

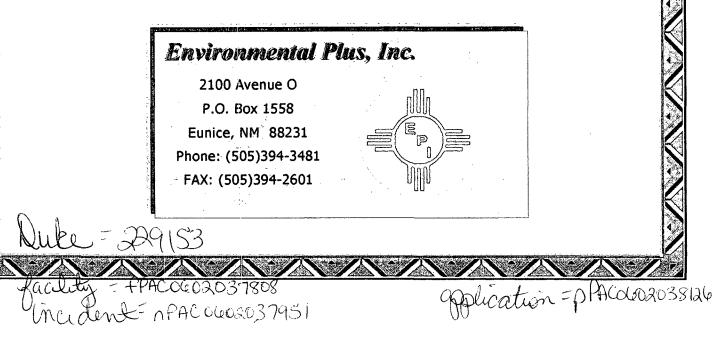
# SITE INVESTIGATION, REMEDIATION AND FINAL C-141 CLOSURE DOCUMENTATION

# L-EXTENSION-2 RELEASE SITE DEFS REF: L-EXTENSION-2 121103

UL-G (SW¼ OF THE NE¼) OF SECTION 21 T22S R36E ~7.5 MILES WEST-SOUTHWEST (236.5°) OF EUNICE LEA COUNTY, NEW MEXICO LATITUDE: N32° 22' 38.41" LONGITUDE: W103° 15' 58.71"

# **JANUARY 16, 2004**

# PREPARED BY: JCG





January 16, 2004

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 – L-Extension-2 121103 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 "L-Extension-2 121103" 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 December 19, 2003. 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 505-391-5716.

All official correspondence should be addressed to:

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

Sincerely,

John Good

John Good, Environmental Consultant

cc: Paul Mulkey, Duke Energy Field Services, Linam Ranch, w/enclosure Lynn Ward, Duke Energy Field Services, Midland, w/enclosure Steve Weathers, Duke Energy Field Services, Denver, w/enclosure Sherry Miller, EPI President Ben Miller, EPI Vice President and General Manager Pat McCasland, EPI Technical Manager File

P.O. BOX 1558

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# Project Summary

#### Site Specific:

- Company Name: Duke Energy Field Services
- Facility Name: L-Extension-2 Natural Gas Gathering Pipeline
- **Project Reference** L-Extension-2 121103
- Company Contact: Paul Mulkey
- Site Location: WGS84: N32° 22' 38.41"; W103° 15' 58.71"
- Legal Description: Unit Letter G, (SW¼ of the NE¼), Section 21, T22S, R36E
- General Description: approximately 7.5-miles west-southwest (236.5°) of Eunice, NM
- Elevation: 3519-ft amsl Depth to Ground Water: ~165-ft
- Land Ownership: Millard Deck Estate
- EPI Personnel: Technical Manager Pat McCasland
  - Project Consultant John Good

Site Foreman – Eddie Joe Harper

#### **Release Specific:**

- Product Released: Natural Gas & NGL
- Volume Released: 5 bbl
  Volume Recovered: 3.5 bbl
- Time of Occurrence: Unknown Time of Discovery: 11-Dec-03
- **Release Source**: 20" steel NG pipeline; integrity lost due to internal corrosion; repaired by clamping with ultimate replacement of section.
- Initial Surface Area Affected: 2,000-ft<sup>2</sup>

#### Remediation Specific:

- Final Vertical extent of contamination: 7-ft bgs; Remaining depth to ground water: 158-ft
- Water wells within 1000-ft: 0
  Surface water bodies within 1000-ft: 0
- NMOCD Site Ranking Index: 0 points (>100-ft to top of water table)
- Remedial goals for Soil < 65-ft bgs: TPH 5000 ppm; BTEX 50 ppm; Benzene – 10 ppm; Chlorides – 250 ppm
- RCRA Waste Classification: Exempt
- Remediation Option Selected: a) Excavation and disposal of contaminated soil above NMOCD remedial goals; b) analytical confirmation of bottom-hole and sidewall contaminant levels; c) backfill with clean caliche and topsoil.
- **Disposal Facility:** Environmental Plus, Inc. **Volume disposed of:** 861-yd<sup>3</sup>
- Project Completion Date: December 31, 2003
- Additional Commentary: None

# **<u>1.0</u>** Introduction & Background

This report addresses the site investigation and remediation of the Duke Energy Field Services (DEFS) "L-Extension-2 121103" 20-inch natural gas gathering line remediation site. On December 15, 2003, Environmental Plus, Inc. (EPI) was notified by DEFS regarding a newly discovered natural gas and associated natural gas liquid (NGL) release at this site. The initial C-141 Form submitted to the New Mexico Oil Conservation Division (NMOCD) on December 19, 2003 reports the release volume (NGL) as 5-bbl with 3.5-bbl recovered. EPI responded the day of the DEFS' notification and commenced GPS surveying, photography and characterization of the site. The site consisted of an approximate 2,000  $-ft^2$  surface area with pooled NGL associated with the Point of Release (POR) (*Plate 3, Attachments*). Remediation of this release site consisted of excavation and disposal of 861-yd<sup>3</sup> of contaminated soil at EPI's approved surface waste facility, soil sampling and laboratory analyses, backfilling and contouring of the excavation. Remediation of the site was completed on December 31, 2003.

The site is associated with the DEFS L-Extension-2 natural gas gathering pipeline. This release site is located in Unit Letter G, (SW<sup>1</sup>/<sub>4</sub> of the NE<sup>1</sup>/<sub>4</sub>), Section 21, T22S, R36E, N32°22'38.41" and W103°15'58.71". It is approximately 7.5-miles west-southwest (236.5°) of Eunice, NM. The property is owned by the Millard Deck Estate. A site location map, site topographical map and detailed GPS site renderings are included in the Attachments as *Plates 1, 2, 3 and 4*.

The natural gas and associated NGL release at this site was discovered on December 11, 2003 and reported to NMOCD on December 12, 2003. The Initial NMOCD C-141 Form was submitted on December 19, 2003. The leak was the result of internal pipe corrosion. The pipeline was temporarily clamped and eventually replaced by DEFS personnel.

# 2.0 Site Description

#### 2.1 Geological Description

<u>The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and</u> <u>Ground-Water Conditions in Southern Lea County, New Mexico," A. Nicholson and A.</u> <u>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.

#### 2.2 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.

#### 2.3 Area Ground Water

The unconfined ground water aquifer at this site is projected to be  $\sim 165$ -ft bgs based on water depth data obtained from the NM State Engineers Office data base. Ground water gradient in this area is generally to the east-southeast.

Well	]						Well	Water	Water
Number	Tws	Rng	Sec	Q	Q	Q	Depth	Depth	Colum
763	22S	36E	1	3	2	2	265	137	128
727	225	36E	5	2	3	1	267	212	55
469	225	36E	6	3	2	1	220	195	25
70	225	36E	16	1	2	2	220	170	50
575	225	36E	27	4	3		198	160	38

Water Column Report - NM State Engineer Database, 12-19-03

(Quarters are: 1=NW, 2=NE, 3=SW, 4=SE - biggest to smallest)

#### 2.4 Area Water Wells

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

#### 2.5 Area Surface Water Features

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

# 3.0 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:

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

Acceptable thresholds for contaminants/constituents of concern (CoCs), i.e., TPH<sup>8015m</sup>, Benzene, and the mass sum of Benzene, Toluene, Ethyl Benzene, and total Xylenes (BTEX), was 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 table presented below.

1. Grou	und Water	2. Wellhea	d Protection Area	3.	Distance to Surface Water		
	GW <50 feet: points		n water source, or; vate domestic water	<200	horizontal feet: 20 points		
•	/ 50 to 99 feet: points		e: 20 points	20	0-1000 horizontal feet: 10 points		
	W >100 feet: oints	>200' from priv	n water source, or; vate domestic water ce: <i>0 points</i>	>100	0 horizontal feet: <i>0 points</i>		
Ground Wa	iter Score = 0	Wellhead Pr	otection Score= 0	S	urface Water Score= 0		
9828982966698286698298692239859232-7482733899862477360875898	Site Ran	k (1+2+3) = 0 + 0	+ 0 = 0 points (for	soil 0-6	5'bgs)		
an a ta fa an	Total Site Rank	ing Score and A	cceptable Remedial G	ioal Co	ncentrations		
Parameter	20		10				
Benzene <sup>1</sup>	10	pm	10 ppm		10 ppm		
BTEX'	50 ן	opm	50 ppm	an a	50 ppm		
TPH	100	ppm	1000 ppm <b>5000 ppm</b>				

# 4.0 Subsurface Soil Investigation

The vertical extent of hydrocarbon contamination at the site was determined by a test excavation of the release area associated with the POR to a depth of 8-ft bgs. It was determined that the NGL had penetrated the soil to a depth less than 8-ft beneath the POR (*Plate 5, Attachments*). The lateral extent of contamination was determined with PID measurements of VOC concentrations as the excavation progressed outwardly from the POR. Final bottom-hole and sidewall contaminant concentrations were determined with 5-point composite sampling on 12-23-03 (*Plate 5, Attachments*). All laboratory analyses for this project were performed by Cardinal Laboratories, Hobbs, NM. The 7-ft composite bottom-hole sample (12-23-03) was analyzed for chloride and sulfate contamination and was found to be well below the respective remedial goals of 250-ppm and 600-ppm.

# 5.0 Ground Water Investigation

The projected depth to ground water at this site is 165-ft bgs. Excavation of the site was to a maximum depth of 7-ft. Final CoC levels of the bottom-hole of the excavation were confirmed to be below remedial goals for Benzene, TPH and BTEX (*Plate 5, Attachments*).

The excavation was backfilled with clean caliche and topsoil purchased from the property owner. Based on the removal the Constituents of Concern (CoC) to below remedial goal concentrations and adequate depth to ground water, there will be no need for further ground water investigation at this site.

# 6.0 Remediation Process

Remediation of the site commenced on December 15, 2003 and continued through December 31, 2003. Remedial activities at the site consisted of excavation and disposal of 861-yd<sup>3</sup> of NGL contaminated soil from the site. All contaminated soil removed from the site was disposed of in the NMOCD approved EPI land farm located south of Eunice, NM. The excavation was backfilled with clean caliche and topsoil purchased from the property owner.

The excavation was composite sampled (bottom-hole and sidewalls) on December 23, 2003. Results of the analyses (*Plates 5, Attachments*) indicate that remedial goals have been achieved in all areas of the excavation.

The surface damaged area encompasses  $21,834-ft^2$  (*Plate 4 – Attachments*). This area will be evaluated periodically for the necessity of re-seeding or erosion control.

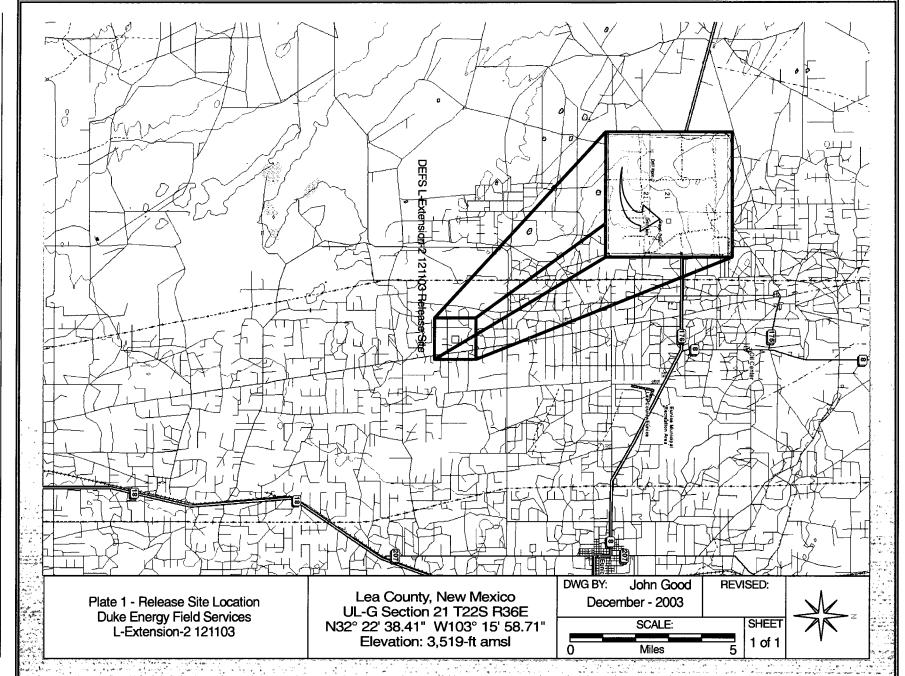
# 7.0 Closure Justification

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 the Environmental Plus, Inc. approved land farm. The excavation was backfilled with clean caliche and topsoil and 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.

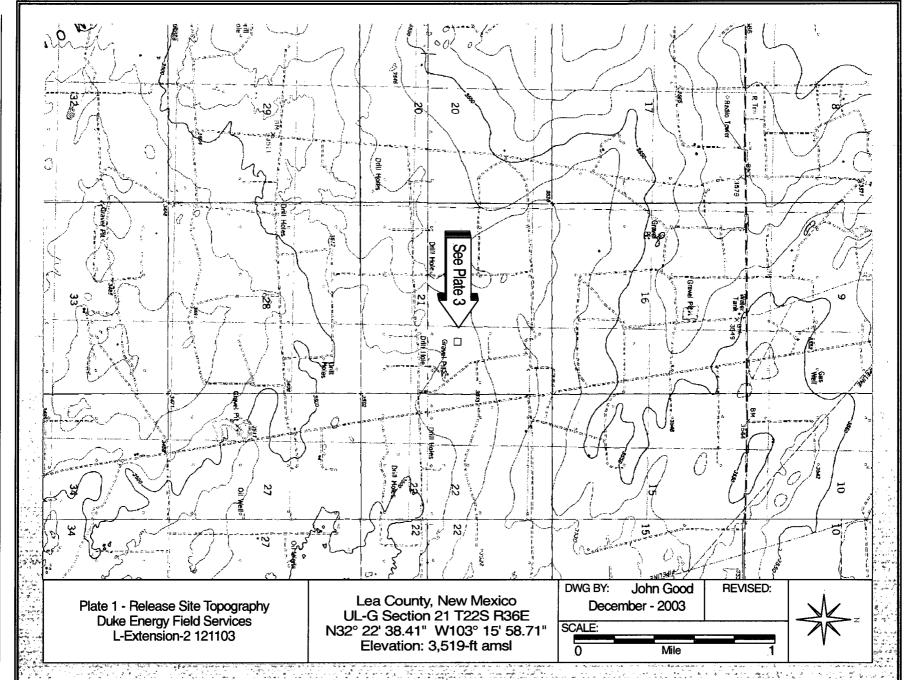
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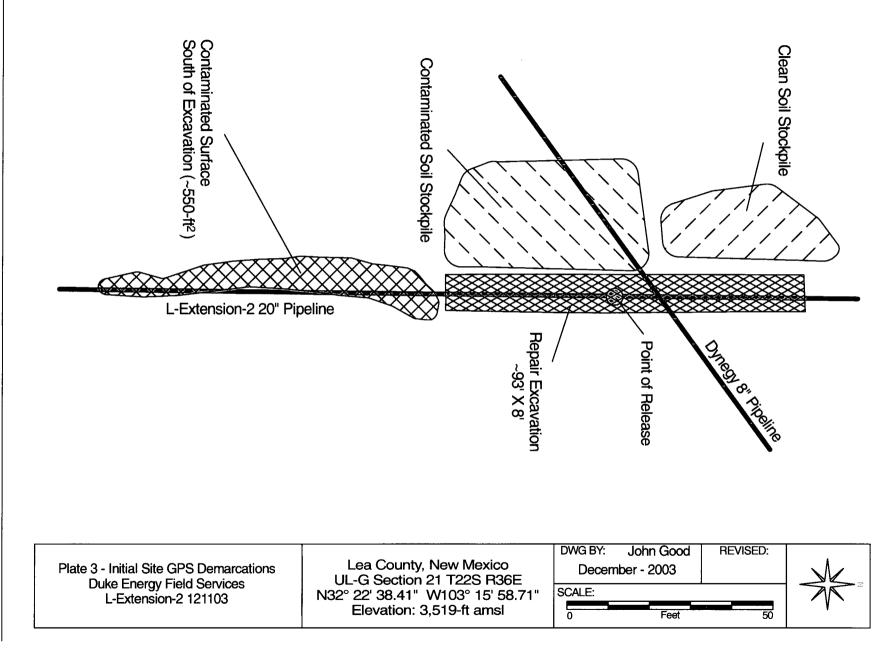
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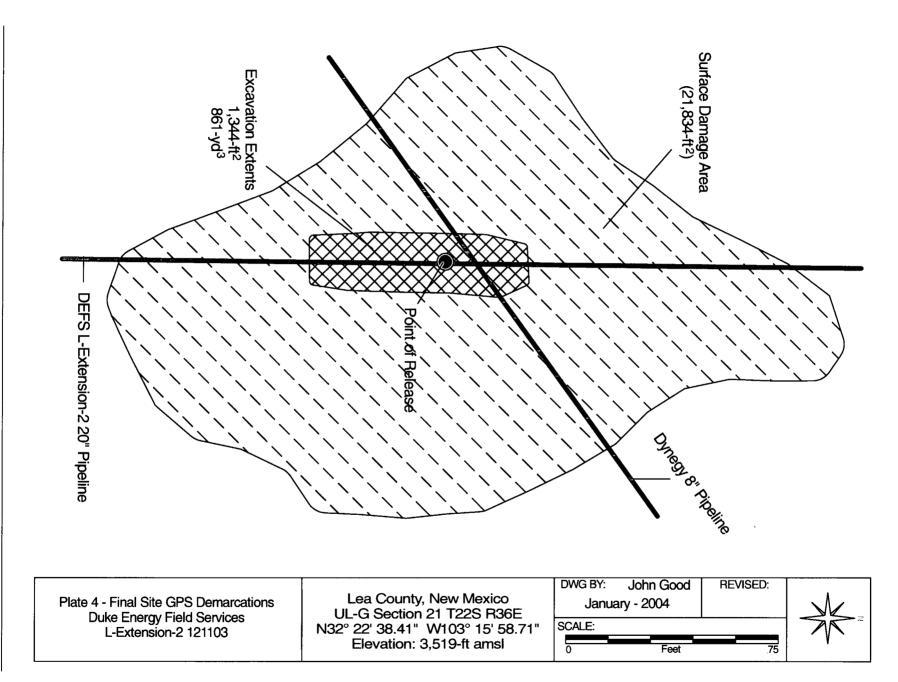


DEFS L-Extension-2 121103



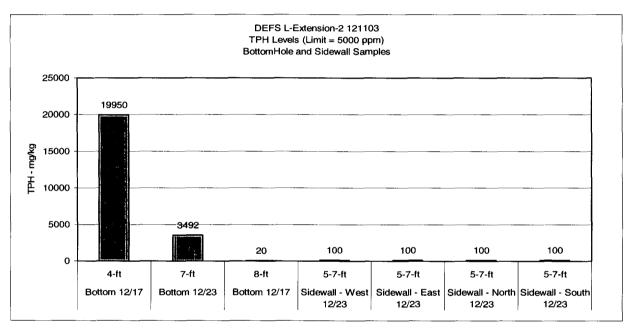
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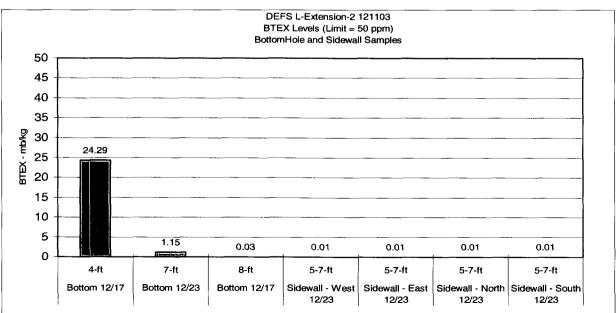




DEFS L-Extension-2 121103

	Plate 5: Soil Analytical Data        Duke Energy Field Services - L-Extension-2 121103 - Excavation Sampling Results													
Bold	Bold highlighted cells indicate values in excess of the NMOCD remedial action guideline thresholds: TPH: 5000 mg/Kg; BTEX: 50 mg/Kg; Benzene: 10 mg/Kg; Cl: 250 ppm; SO <sub>4</sub> : 600 ppm													
Sample Excavation Sampling Depth SAMPLE ID# VOC GRO <sup>2</sup> DRO <sup>3</sup> TPH <sup>4</sup> BTEX <sup>5</sup> Benzene Toluene Ethyl Benzene Xylenes Ci													SO4	
										mg/Kg	mg/Kg	mg/Kg		
12/17/03	Bottomhole-POR	4-ft	SDLE2121703BHC-4		3050	16900	19950	24.294	0.844	6.380	4.570	12.500	80	
12/17/03	Bottomhole-POR	8-ft	SDLE2121703BHC-8		10	10	20	0.030	0.005	0.005	0.005	0.015		
12/23/03	Sidewall - West	5-7-ft	SDLE2122303WSWC		50	50	100	0.012	0.002	0.002	0.002	0.006		
12/23/03	Sidewall - East	5-7-ft	SDLE2122303ESWC		50	50	100	0.012	0.002	0.002	0.002	0.006		
12/23/03	Sidewall - North	5-7-ft	SDLE2122303NSWC		50	50	100	0.012	0.002	0.002	0.002	0.006		
12/23/03	Sidewall - South	5-7-ft	SDLE2122303SSWC		50	50	100	0.012	0.002	0.002	0.002	0.006		
12/23/03	Bottomhole	7-ft	SDLE2122303BHC		582	2910	3492	1.148	0.054	0.240	0.216	0.638	32	25
bgs = belo	w ground surface <sup>2</sup> GRC	- Gasoline F	Range Organics (Detection Lin	nit = 10/50 mg	y/Kg) <sup>3</sup> [	DRO - Diesel	Range Organ	ics (Detection	Limit = 10/5	0 mg/Kg)				
TPH - Tot	al Petroleum Hydrocarbon (	GRO+DRO)	5 BTEX = Sum of Benzen	e, Toluene, Et	hyl Benzene (	Detection Lin	- • nits = 0.005/0	.002 ma/Ka)	and Total Xyl	enes (Detecti	on Limit = 0.0	15/0.006 mg/	Kg)	





# LABORATORY ANALYTICAL DATA

# **Cardinal Laboratories Inc.**

	East Marland, Hobbs, NM 88240 393-2326 Fax 505-393-2476													e, TX 796 673-7020													
<b>Company Name</b>	Environme	ental Plus	i, In	c.			1			en in terres		BII	l To		0,		- Least-san		AN	ALY	815	RE	QU	EST		37	
EPI Project Man	ager John Good	j					T									Г	Τ	1	Г	Г	Γ	T	Γ				Г
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EPI Phone#/Fax	# 505-394-34	81 / 505-3	394-	-260	)1		<			1.	-7.		e,				1										
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LAB I.D.	SAMPLE I.D		(G)RAB OR (C)OMP	# CONTAINERS	<b>GROUND WATER</b>	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (CI)	SULFATES (SO4")	Н	TCLP	OTHER >>>					
48260-1 1	SDLE2121703BHC-4		С	1	1		X				1	X	Î	17-Dec	11:00	X	X		Ť	Î	Γ	Î	Γ				Г
	SDLE2121703BHC-8		С	1			X					X	Î	17-Dec	11:15	X	X	X	1		Î	Î					Γ
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PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603

PHONE (505) 393-2326 · 101 E. MARLAND · HOBBS, NM 86240

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

Receiving Date: 12/17/03 Reporting Date: 12/19/03 Project Owner: DUKE ENERGY FIELD SERVICES Project Name: L-EXTENSION-2 PIPELINE Project Location: NOT GIVEN

Sampling Date: 12/17/03 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: GP Analyzed By: BC/AH

LAB NUMBE	ER SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (≥C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS I	DATE	12/18/03	12/18/03	12/18/03
H8260-1	SDLE2121703BHC-4	3050	16900	80
H8260-2	SDLE2121703BHC-8	<10.0	<10.0	-
Quality Conf	irol	744	810	940
True Value (	20	800	800	1000
% Recovery	· · · · · · · · · · · · · · · · · · ·	93.0	101	94.0
Relative Per	cent Difference	6.7	1.2	7.4

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

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H8260A XLS PLEASE NOTE: Lability 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 neglepace and any other cause whatscover 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603 PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

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

Receiving Date: 12/17/03 Reporting Date: 12/19/03 Project Owner: DUKE ENERGY FIELD SERVICES Project Name: L-EXTENSION-2 PIPELINE Project Location: NOT GIVEN Sampling Date: 12/17/03 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: GP Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DA	TE	12/18/03	12/18/03	12/18/03	12/18/03
H8260-1	SDLE2121703BHC-4	0.844	6.38	4.57	12.5
H8260-2	SDLE2121703BHC-8	<0.005	<0.005	<0.005	<0.015
Quality Control		0.099	0.100	0.099	0.302
True Value QC	And a second	0.100	0.100	0.100	0.300
% Recovery	and the second	99.1	100	98.7	101
<b>Relative Perce</b>	nt Difference	3.2	3.6	3.1	2.5

METHOD: EPA SW-846 8260

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E

14/19/03 Date

PLEASE NOTE Liability and Damages. Cardinal's kability and chen's exclusive remedy for any claim ansing, whether based in contract or tort, shall be lamited 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 raceived by Cardinal within thiny (30) days after completion of the applicable service. In no event shall Cardinal be lable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or toss of profits incurred by client, as subsidances, affaitass or expression priority or instand to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise INEQUOUS.

Caruma	Laboratories I	nc.																					
	1, Hobbs, NM 88240												e, TX 796										
	Fax 505-393-2476					91	5-67	3-70	001				673-7020										
Company Name		us, in	IC.							r oben	Bi	To	, ) 		e Giter		<u>.</u> 1	AN	19		RE	QUE	<b>.9</b> T
EPI Project Man	ager John Good															1		I					
<b>Billing Address</b>	P.O. BOX 1558																						
City, State, Zip	Eunice New Mexi	co 88	231			]			1			屾											
EPI Phone#/Fax	# 505-394-3481 / 50	5-394	-26	D1		] <	_					E.											
<b>Client</b> Company	DUKE ENERGY FIE	LD SI	ERV	ICE	8	1			1		N.	Ĺ											
Facility Name	L-Extension-2					1			4		•	BH S											
Project Reference	ce L-Extension-2 12	1103				1																	
EPI Sampler Na	me Eddle Joe Harper	r	·····	- to an a state		1																	
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONT	GROUND WATER	WASTEWATER	Soll		SLUDGE	OTHER:	ACID/BASE		OTHER .	DATE	PLING	BTEX 8021B	TPH 8015M	CHLORIDES (CT)	SULFATES (SO.")	PH	TCLP	OTHER >>>		
H8890-11	SDLE2122303WSWC	C	1			X					X		23-Dec	8:00	X	X							T
- 7 2	SDLE2122303E8WC	С	1			X					X		23-Dec	8:10	X	X							
-33	SDLE2122303NSWC	C	1	Γ		X					X		23-Dec	8:15	X	X							Т
-4 4	8DLE212230388WC	C	1			X					X		23-Dec	8:20	X	X							T
-5 5	8DLE2122303BHC - 7	Tc	11	T		X					X		23-Dec	8:25	X	X	X	X					T
			-																				

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Sample Cool & Intact

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#### Cardinal Laboratories Inc

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Duke Energy Field Services

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REMARKS:

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Fax Results To John Good 505-394-2601

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Checked By:

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PHONE (915) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: JOHN GOOD P.O. BOX 1558 EUNICE, NM 88231 FAX TO: 505-394-2601

Receiving Date: 12/23/03 Project Owner: DUKE ENERGY FIELD SERVICES Project Number: L-EXTENSION-2 121103 Project Name: L-EXTENSION-T Project Location: NOT GIVEN

Sampling Dates: 12/23/03 Sample Type: SOIL Sample Condition: 4°C & INTACT Sample Received By: JA Analyzed By: JA

LAB ID	SAMPLE ID	TPH	TPH	TPH			ETHYL-	TOTAL
		GRO	DRO	TOTAL	BENZENE	TOLUENE	BENZENE	XYLENES
		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
H8290-1	SDLE2122303WSWC	<50.0	<50.0	<50.0	<0.002	< 0.002	< 0.002	< 0.006
H8290-2	SDLE2122303ESWC	<50.0	<50.0	<50.0	< 0.002	< 0.002	< 0.002	< 0.006
H8290-3	SDLE2122303NSWC	<50.0	<50.0	<50.0	<0.002	< 0.002	<0.002	< 0.006
H8290-4	SDLE2122303SSWC	<50.0	<50.0	<50.0	< 0.002	< 0.002	< 0.002	< 0.006
H8290-5	SDLE2122303BHC -7	582	2910	3490	0.054	0.240	0.216	0.638
			6					
Extraction	n Date	12/24/03	12/24/03	12/24/03	12/24/03	12/24/03	12/24/03	12/24/03
Analysis	Date	12/24/03	12/24/03	12/24/03	12/24/03	12/24/03	12/24/03	12/24/03
Method E	Blank (mg/Kg)	<50.0	<50.0	<50.0	< 0.002	< 0.002	< 0.002	< 0.002
True Valu	ue LCS (mg/Kg)			200	0.100	0.100	0.100	0.300
LCS % R	ecovery			94.4%	96.0%	96.0%	101.0%	93.7%
Matrix Sp	oike RPD			2.1%	8.3%	12.2%	8.5%	6.9%
DATA FL	AGS:						***************	

Methods: TPH SW-846 8015M; BTEX SW-846 8021b, 5030b

Jim Armstrong

<u>12-29</u>-03

#### H8290BTEX8015MENVPLUS.xls

PLEASE NOTE: Liability and Damages. Cardinal's lability 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 incidential or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profils incurred by client, its subsidiaries, affliates or successors anang 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.



PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79803

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

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

Receiving Date: 12/23/03 Reporting Date: 12/24/03 Project Owner: DUKE ENERGY FIELD SERVICES Project Name: L-EXTENSION-2 Project Location: L-EXTENSION-2 121103

Sampling Date: 12/23/03 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: HM

	SO₄	CI
LAB NUMBER SAMPLE ID	( mg/Kg )	( mg/Kg )
ANALYSIS DATE:	12/24/03	12/24/03
H8290-5 SDLE2122303BHC 7	258	32
Quality Control		
True Value QC	53.65	980
% Recovery	50.00	1000
Relative Percent Difference	107	98.0
	1.5	3.1
METHODS: EPA 600/4-79-020	375.4	SM 4500-Cl B

Ch

Date

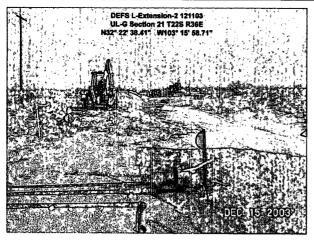
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or ton, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed warved unless made in writing and received by Cardinal within thury (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 profits incourred by client, its subsciences, 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. H8290

District I				State of	f New Mexic	0		Form C-141			
1625 N. French Dr., Hob	bs, NM 88240		Ener	gy Minerals	and Natural	Resources		Revised June 10, 2003			
District II 1301 W. Grand Avenue,	Artesia, NM 88210	D									
District III					ervation Divisi		Submit 2 Copies to appropriate				
1000 Rio Brazos Road, A District IV	Aztec, NM 87410				th St. Francis   Fe, NM 87505		District Office in accordance with Rule 116 on back				
1220 S. St. Francis Dr., S	Santa Fe, NM 8750	)5		Santa	re, inivi 07505			side of form			
		Rele	ease No	tification a	nd Correcti	ve Action					
<b></b>	OI	PERATOR			<b></b>		□ Initial Report	Final Report			
Name of Company	DUKE ENE				Contact	Paul Mulkey					
Address	11525 W. Car	rlsbad Hwy.	Hobbs	, NM 88240	Telephone No.	505-391-5716					
Facility Name	L-Extension-	-2 20"			Facility Type	Natural Gas Ga	thering Pipeline				
Surface Owner	<b>DASCO</b> Cat	tle Co.		Mineral Owner	NA		Lease No.	NA			
			I	OCATION O		<u></u>	• · · · · · · · · · · · · · · · · · · ·				
Unit Letter	Section	Township	Range	Feet from	Feet from	Longitude	Latitude	County:			
G	21	228	36E	South Line 2651	West Line 3837	W103° 15' 58.71"	N32° 22' 38.41''	Lea			
				NATURE OF	RELEASE		• • • • • • • • • • • • • • • • • • •				
Type of Release					Volume of Relea	ase	Volume Recovered				
Natural Gas relea	ase and assoc	iated NGL's			5	bbl	3.5	bbl			
Source of Release					Date and Hour o	of Occurrence	Date and Hour of D	Discovery			
20" Steel Pipeline	e						12/11/03				
Was Immediate Notic					If YES, To Who	om?					
	✓ Yes		Not	Required	Larry Johnso	on - NMOCD, Ha	bbs				
By Whom?	Lynn Ward	- DEFS, Mic	iland		Date and Hour	12/12/03 14:45					
Was a Watercourse F	Reached?				If YES, Volume	Impacting the Water	course.				
			☑ <sub>No</sub>		NA	·····					
If a Watercourse was	Impacted, Desc	ribe Fully.*									
NA											
Describe Cause of Pr	oblem and Rem	edial Action Ta	ken.*								
Internally Corroded	l pipeline, repai	ired by clampi	ing, then re	eplacing pipeline	section						
Describe Area Affect	ed and Cleanun	Action Taken	*				·				
~2000-ft <sup>2</sup> initial surf	•			recovered from (	hhl mlanca D(	DA Evonut Non h	arandana aantamin	atad sail ahawa			
remedial goals was clean caliche and to	excavated from	1,344-ft <sup>2</sup> X 7-	ft excavati	on and disposed	of at the EPI ap	proved land farm.	The excavation was	backfilled with			
I hereby certify that the i	nformation given a	bove is true and o	complete to the	he best of my knowl	edge and understand	that pursuant to NMOC	CD rules and regulations	all operators are			
required to report and/or report by the NMOCD n											
pose a threat to ground	water, surface wate	er, human health c	or the environ								
compliance with any oth	er federal, state, or	local laws and/or	regulations.		· · · · · · · · ·						
Signature: Pan	1 17	The	$\mathcal{N}_{i}$			<u>OIL CONSERV</u>	ATION DIVISION	<u>N</u>			
Printed Name:		Paul Mulke	y y		Approved by Di	strict Supervisor:					
Title:	Construction	n/Maintenan	ice Super	visor	Approval Date:		Expiration Date:				
E-mail Address:	pdmulkey@@	duke-energy	.com		Conditions of A						
Date:	1/16/04	Phone:	505-	-394-3481	Conditions of A	рргоvа::		Attached .			

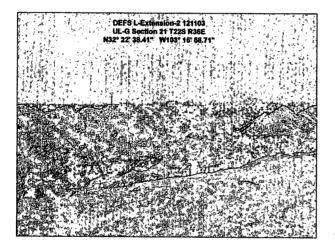
Duke		Incident Date a	nd NMOCD Notified	1?	
Field	Servičés	12/11/03	12/12/03	14:45	<u> </u>
SITE: L-Extensio	n-2 20"		Assigned Site	Reference	121103
Company:	DUKE ENE	ERGY FIELD SE	RVICES		
Street Address:	5805 East	Highway 80			
Mailing Address:	11525 W.	Carlsbad Hwy.			
City, State, Zip:	Hobbs, NN	1 88240			
Representative:	Paul Mulke	ey			- · · · · · · · · · · · · · · · · · · ·
Representative Telepl	none: 505-391-57	716			
Telephone:					
Fluid volume released	l (bbls): 5	Recovered (b	ols): 3.5		
	>25 bbls: Not	ify NMOCD verbally w	ithin 24 hrs and submit for	m C-141 within	15 days.
	5-25 bbls: Submit form C-	141 within 15 days (A	so applies to unauthorized	releases of 50-	500 mcf Natural Gas)
Leak, Spill, or Pit (LSF	ን) Name:	L-Extension-22	0" 1211	03	·
Source of contami <u>nati</u>	on:	20" Steel Pipelin	1e		
Land Owner, i.e., BLN	I, ST, Fee, Other:	DASCO Cattle	Co. 225 E. Bende	r, Suite 150,	Hobbs, NM 88240
LSP Dimensions:		(GPS Site Diag	am attached)		
LSP Area:		~2000 -ft <sup>2</sup>			
Location of Reference	Point (RP):				
ocation distance and	direction from RP:				
Latitude:		N32° 22' 38.41"			
_ongitude:		W103° 15' 58.7	1"		
Elevation above mean	n sea level:	3519 -ft ar	nsl		
Feet from South Secti	on Line:	2651			
Feet from West Section	on Line:	3837			
Location - Unit and 1/4	4 1/4: UL-	G	SW 1/4 of NE	1/4	
Location - Section:		21			
Location - Township:		22S			
Location - Range:		36E			
Surface water body w	ithin 1000' radius of Sit	ie: 0			
Surface water body w	ithin 1000' radius of Sit	ie: 0			
Domestic water wells	within 1000' radius of S	Site: 0			
Domestic water wells	within 1000' radius of S	Site: 0			
Agricultural water well	s within 1000' radius of	f Site: 0			<u></u>
Agricultural water well	s within 1000' radius of	f Site: 0			<u></u>
Public water supply w	ells within 1000' radius	of Site: 0			
	ells within 1000' radius				
	urface to ground water				
		7			
Depth (ft) of contamin		'): 158			
		1		2.0	Distance to Surface Water Body
Depth (ft) to ground w	nd Water	2. Wellhead	Protection Area	ຸ ວ. ເ	istance to builde trater body
Depth (ft) to ground w 1. Grou	nd Water	If <1000' from w			ontal feet: 20 points
Depth (ft) to ground w <b>1. Grou</b> If Depth to GW <50 fe	nd Water pet: 20 points	If <1000' from w <200' from priva	ater source, or, ate domestic water	<200 horizo	ontal feet: 20 points
Depth (ft) to ground w <b>1. Grou</b> If Depth to GW <50 fe If Depth to GW 50 to 1	nd Water pet: 20 points 99 feet: 10 points	If <1000' from w <200' from priva source: <i>20 point</i> If >1000' from w	vater source, or, ate domestic water s vater source, or,	<200 horizo 200-100 h	ontal feet: 20 points orizontal feet: 10 points
Depth (ft) to ground w 1. Ground If Depth to GW <50 for If Depth to GW 50 to 9 If Depth to GW >100	nd Water pet: 20 points 99 feet: 10 points	If <1000' from w <200' from prive source: 20 point If >1000' from w >200' from prive source: 0 points	vater source, or, ate domestic water is vater source, or, ate domestic water	<200 horizo 200-100 h	ontal feet: 20 points
Depth (ft) to ground w <b>1. Groun</b> If Depth to GW <50 fe If Depth to GW 50 to 9 If Depth to GW >100 Ground water Score:	nd Water eet: 20 points 99 feet: 10 points feet: 0 points 0	If <1000' from w <200' from prive source: 20 point If >1000' from w >200' from prive source: 0 points	ater source, or, ate domestic water 's ater source, or, ate domestic water	<200 horizo 200-100 h	ontal feet: 20 points orizontal feet: 10 points zontal feet: 0 points
Depth (ft) to ground w <b>1. Groun</b> If Depth to GW <50 fe If Depth to GW 50 to 9 If Depth to GW >100 Ground water Score:	nd Water eet: 20 points 99 feet: 10 points feet: 0 points 0 0	If <1000' from w <200' from priva source: 20 poim If >1000' from w >200' from priva source: 0 points Wellhead Prote	rater source, or, ate domestic water s rater source, or, ate domestic water ction Area Scor 0	<200 horizo 200-100 h >1000 horiz Surface Wa	ontal feet: 20 points orizontal feet: 10 points zontal feet: 0 points ater Score: 0
Depth (ft) to ground w <b>1. Groun</b> f Depth to GW <50 fe f Depth to GW 50 to 9 f Depth to GW >100 f Ground water Score:	nd Water eet: 20 points 99 feet: 10 points feet: 0 points 0 0	If <1000' from w <200' from priva source: 20 poim If >1000' from w >200' from priva source: 0 points Wellhead Prote	vater source, or, ate domestic water is vater source, or, ate domestic water	<200 horizo 200-100 h >1000 horiz Surface Wa	ontal feet: 20 points orizontal feet: 10 points zontal feet: 0 points ater Score: 0
Depth (ft) to ground w 1. Ground If Depth to GW <50 fe If Depth to GW 50 to If Depth to GW >100 f Ground water Score: Site Rank (1+2+3) = Parameter	nd Water eet: 20 points 99 feet: 10 points feet: 0 points 0 0	If <1000' from w <200' from priva source: 20 poim If >1000' from w >200' from priva source: 0 points Wellhead Prote	rater source, or, ate domestic water s rater source, or, ate domestic water ction Area Scor 0	<200 horizo 200-100 h >1000 horiz Surface Wa	ontal feet: 20 points orizontal feet: 10 points zontal feet: 0 points ater Score: 0
Depth (ft) to ground w 1. Ground If Depth to GW <50 for If Depth to GW 50 to 9 If Depth to GW >100 for Ground water Score: Site Rank (1+2+3) = Parameter Benzene <sup>1</sup>	nd Water eet: 20 points 99 feet: 10 points feet: 0 points 0 0 Total S	If <1000' from w <200' from priva source: 20 poim If >1000' from w >200' from priva source: 0 points Wellhead Prote	rater source, or, ate domestic water s rater source, or, ate domestic water ction Area Scor 0 re and Acceptable	<200 horizo 200-100 h >1000 horiz Surface Wa	ontal feet: 20 points orizontal feet: 10 points zontal feet: 0 points ater Score: 0
Depth (ft) of contamin Depth (ft) to ground w 1. Ground If Depth to GW <50 fe If Depth to GW 50 to 9 If Depth to GW >100 f Ground water Score: Site Rank (1+2+3) = Parameter Benzene <sup>1</sup> BTEX <sup>1</sup>	nd Water eet: 20 points 99 feet: 10 points feet: 0 points 0 0 Total S 20 or >	If <1000' from w <200' from priva source: 20 poim If >1000' from w >200' from priva source: 0 points Wellhead Prote	rater source, or, ate domestic water stater source, or, ate domestic water ction Area Scor 0 re and Acceptable 10	<200 horizo 200-100 h >1000 horiz Surface Wa	ontal feet: 20 points orizontal feet: 10 points zontal feet: 0 points ater Score: 0 ions 0

<u>District I</u>			te of New Mexico		Form C-138		
1625 N. French Dr., Ho	obbs, NM 88240	Energy Mine	rals and Natural Resou	rces	Revised March 17, 1999		
District II 1301 W. Grand Avenue	e, Artesia, NM 88210	0.1.0		S. L.	it ) Conies to expression		
District III 1000 Rio Brazos Road.	Anton NIM 97410		Conservation Division		it 2 Copies to appropriate trict Office in accordance		
District IV	Aztec, NM 87410		South St. Francis Dr.	DIS	with Rule 116 on back		
1220 S. St. Francis Dr.,	Santa Fe, NM 87505	Sa	nta Fe, NM 87505		side of form		
1220 S. St. Planets DI.,	, Sana TC, 1001 07505				side of form		
	REQ	JEST FOR APPROV	VAL TO ACCEPT SC	DLID WASTE			
1. RCRA Exempt:	X Non-I	Exempt:		4. Generator: DUKE ENERGY FIELD SERVICES			
Verbal Approva	Beceived?	Yes X No		5. Originating Site Designation			
verbar Approva				L-Extension-2 20"	121103		
2. Management Fa				6. Transporter:			
		nental Plus, Inc. Land F	Farm #NM-01-0013	Environmental F	Plus, In <u>c.</u>		
3. Address of Faci	• •			7. State			
		enue O, P.O. Box 1558,	Eunice, NM 88231	New Mexi	<u>co</u>		
8. Location of Mat UL-	erial (Street Addre G Section		R 36E				
9. <u>Circle One</u> :							
(A)			mpt wastes will be accompar	ied by a certification of waste	e status from the		
	Generator; one c						
В.			ot wastes must be accompanie Generator's certification of o	, , , , , , , , , , , , , , , , , , , ,			
	listing or testing :	shall be approved.					
	All transporters	must certify the wastes de	elivered are only those cons	igned for transport.			
BRIEF DESCRIPT	TION OF MATERIA	AL:					
	Contaminated	l Soil(s): hydrocarbon r	elease involving -				
		Gas release and assoc					
Estimated Volume:	<b>600</b> yd <sup>3</sup> .	Known volume (to be entered	by the operator at the end of the	haul: (yd <sup>3</sup> ) <b>861</b>	yd <sup>3</sup>		
SIGNATURE		the thank		entel Consultant DATE	10/10/02		
SIGNATURE		gement Facility Authorized Agen		ental Consultant DATE:	12/19/03		
TYPE OR PRIN		John Good	TELEPHONE NO .:	505-394-3481 FAX:	505-394-2601		
(This space for Sta	te Use)						
	• •						
APPROVED BY	•		TITLE:	DATE:			
APPROVED BY			TITLE:	DATE:			

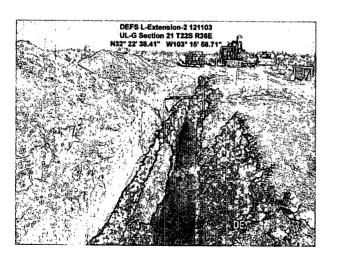




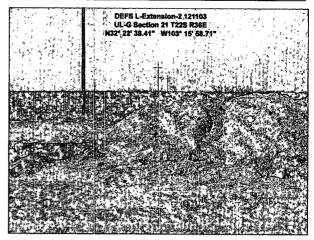
Initial Response: south looking north



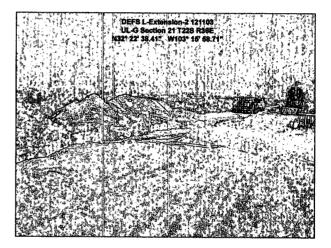
Initial Response: contaminated stockpile



Initial Response: pipe section due for replacement



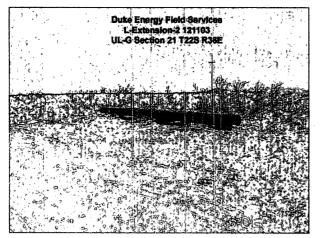
Initial Response: clean soil stockpiled by DEFS



Initial Response: view from SE

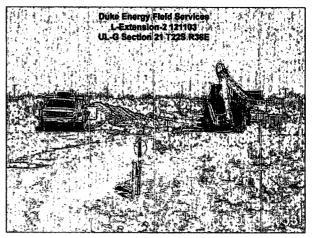


Initial response: POR + saturated sidewall

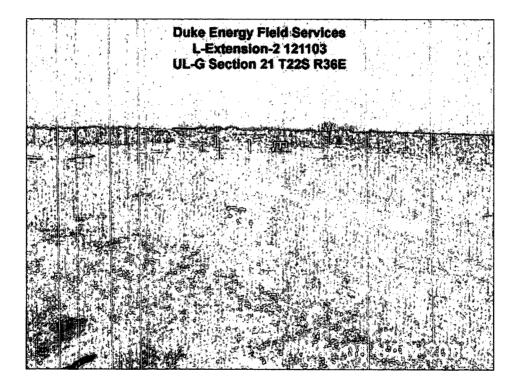


Second day: Pipe section removed

k



Second day: Site from SE



Closed Site: backfilled and contoured

District I				State of New Mexico				Form C-141	
1625 N. French Dr., Hobbs, NM 88240 Energy Mines			gy Minerals	and Natural	Resources		Revised June 10, 2003		
District II 1301 W. Grand Avenue,	Artesia NM 8821	0							
District III	100000, 1001 0021	•		<b>Oil Conse</b>	rvation Divisi	on	Submit 2	Copies to appropriate	
1000 Rio Brazos Road, A	Azicc, NM 87410			1220 Sout	h St. Francis l	Dr.		t Office in accordance	
District IV 1220 S. St. Francis Dr., 3	Canto Eo. NB <i>4</i> 975	0.6		Santa 1	Fe, NM 87505 with Rule 116 or				
1220 S. St. Flatters EA.,	Salia PG, MM 675		ooso No	tification a	d Correcti	ve Action		side of form	
	0	REI PERATOR	Case Inu			ve Action	Initial Report	Final Report	
Name of Company	DUKE ENE		SEDVI		Contact	Paul Mulkey			
Address					Telephone No.	505-391-5716			
Facility Name	11525 W. Carlsbad Hwy. Hobbs, NM 88240 me L-Extension-2 20"			Facility Type Natural Gas Gathering Pipeline					
<u> </u>				10	·····				
Surface Owner	DASCO Cat	tle Co.		Mineral Owner			Lease No.	NA	
TTELEY		Translin		OCATION O		T	Televis	Constan	
Unit Letter	Section	Township	Range	Feet from South Line	Feet from West Line	Longitude	Latitude	County:	
G	21	22S	36E	2651	3837	W103° 15' 58.71"	N32° 22' 38.41"	Lea	
				NATURE OF	RELEASE				
Type of Release					Volume of Relea	ase	Volume Recovered		
Natural Gas relea	ase and assoc	iated NGL's			5	ьы	3.5 bbl		
Source of Release				******	Date and Hour of	of Occurrence	Date and Hour of Discovery		
20" Steel Pipeline	e						12/11/03		
Was Immediate Noti	ce Given?				lf YES, To Who	om?			
	🖬 Yes	🗖 <sub>No</sub>	D Not	Required	Larry Johnson - NMOCD, Hobbs				
By Whom?	Lynn Ward	- DEFS, Mi	iland		Date and Hour 12/12/03 14:45				
Was a Watercourse					If YES, Volume Impacting the Watercourse.				
		• Yes	De <sub>No</sub>		NA 5 19202122				
If a Watercourse was	s Impacted, Des	cribe Fully.*	÷			110	- The state of the	<u></u>	
NA						7 22	2.		
						2 0350			
Describe Cause of Pr	roblem and Rem	nedial Action T	aken.*			213 14 15 16 24 CD0 Sq00H CT CT CT CT CT CT CT CT CT CT	X	<u> </u>	
Internally Corrode				eplacing pipeling					
				· /		CRA Exempt Non-It	5		
Describe Area Affect	ted and Cleanur	Action Taken	*						
	-					CRA Exempt Non-h	20	and soll above	
~2000-it midai sur	excavated from	allected, 5.5-0 n 1 344_ft <sup>2</sup> X 5	-ft excavat	recovered from ion and disposed	5-001 release. K I of at the FPI a	pproved land farm.	azardous contamin The excevation wa	ated soil above a backfilled with	
clean caliche and to						Pprovou mite manue			
I hereby certify that the	information given a	hove is true and	complete to ft	e hest of my knowle	doe and understand	that pursuant to NMOCI	) rules and regulations a	Il operators are	
required to report and/or	r file certain release	notifications and	perform corr	ective actions for rel	eases which may end	danger public health or th	e environment. The ac	ceptance of a C-141	
report by the NMOCD a pose a threat to ground						ave failed to adequately it of a C-141 report does n			
compliance with any oth									
Signature: Pa	17	Mul.	ky			OIL CONSERV	ATION DIVISION		
Printed Name: Paul Mulkey				Approved by District Supervisor:					
Title:	Constant					• • • • • • • • • • • • • • • • • • •			
Title:	Construction	IV IVIAINTENAI	w super	/ISOF	Approval Date:		Expiration Date:		
E-mail Address:	pdmulkey@	duke-energ	y.com						
Date:	1/16/04	Phone:	505	-391-5716	Conditions of A	pproval:		Attached .	