratory analysis. Attenuation levels consistent with NMOCD remedial goals were attained at the site for TPH, BTEX, Benzene and Chlorides (see Section 5.0 - Subsurface Soil Investigation). The site was backfilled and properly contoured to prevent pooling of rainwater on the excavation surface. The surface damaged area will be evaluated for new growth in Spring-2003 and reseeded with natural grasses if deemed necessary at that time.

8.0 Closure Justification

This report documents successful implementation of the Remediation Plan approved by NMOCD for this release site. Soil contaminated above acceptable CoC remedial concentrations was excavated and removed from the location. Disposal of RCRA exempt contaminated soils was at EPI's approved land farm. The excavation was backfilled with clean caliche and top-soil material, and was properly contoured to provide adequate drainage. Based on the data presented in this report, Environmental Plus, Inc., on behalf of Duke Energy Field Services, requests that the NMOCD require "no further action" at this site.

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ATTACHMENTS

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Plate 3: Site Features (GPS Demarcation)	9
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Plate 1: Site Location Map



Plate 2: Site Topographical Map







Plate 3: Release Site GPS Demarcation Duke Energy Field Services - A-Line 031502 Lea County, NM; UL-F Section 08 T21S R36E Drawn By: JCG Date: Oct-02 Revised



Sample Date	Excavation Sampling Area	Depth (ft - bgs ¹)	SAMPLE ID#	VOC ²	GRO ³ mg/Kg	DRO ⁴ mg/Kg	TPH ⁵ mg/Kg	BTEX ⁶ mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethyl Benzene mg/Kg	Total Xylenes mg/Kg	Cl ^r mg/Kg
21-Mar	BottomHole	5-ft	SDAL32102BH		10	14	24	0.030	0.005	0.005	0.005	0.015	288
26-Mar		1					1						
2-Apr		10-ft	SDAL4202BH										256
4-Apr													
21-Mar	SideWall - South	5-ft	SDAL32102SSW		10	340	350	0.232	0.005	0.058	0.031	0.138	400
26-Mar													
2-Apr		10-ft	SDAL4202SSW										160
4-Apr													
21-Mar	SideWall - East	5-ft	SDAL32102ESW		10	10	20	0.030	0.005	0.005	0.005	0.015	381
26-Mar													
2-Apr		10-ft	SDAL4202ESW		м.								20794
4-Apr		10-ft	SDAL4402ESW							·.			8
21-Mar	SideWail - West	5-ft	SDAL32102WSW	1	10	10	20	0.030	0.005	0.005	0.005	0.015	11:
26-Mar													
2-Apr		10-ft	SDAL4202WSW										83
4-Apr		10-ft	SDAL4402WSW										90
21-Mar	SideWall - North												
26-Mar		5-ft	SDAL32602NSW		10	10	20	0.030	0.005	0.005	0.005	0.015	304
2-Apr		10-ft	SDAL4202NSW										144
4-Apr													

10

Duke Energy Field Services

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Bar Charts: Composite TPH and Chloride Analysis



Lab Analysis Reports and Chain-of-Custody Forms

All analyses performed by Cardinal Laboratories, Hobbs, New Mexico



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ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: PAT McCASLAND P.O.BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 03/21/02 Reporting Date: 03/22/02 Project Owner: DUKE Project Name: DUKE A LINE Project Location: OIL CENTER Sampling Date: 03/21/02 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC/HM

		GRO	DRO	
		(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	Cl*
LAB NUMBE	ER SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS	DATE	03/21/02	03/21/02	03/22/02
H6610-1	SDAL32102SSW	<10.0	340	400
H6610-2	SDAL32102ESW	<10.0	<10.0	368
H6610-3	SDAL32102WSW	<10.0	<10.0	112
H6610-4	SDAL32102BH	<10.0	13.6	288
Quality Cont	trol	776	743	980
True Value	QC	800	800	1000
% Recovery	ſ	97.0	92.9	98.0
Relative Per	rcent Difference	3.7	3.9	6.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI⁻: Std. Methods 4500-CI⁻B *Analyses performed on 1:4 w:v aqueous extracts.

Chemist J 244 Glothe

Date

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Receiving Date: 03/21/02 Reporting Date: 03/22/02 Project Owner: DUKE Project Name: DUKE A LINE Project Location: OIL CENTER Sampling Date: 03/21/02 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC

LAB NUMBE	ER SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS I	DATE	03/21/02	03/21/02	03/21/02	03/21/02
H6610-1	SDAL32102SSW	< 0.005	0.058	0.031	0.138
H6610-2	SDAL32102ESW	<0.005	<0.005	< 0.005	<0.015
H6610-3	SDAL32102WSW	< 0.005	<0.005	<0.005	<0.015
H6610-4	SDAL32102BH	<0.005	<0.005	< 0.005	<0.015
Quality Cont	trol	0.109	0.104	0.105	0.304
True Value	QC	0.100	0.100	0.100	0.300
% Recovery	· · · · · · · · · · · · · · · · · · ·	109	104	105	101
Relative Per	rcent Difference	7.6	2.8	2.3	3.0

METHOD: EPA SW-846 8260

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Project Man	nager Pat McCasland	_										-													
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Project Loc	oject Location Oil Center														802	015	ច								
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		a:				MATRIX				PF	RESER	RV.	SAMI	PLING	BT	ЧТ									
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME											
H6610-1	SDAL32102SSW	С	1			X					X		3/21/02	12:10	Х	Χ	X								
-2	SDAL32102ESW	С	1			x					x		3/21/02	12:20	Χ	X	X								
-3	SDAL32102WSW	С	1			X					x		3/21/02	12:30	Х	X	X								
-4	SDAL32102BH	C	2			x					x		3/21/02	12:40	X	X	X								
			•																						

Sampler Relinquished:	Data 324/02 Received By:	Fax Results To Pat McCasland 505-394-2601
Cat Miller	Time 4:05	REMARKS:
	Time Received By: (lab staff)	
Delivered by Sampler	Sample Cool & Intact Yes No	



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ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: PAT McCASLAND P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 03/26/02 Reporting Date: 03/27/02 Project Owner: DUKE ENERGY Project Name: DUKE A-LINE Project Location: NOT GIVEN Sampling Date: 03/26/02 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC

LAB NUMBE	ER SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS I	DATE	03/26/02	03/26/02	03/26/02	03/26/02
H6621-1	SDAL32602NSW	<0.005	<0.005	<0.005	<0.015
Quality Con	trol	0.098	0.095	0.099	0.286
True Value	QC	0.100	0.100	0.100	0.300
% Recovery		98.3	94.9	99.4	95.2
Relative Per	rcent Difference	6.9	8.2	0.7	0.5

METHOD: EPA SW-846 8260

Burgett La Cash

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ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: PAT McCASLAND P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 03/26/02 Reporting Date: 03/27/02 Project Owner: DUKE ENERGY Project Name: DUKE A-LINE Project Location: NOT GIVEN Sampling Date: 03/26/02 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC/AH

	GRO	DRO	
	(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	CI*
LAB NUMBER SAMPLE ID	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS DATE	03/26/02	03/26/02	03/26/02
H6621-1 SDAL32602NSW	<10.0	<10.0	304
		-	
	/.		
Quality Control	785	758	1030
True Value QC	800	800	1000
% Recovery	98.1	94.7	103
Relative Percent Difference	3.3	9.2	5.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI⁻: Std. Methods 4500-CI⁻B *Analyses performed on 1:4 w:v aqueous extracts.

Burley Chemist

27/02

Date

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		C)RAB	¥	ğ	VAS		δ	S	0	AC	õ	Ŭ													
		Ľ		Ō									DATE					 							
H6621-1	SDAL32602NSW	 		<u> </u>		X					X		201/02	8:21	X	X	X	 							
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		 			ļ														ļ	ļ					

Sampler Relinquished:	Balloa Received By:	Fax Results To Pat McCasland 505-394-2601 REMARKS:
Relinquished by:	Time Received By: (lab staff) Time Bury eth Al Room	
Delivered by Sampler	Sample Cool & Intact Checked By:	



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: PAT McCASLAND P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 04/02/02 Reporting Date: 04/03/02 Project Owner: DUKE Project Name: A-LINE Project Location: NOT GIVEN

LAB NUMBER

Analysis Date: 04/03/02 Sampling Date: 04/02/02 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: AH

CL

(mg/Kg)

H6646-1*	SDAL4202NSW	144
H6646-2*	SDAL4202SSW	160
H6646-3	SDAL4202WSW	832
H6646-4	SDAL4202ESW	20794
H6646-5	SDAL4202BH	256
Quality Control		1040
True Value QC	>	1000
% Recovery		104
Relative Perce	1.0	

SAMPLE ID

METHOD: Standard Methods4500-CIBNOTE: Analyses performed on 1:4 w:v aqueous extracts.*Matrix interference (color) observed.

emist

PLEASE Description of the second of the seco

	al Laboratories	Ind	Ĉ.															₽								
	wood, Abilene, TX 79603)1 Fax 915-673-7020												, NM 8													
Company I		ıc Îr		-			5-393-2326 Fax 505-393-2476 Bill To Analysis Request									<u> </u>	و المحديد ال	·								
Project Man	and the second se	15 11	<u></u>			1962													T		i					_
Address	PO Box 1558														-						•					:
City, State,																					- [
Phone#/Fa		394-	-260	1]	Envi	iron	mei	ntal	Plu	s Inc.													
Project #/C																										
Project Nar				A												Σ										
Project Loc																8015										
Sampler Na	ame CODY MILLER														ប	8 1										
		a.			_	MA	TRIX			PF	RESER	XV.	SAM	PLING		Hall										
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME												
H1dd46-1	SDAL4202 NSW	С	1			X					X		4/2/02	1:00	X											
the second s	SDAL4202 55W	С	1			X					Х		4/2/02	1:10	X											
	SDAL4202 WSW	С	1			X					X		4/2/02	1:20	Χ				_							
	SDAL4202 ESW	C	1	Ĺ		X					X		4/2/02	1:30	X											
-5	SDAL4202 BH	C	1	``		X					X		4/2/02	1:40	X											
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Sampler Relingu	shed:			L	L	L		L			<u> </u>					Lļ	1				l.	1		I	L	

Sampler Relinquished:	Peter 4-2 - 01 Received By:	Fax Results To Pat McCasland 505-394-2601
		REMARKS:
Relinquished by:	Tag 25 Received By: (lab staff)	
Delivered by Sampler	Sample Gool & Intact Yes No	·



PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: PAT McCASLAND P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 04/04/02 Reporting Date: 04/05/02 Project Owner: DUKE Project Name: A-LINE Project Location: NOT GIVEN Analysis Date: 04/05/02 Sampling Date: 04/04/02 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: AH

LAB NUMBER

SAMPLE ID

Cl⁻ (mg/Kg)

H6648-1	SDAL4402ESW	80
H6648-2	SDAL4402WSW	96
····		
		· · · · · · · · · · · · · · · · · · ·
Quality Contro)	1040
True Value Q	C	1000
% Recovery		104
Relative Perce	ent Difference	1.0
IETHOD: Stan	dard Methods	4500-CIB

NOTE: Analyses performed on 1:4 w:v aqueous extracts.

Chemist

4/05/2002

PLEASE NOTE Baltity and Damages. Cardinat'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 waved 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.

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4	(915) 673-7001 Fax																						Page	· •	of		
Company Name	EPI								Τ			B	IL	LTO						ANA	LYS	IS RE	QUE	ST			
Project Manage	. At Melney	WÐ							P	2.0.	# :							Τ	T								
Address: 210	Arso								c	om	рап	y :	Ē	PI		[{					 	Į.
City: Evale		State:	Zip): (72	31			A	tin:							1	1									1
Phone #: 394	-1870	Fax #: 394 -	24	nQ[A	ddi	965	:											1			1	
Project #:		Project Owner	: 0	vk	E				c	ity:										1			ł		1	1	1
Project Name:	DUKE A-LM	Æ							s	tate):		Z	ip:						1		1	ļ			}	1
Project Location									P	hor	10 \$:				1			1	1					I		
Sampler Name:	Cary Miller								F	ax f	:					1	l									i i	
FOR LAB USE ONLY					L	M	ATR	ux_		P	RES	ER	2	SAMPLI	NG	1		1	1				{	1	{		
Lab I.D.	Sample I		(G)RAB OR (C)OMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SUL	CKUDE UIL	OTHER .	VITTEN .		DTHER .	CITICIN .	DATE	TIME	5											
H6648-1	SDAL4402	ESW	C	11			1		Τ		V		4	4.4.12	9:00	マ		1					1	1			
-2	SDAL4402	NSU	C	1							V	1	4	1.4.4	9:30	~											
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natyses. Al claims including union. In no event shall Ca Milates or successors artist	d Damages. Cardina's liability and clas g those for negligence and any ether or rdiret be liable for incidential or conseq 13 out of or related to the participance	nee whatsonver shall be dee period damages, including will of earliese hereunder by Car	med ve hout in time, r	alad a Ration ugarde	ritours re , busitrus ress of u	ada in v as liter Astiner :	wiling Nation	and re-	ontrac of us	áby C n. or i	erdhui Den of	i withir profile	n 30 de Haun	aya after comp red by class, it	inten of the apple to subsidiaries, or otherwise.		l	.l		30 117	deys pee 5 uii coeta	due at the of collection	rate of 241		i trans the	courts more original date	
Sampler Relinqu	lisned:	4-4-02	Re	ceiv	ed E	3y :				_					Phone Re Fax Resu	R:			□ No □ No		Phon Fax #						
telinguished By	: (Circle One)	Time: UUUDY Time: UUUS	R¢	Gon M	N	and J	⁄ le C) ondi	Ĺ		l		KÉĹ	Ď BY:	REMARK	S:				•							
Sampler - UPS	- Bus - Other:			l		Fr	.	Eact 78 N	8 0	-		ູບກ		• j													

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Site Photographs









Final NMOCD C-141 Form

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 March 17, 1999

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

	(DPERATOR	2 S			Initial Report	Final Report	
Name of Con	apany	· · · · ·			Contact			
Duke Energy	Field Servi	ices			Paul Mulkey	7		
Address					Telephone N	0.		
11525 West	Carlsbad H	wy :	Hobbs, NM	88240	505-397-571	6		
Facility Name	e				Facility Type			
A-Line					Natural Gas	Pipeline		
L			· · · · · · · · · · · · · · · · · · ·		•			
Surface Own	er			Mineral Ow	ner		Lease No.	
Billy Sartan								
			L	OCATION	OF RELEA	SE		
Unit Letter	Section	Township	Range	Feet from	Feet from	Longitude	Latitude	County:
F	8	215	36E	South Line	West Line	W103:17:15.03	N32:29:47.82	Lea
F	5	215	JOE	3875	2466	W105.17.13.05	1132.27.47.84	Lea
]	NATURE O	F RELEAS	SE		
Type of Rele	ase				Volume of R	elease	Volume Recovered	
Natural Gas	and associa	ted liquid con	ponents		40 bbl		30 bbl	
Source of Re						ur of Occurrence	Date and Hour of D	iscovery
Steel Natura	l Gas Pipeli	ne			3/15/02 10:0	0 AM	3/15/02 11:00AM	

Was Immediate Notice Given?	If YES, To Whom?
Yes No Not Required	Larry Johnson - Hobbs NMOCD
By Whom?	Date and Hour
Stan Shaver	3/15/02 1:00 PM
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.
🗆 Yes 🗹 No	NA
If a Watercourse was Impacted, Describe Fully.*	

NA

Describe Cause of Problem and Remedial Action Taken.* Corroded pipeline, repaired with clamp

Describe Area Affected and Cleanup Action Taken.*

~10,600-ft² surface area ultimately affected by shallow excavation. RCRA Exempt Non-hazardous contaminated soil above remedial goals was excavated and disposed of by EPI. (Closure documentation attached)

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	Pa/ 176	Ik.	7 /	OIL CONS	ERVATION DIVISION	
Printed N		aul Mulkey		Approved by District Super	rvisor:	
Title:	Construction	& Maintenan	ce Supervisor	Approval Date:	Expiration Date:	
Date:	10/31/02	Phone:	505-397-5716	Conditions of Approval:		Attached .

Attach Additional Sheets If Necessary

Site Information and Metrics Form

Duke	Enerav	Incident Date and N	MOCD Notified?	······································
Field	Energy₀ Services	3/15/02 11:00AM	3/15/02 1:00 PM	
SITE: A-Line			Assigned Site Referen	nce #: A-Line 031502
Company:	Duke Energ	y Field Services		
Street Address:	11525 Wes	t Carlsbad Hwy		
Address:	11525 Wes	t Carlsbad Hwy		
City, State, Zip:	Hobbs, NM	88240		
Representative:	Paul Mulke	ÿ		
Representative Teleph	ione: 505-397-57	/16		
Telephone:	······		<u> </u>	
luid volume released	(bbls): 40 bbl	Recovered (bbls):	30 bbl	
	>25 bbts: No	tify NMOCD verbally within	24 hrs and submit form C-141	within 15 days.
	5-25 bbls: Submit form C	-141 within 15 days (Also a	applies to unauthorized releases	of 50-500 mcf Natural Gas)
eak, Spill, or Pit (LSF		A-Line 031502	<u>, , , , , , , , , , , , , , , , , , , </u>	
Source of contamination		Steel Natural Gas Pi	ipeline	
and Owner, i.e., BLM		Billy Sartan	223 N. Moore, Sulphu	r Spring, TX 75482
SP Dimensions:	<u></u>			north 270-ft (see Plate 3)
SP Area:	**************************************	~ 10,600 ft-sq		
ocation of Reference	Point (RP):			
ocation distance and				
atitude:		N32:29:47.82		
		W103:17:15.03		a manine de la companya de la compa
Elevation above mean	sea level.	3595-ft amsl		······································
eet from South Section		3875	······································	
eet from West Section		<u>3875 </u>		
			E 1/4 of NW	1 1/4
ocation - Unit or 1/4	1/4. UL-	8		/ 1/4
ocation - Section:				
ocation - Township:		<u>21S</u>		
Location - Range:		36E		
	thin 1000' radius of Sit			······································
	thin 1000' radius of Sit			······································
	within 1000' radius of S		- · · · · · · · · · · · · · · · · · · ·	
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	ells within 1000' radius			······································
	Inface to ground water			
Depth (ft) of contamination		10		
Depth (ft) to ground wa	ater (DG - DC = DtGW):144		
1. Grour	nd Water	2. Wellhead	Protection Area	3. Distance to Surface Water Body
f Depth to GW <50 fe	et: 20 points	If <1000' from water	source, or, <200' from	<200 horizontal feet: 20 points
f Depth to GW 50 to 9	99 feet: 10 points	private domestic wa	ter source: 20 points	200-100 horizontal feet: 10 points
f Depth to GW >100 f	ieet: 0 points	If >1000' from water private domestic wa	source, or, >200' from ter source: <i>0 points</i>	>1000 horizontal feet: 0 points
Ground water Score:	0	Wellhead Protection		Surface Water Score: 0
Site Rank (1+2+3) =	0			Learne and a contract of the c
		ite Ranking Score	and Acceptable Conce	ntrations
Parameter	20 or >		10	0
Benzene ¹	10 ppm	t	10 ppm	10 ppm
			50 ppm	50 ppm
3TFX ¹				
BTEX ¹	50 ppm 100 ppm		1000 ppm	5000 ppm

Certificate of Waste Status (RCRA Exempt)

ENVIRONMENTAL PLUS, INC.

Environmental Services & Land Farm

PERMIT # NM-01-0013

Certificate of Waste Status

"Exempt Waste"

COMPANY	: DUKE ENERGY	FIELD SERVICES		
ORIGIN:	UL OR 1414: F	Section: 08	Township: 215	RANGE: 36E
SOURCE I	DESCRIPTION (PIP)	ELINE, LEASE, BATTE	RY, FLOWLINE, ETC.)	PIPELINE
A-LINE N	IATURAL GAS PIPE	LINE		

"As a condition of acceptance for disposal, I hereby certify that this waste is an **exempt** waste as defined by the Environmental Protection Agency (EPA) July 1988 Regulatory Determination and to my knowledge, this waste been characterized as "non-hazardous" pursuant to the provisions of EPA 40 CFR Part 261 Subpart C and has not been comingled with an EPA 40 CFR Part 261 Subpart D "Listed Waste."

I,	PAUL	MULKEY	,THE UNDERSIGNED AGENT	
FOR	DUKE ENERG	Y FIELD SERVICES	, HEREBY CERTIFY THAT,	
BASED ON PI	RSONAL KNOWLEI	DGE, THE ABOVE STAT	TEMENT IS TRUE AND CORREC	
	NAME	PAUL MULKEY		
	TITLE	MAINTENANCE &	CONSTRUCTION SUPERVISOR	
	ADDRESS	11525 WEST CARLSBAD HIGHWAY		
		HOBBS, NEW ME	XICO 88240	
	SIGNATURE	Paul Mm	lky	
	DATE	MARCH 20, 2002		

District I	Sta	11/8/02	Form C-141			
1625 N. French Dr., Hobbs, NM 88240	Energy Mine	NEED OK	Revised March 17, 1999			
District II 1301 W. Grand Avenue, Artesia, NM 88210 District III	Oil	LETTER	Submit 2 Copies to appropriate			
1000 Rio Brazos Road, Aztec, NM 87410	122		District Office in accordance			
District IV	{		with Rule 116 on back			
1220 S. St. Francis Dr., Santa Fe, NM 87505			side of form			
Release Notification and Corrective Action						
OPERATO	ł	Initial Report	Final Report			
Name of Company		Contact				
Duke Energy Field Services		Paul Mulkey				
Address		Telephone No.				

If YES, Volume Impacting the Watercourse.

29303

13141516

OCD

11525 West Carlsbad Hwy Hobbs, NM 88240			505-397-5716					
Facility Name	•				Facility Type	•		
A-Line	-Line Natural Gas Pipeline							
Surface Own	er			Mineral Own	ner	·	Lease No.	
Billy Sartan	silly Sartan							
			L	OCATION	OF RELEA	ASE		
Unit Letter	Section	Township	Range	Feet from	Feet from	Longitude	Latitude	County:
F		268	South Line	West Line	W102-15-15-02	N22-20-47-02	Loo	
F	8	218	36E	3875	2466	W103:17:15.03	N32:29:47.82	Lea
]	NATURE O	F RELEAS	SE		· · · · · · · · · · · · · · · · · · ·
Type of Release			Volume of Release Volume Recovere		Volume Recovered			
Natural Gas and associated liquid components				40 bbl 30 bbl				
Source of Release				Date and Hour of Occurrence		Date and Hour of Discovery		
Steel Natural Gas Pipeline			3/15/02 10:00 AM 3/15/02 11:00AM					
Was Immedia	te Notice Gi	ven?			If YES, To V	Vhom?		
	🗹 Yes	🛛 No	□ Not R	equired	Larry Johns	on - Hobbs NMOC	D	
By Whom?					Date and Ho	ur		
Stan Shaver					3/15/02 1:00) PM		

NA

□ Yes 🖌 No If a Watercourse was Impacted, Describe Fully.* NA

Was a Watercourse Reached?

Describe Cause of Problem and Remedial Action Taken.* Corroded pipeline, repaired with clamp

Describe Area Affected and Cleanup Action Taken.*

~10,600-ft² surface area ultimately affected by shallow excavation. RCRA Exempt Non-hazardous containstated soil above remedial goals was excavated and disposed of by EPL (Closure documentation attached) 52359

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: Par Mulker			<u>OIL COM</u>	NSERVATION DIVISION	<u> </u>	
Printed N		aul Mulkey		Approved by District Su	pervisor:	
Title:	Construction	& Maintenan	ce Supervisor	Approval Date:	Expiration Date:	
Date:	10/31/02	Phone:	505-397-5716	Conditions of Approval:		Attached .

Attach Additional Sheets If Necessary



October 31, 2002

Mr. Larry Johnson Energy, Minerals, and Natural Resources Department New Mexico Oil Conservation Division 1625 North French Dr. Hobbs, New Mexico 88240

Subject: Duke Energy Field Services - A-Line 031502 Final C-141 and Closure Documentation

Dear Mr. Johnson:

Environmental Plus, Inc. (EPI), on behalf of Duke Energy Field Services submits for your consideration and approval the Final C-141 and Closure Documentation for the "A-Line 031502" remediation site. This report documents the vertical and horizontal extents of hydrocarbon contamination at the site, removal of contaminated soils above acceptable CoC levels, and the disposal of said contaminated soils at EPI's approved land farm consistent with the Initial C-141 and Remediation Plan submitted to NMOCD on March 20, 2002. EPI, on behalf of Duke Energy Field Services, therefore requests that the NMOCD consider the information provided within this documentation and require "no further action" at this site.

If there are any questions please call Mr. Ben Miller or myself at EPI's offices, or at 505-390-0288 or 505-390-9804 respectively. Mr. Paul Mulkey of Duke Energy Field Services can be contacted at 505-397-5716.

All official correspondence should be addressed to:

Mr. Paul Mulkey Duke Energy Field Services 11525 West Carlsbad Highway Hobbs, New Mexico 88240

Sincerely,

len Ann

John Good, Environmental Consultant

cc: Paul Mulkey, Duke Energy Field Services, w/enclosure Sherry Miller, EPI President Ben Miller, EPI Vice President and General Manager Pat McCasland, EPI Technical Manager File



0

ENVIRONMENTAL PLUS, INC.

Environmental Services & Land Farm PERMIT # NM-01-0013

Certificate of Waste Status

"Exempt Waste"

COMPANY: DUKE ENERGY FIELD SERVICES ORIGIN: UL OR 1/4 1/4: F SECTION: 08 TOWNSHIP: 21S RANGE: 36E SOURCE DESCRIPTION (PIPELINE, LEASE, BATTERY, FLOWLINE, ETC.) PIPELINE A-LINE NATURAL GAS PIPELINE

"AS A CONDITION OF ACCEPTANCE FOR DISPOSAL, I HEREBY CERTIFY THAT THIS WASTE IS AN EXEMPT WASTE AS DEFINED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA) JULY 1988 REGULATORY DETERMINATION AND TO MY KNOWLEDGE, THIS WASTE BEEN CHARACTERIZED AS "NON-HAZARDOUS" PURSUANT TO THE PROVISIONS OF EPA 40 CFR PART 261 SUBPART C AND HAS NOT BEEN COMINGLED WITH AN EPA 40 CFR PART 261 SUBPART D "LISTED WASTE."

I, PAUL MULKEY ,7	THE UNDERSIGNED AGENT
-------------------	-----------------------

FOR DUKE ENERGY FIELD SERVICES , HEREBY CERTIFY THAT,

BASED ON PERSONAL KNOWLEDGE, THE ABOVE STATEMENT IS TRUE AND CORRECT.

ΝΑΜΕ	PAUL MULKEY				
TITLE	MAINTENANCE & CONSTRUCTION SUPERVISOR				
ADDRESS	11525 WEST CARLSBAD HIGHY	WAY			
	HOBBS, NEW MEXICO 88240				
STONATION D	To 122 DR	- 780 TO			
SIGNATURE	1 de 11 alter	3 ⁴ 567897072			
DATE	MARCH 20, 2002				
		In order			
		RECORDS			
		62 Hobbs OCO			
	21	1 CC			
	<u> </u>				