

NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Betty Rivera
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

December 9, 2002

Mr. Paul Mulkey Duke Energy Field Services 11525 W. Carlsbad Hwy Hobbs, NM 88240 pdmulkey@duke-energy.com

Re:

Closure Approval, D-2-1 Release Site

Site Reference UL-P, Sec-11 T-18S R-38E Initial Notification Date: September 17, 2002 Closure Request Dated: December 3, 2002

Dear Mr. Mulkey,

The **Final Closure Document** submitted to the New Mexico Oil Conservation Division (OCD) by Environmental Plus, Inc. for Duke Energy Field Services is **hereby approved**. A copy of the follow up report of the natural attenuation evaluation to be conducted in May or June of 2003 would be appreciated. According to the information provided, no further action is required at this time.

Please be advised that OCD approval does not relieve Duke Energy Field Services of liability should remaining contaminants pose a future threat to ground water, surface water, human health or the environment. Additionally, OCD approval does not relieve Duke Energy Field Services of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you have any questions or need assistance please feel free to call me at (505) 393-6161, x111 or email lwjohnson@state.nm.us

Sincerely,

Larry Johnson - Environmental Engineer

Cc:

Roger Anderson - Environmental Bureau Chief

Chris Williams - District I Supervisor

Bill Olson - Hydrologist

Paul Sheeley-Environmental Engineer

District I

1625 N. French Dr., Hobbs, NM 88240

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised March 17, 1999

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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back

side of form

		Rele	ease Noti	ification a	and Corr	ective Action					
	(OPERATO!	R			☐ Initial Report	Final Report				
Name of Con	npany				Contact						
Duke Energ	y Field Servi	ces			Paul Mulkey						
Address	<u> </u>				Telephone No.						
11525 West	Carlsbad Hy	wy, Hobbs, N	M 88240		505-397-571	6					
Facility Nam				•	Facility Type	;					
D-2-1 Line					Natural Gas						
					·						
Surface Own	er			Mineral Own	ner		Lease No.				
VMJ, Inc. (Vernon M. J	ones)		NA			NA				
			LO	DCATION	OF RELEA	SE					
Unit Letter	Section	Township	Range	Feet from	Feet from	Longitude	Latitude	County:			
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				550	4612						
			1	NATURE O							
Type of Rele					Volume of R		Volume Recovered				
		ted liquid cor	nponents		>15	ur of Occurrence		bbl			
Source of Re		n a			Unknown	ur of Occurrence	Date and Hour of D 09/17/02 AM	iscovery			
Steel Natural Gas Pipeline Was Immediate Notice Given?					If YES, To V	Vhom?	0211102 AM				
, vide minious	☐ Yes	☑ No	□ Not R	equired	NA	· 11/2111					
By Whom?					Date and Ho	ur					
NA					NA						
Was a Water	course Reach	ned?			If YES, Volu	me Impacting the W	atercourse.				
		□ Yes	☑ No		NA		56780-				
If a Watercon	urse was Impa	acted, Describ	e Fully.*			/	23° A				
						[/	*. ***********************************	(S)			
Describe Car	use of Problem	m and Remedi	al Action Tal	ken.*		ent planned.	nec - on	777			
Internal pip	eline corrosi	on, pipe secti	on removed,	looped, event	tual replacem	ent planned.	h- imps	15167			
Describe Are	a Affected ar	nd Cleanup A	ction Taken.			15	OCO	3'/			
~9600-ft ² su	rface area affe	ected (3 releas	ses + flowpatl	n). Remediatio	on documenta	tion attached.		[9 [*] /			
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							nd that pursuant to NM				
							tions for releases which loes not relieve the open				
							und water, surface wate				
or the environ	ment. In additi	ion, NMOCD a	ecceptance of a				nsibility for compliance				
federal, state, o	or local laws an	d/or regulations									
Signature:	Poul)	MI	les.			OIL CONSERVA	ATION DIVISION				
Duint 3 37		David Mari			1						
Printed Nam	e:	Paul Mulke	y 		Approved by	District Supervisor					
Title:	Constr	uction & Ma	intenance Su	pervisor	Approval Da	te:	Expiration Date:				
Date:	12/3/02	Phone:	505-39	97-5716	Conditions of	of Approval:		Attached			

DUKE ENERGY FIELD SERVICES



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

D-2-1 RELEASE SITE DEFS REF: D-2-1 091702

UL-P SE'4 OF THE SE'4 OF SECTION 11 T18S R38E

~2.3 MILES NORTHEAST OF HOBBS

LEA COUNTY, NEW MEXICO

LATITUDE: 32°45'22.91"N

LONGITUDE: 103% 6745.38" W

DECEMBER 3, 2002

PREPARED BY: JCG

Environmental Plus, Inc.

2100 Avenue O

P.O. Box 1558

Eunice, NM 88231

Phone: (505)394-3481

FAX: (505)394-2601

ENVIPLUS 10 AOL. COM



ENVIRONMENTAL PLUS, INC. MICO-BLOZO MICO-GAM

STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

December 3, 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 – D-2-1 091702 Final C-141 and Closure Documentation

Dear Mr. Johnson:

Environmental Plus, Inc. (EPI), on behalf of Duke Energy Field Services (DEFS) submits for your consideration and approval the Final C-141 and Closure Documentation for the "D-2-1 091702" remediation site. This report documents the vertical and horizontal extents of hydrocarbon and inorganic constituent contamination at the site, removal of contaminated soils above acceptable CoC levels, and the disposal of said contaminated soils in a NMOCD approved land farm consistent with the Initial C-141 and Remediation Plan submitted to NMOCD on September 19, 2002. EPI, on behalf of DEFS, 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,

Nohn Good, Environmental Consultant

cc: Paul Mulkey, Duke Energy Field Services, w/enclosure Eddie Seay, Environmental Consultant to VMJ, Inc.

Sherry Miller, EPI President

Ben Miller, EPI Vice President and General Manager

Pat McCasland, EPI Technical Manager

File

P.O. BOX 1558 ••• 2100 AVENUE O ••• EUNICE, NEW MEXICO 88231
TELEPHONE 505•394•3481 ••• FAX 505•394•2601

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Executive Summary

Environmental Plus, Inc. (EPI) was notified by Duke Energy Field Services (DEFS) on 17-Sept-02 regarding a pipeline release site involving DEFS' "D-2-1" 8-inch natural gas gathering pipeline. DEFS' initial C-141 (17-Sept-02) indicates a natural gas liquid (NGL) release in excess of 15 bbl. The leak was a result of internal pipeline corrosion. Repairs were made on the 8-inch steel pipeline line at two locations within the exposed pipeline section by clamping. Ultimately the pipeline was looped around the project site.

Characterization and remedial work at the site was done by EPI during the period 17-Sept-02 through 25-Nov-02. The "D-2-1 091702" site is located ~2.3-miles northeast of Hobbs, NM, in UL-P, Section 11 T18S R38E. The spill occurred on property owned by VMJ, Inc. (Vernon M. Jones of Moran, TX). The surface extent of the 9-17-02 reported spill was approximately 4,022-ft² plus an additional overspray area of approximately 22,000-ft² (see Plate 3, Attachments). The vertical extent of contamination ranged from 13-ft in Excavation-A to 4-ft in Excavation-C and the flow path.

EPI excavated and disposed of 1,904-yd³ of contaminated soil from the site commencing on 17-Sept-02. Composite bottom-hole and sidewall soil samples were submitted to Cardinal Laboratories, Hobbs, NM on 17-Oct-02 and 07-Nov-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. Calcium sulfate levels in Excavation-B remain above the NMWQCC ground water standard of 600 ppm. Due to the depth to ground water at the site (> 50-ft) and the insolubility of calcium sulfate in alkaline soils, EPI determined that leaving the sulfate containing soil in place would pose no potential danger to the ground water beneath the site.

All contaminated soil removed from the site was disposed of at the NMOCD approved J&L Land Farm. The excavation was backfilled with clean caliche and topsoil purchased from the landowner. The site was contoured to prevent pooling over the excavation sites. The surface damaged area beyond road or pipeline rights-of-way will be evaluated for new vegetative growth in Spring-2003 and reseeded with natural grasses if determined necessary.

1.0 Introduction

This report addresses the site investigation and remediation of the DEFS "D-2-1 091702" natural gas 8" gathering line remediation site. EPI was notified on September 17, 2002 by DEFS regarding a natural gas and associated NGL release at this site. The initial C-141 Form submitted to NMOCD (19-Sept-02) reports the release volume (NGL) as 15 bbl. EPI responded the same day (9-17-02) and commenced GPS delineation, photography, characterization and preliminary excavation of the contaminated soil in the immediate area of the reported leak. The site initially consisted of an area ~100-ft X ~20-ft associated with the Point of Release (POR) and a linear surface flow area extending south from the POR ~300-ft. The total release affected area comprised ~4.022-ft² in addition to an overspray area of ~22,000-ft² extending south-eastward from the POR. Subsequent to the initial excavation activities at the site, two historical release sites were noted approximately 100ft and 200-ft west of the reported site. DEFS management advised EPI to excavate and remediate these two additional sites and include them in the overall scope of the project. The excavations were now designated A, B and C (from east to west), with the flow path extending south from Excavation A. Remediation of the three release sites and the flow path consisted of excavation and disposal of contaminated soil, soil analyses, backfilling and contouring of the excavations. Remediation of the site was completed on 25-Nov-02.

2.0 Background

The site is associated with the DEFS D-2-1 natural gas 8" pipeline. This release site is located in Unit Letter P, (SE¼ of the SE¼), Section 11, T18S, R38E, (32°45'22.91"N and 103°06'45.38"W), and approximately 2.3 miles northeast of Hobbs, NM. The property is owned by VMJ, Inc. (Vernon M. Jones) of Moran, TX. A location map, topographical map of the site and detailed GPS site diagrams are included as Attachments.

The natural gas and associated NGL release at this site was discovered and reported on 17-Sept-02. The leak was the result of internal pipe corrosion. The pipe was initially clamped and repaired by DEFS personnel. Ultimately, the line was looped around the section with integrity problems and will be replaced with a new section of steel or poly pipe.

3.0 Site Description

3.1 Geological Description

The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and Ground-Water Conditions in Southern Lea County, New Mexico," A. Nicholson and A. Clebsch, 1961, 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 High Plains physiographic subdivision, described by Nicholson & Clebsch as an area "capped by a thick layer of resistant caliche, locally called caprock." The High Plains surface is uniformly flat and slopes ~17-ft per mile east-southeast.

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 65-ft to 80-ft bgs. The site is located in the High Plains (Llano Estacado) physiographic area approximately 2.3-miles northeast of Hobbs, NM. Water Column Reports obtained from the NM State Engineers Office indicate average water depths 65-ft to 80-ft bgs in the north-east quadrant of Township 18S; Range 38E. Ground water gradient in this area is generally to the southeast. (Plate 5 in the Attachments is a summary of the average water depths in the nine sections comprising the NE quadrant of T18S; R38E).

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), 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 10 points with the soil remedial goals highlighted in the Site Ranking table presented below.

1. Ground	l Water	2. Wellhead Prot	ection Area	3. Distance to Surface Water		
Depth to GW 20 poi		If <1000' from wate		<200 horizontal feet: 20 points		
Depth to GW 5		source: 20		200-1000 horizontal feet: 10 points		
Depth to GW 0 poi		If >1000' from wate >200' from private of source: 0 j	lomestic water	>1000 horizontal feet: <i>0 points</i>		
Ground Water	Score = 10	Wellhead Protecti	on Score= 0	Surface Water Score= 0		
· · · · · · · · · · · · · · · · · · ·	Site Rank	(1+2+3) = 10 + 0 + 0	= 10 points (fo	r soil 0-15'bgs)		
To	otal Site Rank	ing Score and Accept	table Remedial G	Goal Concentrations		
Parameter	20 (soil :	• 15" bgs) (10 (soil 0 – 15'bg	S) 0		
Benzene ¹	10	opm	10 ppm	10 pom		
BTEX1	50	opm	50 ppm	50 ppm		
TPH	100	ppm	1000 ppm	5000 ppm		
	¹ 100 ppm field	VOC headspace measure	ment may be subst	ituted for lab analysis		

5.0 Subsurface Soil Investigation

The first subsurface soil samples were composite samples taken from the bottoms and sidewalls of Excavations A, B and C on 10-16-02, and from the flow path and pooling area on 10-17-02. Lab analyses results of this first sampling event confirmed the following:

- ♦ The flow path and south pooling area retained no hydrocarbon, chloride or sulfate contamination above the remedial goals.
- ♦ The bottom (12-ft) of Excavation-A retained a chloride concentration of 416 ppm, above the ground water standard of 250 ppm.
- ♦ The bottom (10-ft) and all sidewalls of Excavation-B retained chloride concentrations > 250 ppm and sulfate concentrations greater than the ground water standard of 600 ppm. All hydrocarbon contamination in this excavation was below remedial goals at this excavation extent.
- ♦ The east sidewall of Excavation-C retained a TPH concentration > 1000 ppm. The east and south sidewalls retained sulfate concentrations > 600 ppm.

Based on the above findings, the excavations were extended as follows:

Excavation-A was further excavated down to 13-ft bgs to achieve chloride levels < 250 ppm.

Excavation-B was further excavated down to 12-ft bgs, and all sidewalls were extended 3-ft to achieve chloride levels < 250 ppm and sulfate levels < 600 ppm.

Excavation-C was not excavated beyond the 4-ft depth; all sidewalls were extended 4-ft to achieve TPH levels < 1000 ppm and sulfate levels < 600 ppm.

The three excavations were re-sampled on 11-07-02. Lab analyses results of this sampling event indicated the following:

- Excavations-A and -C were below remedial goals for hydrocarbons, chloride and sulfate.
- ♦ Excavation-B retained a bottom hole (12-ft) sulfate concentration of 1800 ppm. Retained sidewall chloride concentrations ranged from 32 ppm to 320 ppm; and sidewall sulfate concentrations ranged from 18 ppm to 3700 ppm.

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 estimated to be 65-ft to 80-ft bgs at the site. The site was excavated to a maximum depth of 13-ft (Excavation-A). Final CoC levels of the bottom-hole and sidewalls of the excavation(s) were analyzed to be within the following ranges: TPH - 0 to 163 ppm; Benzene - 0 to 0.005 ppm; BTEX - 0 to 0.030 ppm; Chloride - 32 ppm to 320 ppm; Sulfate - 18 ppm to 3701 ppm.

The excavation was backfilled with clean caliche and topsoil obtained from the property owner. Based on the removal the Constituents of Concern and the immobility (see 6.1 below) of the calcium sulfate left in place in Excavation-B, there will be no need for further ground water investigation at this site.

6.1 Sulfate Mobility

The high SO₄ ion concentrations displayed in many natural gas and/or crude oil release sites are a direct result of the chemical reaction between the hydrogen sulfide (H₂S) associated with the released hydrocarbons and the calcium carbonate (CaCO₃) predominantly present as caliche in the subsurface strata overlying the aquifer(s) of Southeast New Mexico and West Texas. The ultimate products of this chemical reaction are hydrated calcium sulfate (CaSO₄ • H₂O) and carbon dioxide (CO₂). Hydrated calcium sulfate is better known as the common mineral gypsum. Calcium sulfate is soluble in water, however, only very slightly in an alkaline environment. With soil pH levels of 8.0+, calcium sulfate is essentially insoluble, thus immobile, when considering the possibility of leaching the sulfate vertically downward towards any existing ground water aquifer. It is EPI's standard operating procedure to leave sulfate contaminated soils in place if the only constituent of concern is the sulfate component at concentrations above the ground water standard of 600 ppm. The expense of excavation and disposal of a basically immobile contaminant ion is not justified when sulfate is the only constituent of concern.

7.0 Remediation

Remediation of the site commenced on 17-Sept-02 and continued through 25-Nov-02. Remediation of the site consisted of excavation and disposal of 1904 yd³ of contaminated soil from the three excavations (A, B and C), and the shallow excavation of the southerly flow path emanating from the Excavation-A site. All contaminated soil removed from the site was disposed of in the NMOCD approved J&L land farm located south of Hobbs, NM. The three excavations at the site were backfilled up to 18-inches below surface level with clean caliche purchased from the land owner. The top 18-inches of each excavation and the southerly flow path were backfilled with clean topsoil purchased from the land owner. 18-inches of topsoil was removed from the southern and western lateral extents of Excavation-B, and replaced with clean topsoil. This was done to remove high sulfates in the root-zone, thus facilitating re-vegetation of the area.

The excavated areas (A, B, C and flow path) were composite sampled initially on the 16th and 17th of October. Analyses indicated that further excavation was necessary to achieve remedial goals in the three excavations. Additional soil was removed from each excavation and re-sampling was performed on 7-Nov. Analyses of these samples indicated attainment of remedial goals with the exception of high sulfates remaining in Excavation-B (as discussed in Section 6.1).

The surface damaged area of the project was determined by GPS to be 70,000-ft². As regards the 22,000-ft² overspray area, it was agreed with the land owner's environmental consultant (Mr. Eddie Seay) to not disturb the area and evaluate natural attenuation in May or June of 2003.

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 the J&L 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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DEFS D.2-1 Line 1702 Pipeline Release Stee 1822 45 22 N. W103 06 45 38"

Plate 1: Site Location Map

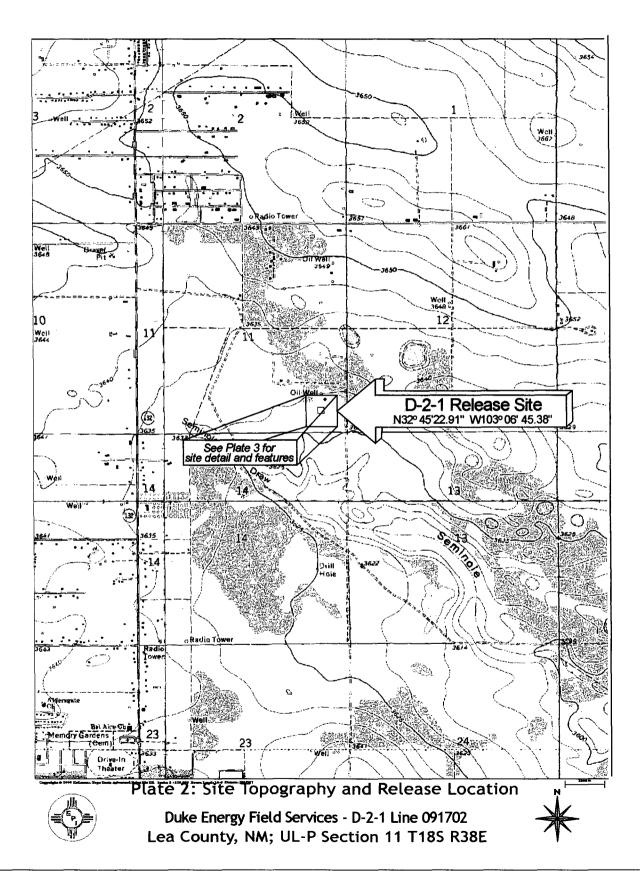


Plate 1: Release Site Location

Duke Energy Field Services - D-2-1 Line 091702

Lea County, NM; UL-P Section 11 T18S R38E





Duke Energy Field Services

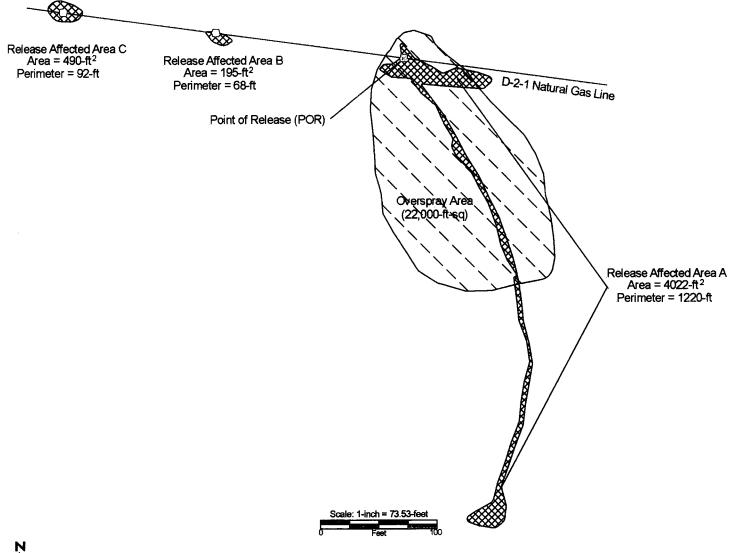
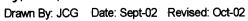
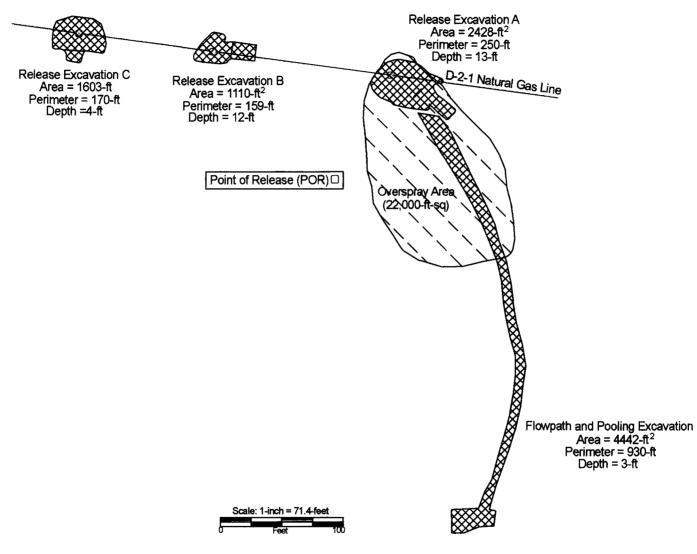


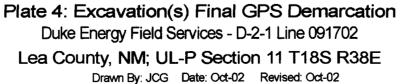


Plate 3: Release Site Initial GPS Demarcation Duke Energy Field Services - D-2-1 Line 091702 Lea County, NM; UL-P Section 11 T18S R38E











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Duke Energy Field Services

Plate 4: Final Excavation(s) GPS Demarcation

Plate 5 - Nine Section Ground Water Depth Summary

Number of Wells = 163 3 61.5 Avg Water Depth	Number of Wells = 175 2 65.5 Avg Water Depth	Number of Wells = 13 1 74.1 Avg Water Depth
Number of Wells = 212 10 66.3 Avg Water Depth	Number of Wells = 15 11 79.8 Avg Water Depth	Number of Wells = 6 12 68.5 Avg Water Depth
Number of Wells = 282 15 65.4 Avg Water Depth	Number of Wells = 28 14 66.3 Avg Water Depth	Number of Wells = 2 13 38 Avg Water Depth
896 Total	wells; Average Water Dept	th = 65.3-ft

Duke	
Energy	
Field S	
Services	

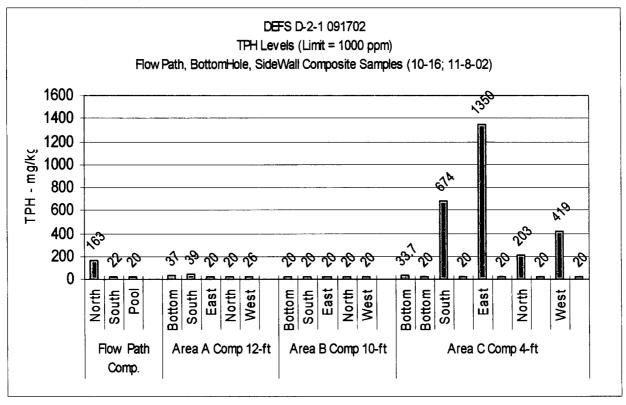
Bold	highlighted cells indi	cate values	in excess of the NMOCD	remedial the	esholds: TP	H = 100 or 1	000 mg/Kg	Benzene =	10 mg/Kg; E	3TEX = 50 n	ng/Kg; Cl = :	250 mg/Kg;	SO4 = 600 n	ng/Kg
Sample Date	Excavation Sampling Area	Depth (ft - bgs ¹)	SAMPLE ID#	GRO ³ mg/Kg	DRO⁴ mg/Kg	TPH ⁵ mg/Kg	BTEX ⁶ mg/Kg	Benzene mg/Kg	Toluene mg/Kg	Ethyl Benzene mg/Kg	Total Xylenes mg/Kg	Cl ⁻ mg/Kg	SO₄ mg/Kg	рH
17-Oct	FlowPath North	2-ft	DD21101702FPN	10	153	163	0.030	0.005		0.005	0.015	144	109	8.29
17-Oct	FlowPath South	2-ft	DD21101702FPS	10	12	22	0.030	0.005	0.005	0.005	0.015	256	56	7.8
17-Oct	FlowPath Pool Area	2-ft	DD21101702POOL	10	10	20	0.030	0.005	0.005	0.005	0.015	144	52	8.7
E	xcavation A													
16-Oct	BottomHole	12-ft	DD21A101602BHC	10	27	37	0.030	0.005	0.005	0.005	0.015	416	68	7.2
8-Nov	BottomHole	13-ft	SDD21110802ABHC-13			1						144		
16-Oct	SideWall - South	8-12-ft	DD21A101602SSW	10	29	39	0.030	0.005	0.005	0.005	0.015	64	55	7.79
16-Oct	SideWall - East	8-12-ft	DD21A101602ESW	10	10	20	0.030	0.005	0.005	0.005	0.015	176	135	7.69
16-Oct	SideWall - North	8-12-ft	DD21A101602NSW	10	10	20	0.030	0.005	0.005	0.005	0.015	96	221	7.80
16-Oct	SideWall - West	8-12-ft	DD21A101602WSW	10	16	26	0.030	0.005	0.005	0.005	0.015	128	414	7.9
E	xcavation B													
16-Oct	BottomHole	10-ft	DD21B101602BHC	10	10	20	0.030	0.005	0.005	0.005	0.015	· 752	9049	7.8
21-Oct	BottomHole	12-ft	SDD21102102BBH-12									736	217	8.6
7-Nov	BottomHole	12-ft	SDD21110802BBHC-12									144	1858	
21-Oct	BottomHole	14-ft	SDD21102102BBH-14		-							784	46	8.6
16-Oct	SideWall - South	6-10-ft	DD21B101602SSW	10	10	20	0.030	0.005	0.005	0.005	0.015	938	9182	7.8
7-Nov	SideWall - South	8-12-ft	SDD21110802BSSWC									320	3701	
16-Oct	SideWall - East	6-10-ft	DD21B101602ESW	10	10	20	0.030	0.005	0.005	0.005	0.015	928	1126	7.9
7-Nov	SideWall - East	8-12-ft	SDD21110802BESWC			Ì						32	18	
16-Oct	SideWall - North	6-10-ft	DD21B101602NSW	10	10	20	0.030	0.005	0.005	0.005	0.015	400	42	8.03
7-Nov	SideWall - North	8-12-ft	SDD21110802BNSWC		Ì							320		
16-Oct	SideWall - West	6-10-ft	DD21B101602WSW	10	10	20	0.030	0.005	0.005	0.005	0.015	672	740	8.00
7-Nov	SideWall - West	8-12-ft	SDD21110802BWSWC									128		
E	cavation C													
16-Oct	BottomHole	4-ft	DD21C101602BHC	10	24	34	0.030	0.005	0.005	0.005	0.015	48	295	8.00
7-Nov	BottomHole	4-ft	SDD21110802CBHC-4	10		10						48	29	
16-Oct	SideWall - South	2-4-ft	DD21C101602SSW	10	664	674	0.030	0.005	0.005	0.005	0.015	64	1838	7.87
7-Nov	SideWall - South	2-4-ft	SDD21110802CSSWC	10	10	20							67	
16-Oct	SideWall - East	2-4-ft	DD21C101602ESW	10	1340	1350	0.030	0.005	0.005	0.005	0.015	80	2084	7.82
7-Nov	SideWall - East	2-4-ft	SDD21110802CESWC	10	10	20							18	
16-Oct	SideWall - North	2-4-ft	DD21C101602NSW	10	193	203	0.030	0.005	0.005	0.005	0.015	64	448	7.97
7-Nov	SideWall - North	2-4-ft	SDD21110802CNSWC	10	10	20								
16-Oct	SideWall - West	2-4-ft	DD21C101602WSW	10	409	419	0.030	0.005	0.005	0.005	0.015	64	288	7.90
7-Nov	SideWall - West	2-4-ft	SDD21110802CNSWC	10	10	20								
17-Oct	Background	Surface	DD21101602BG									80	308	8.43

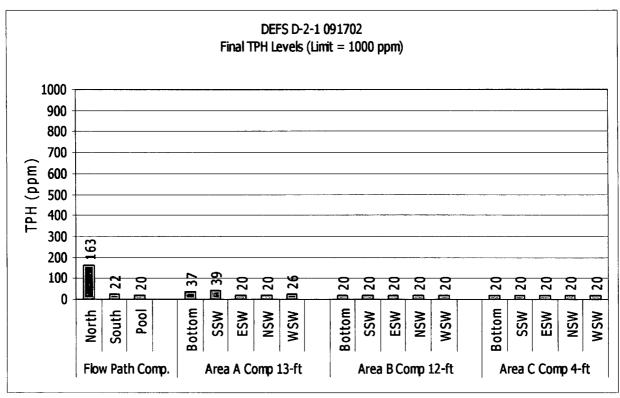
1 bgs = below ground surface 3 GRO - Gasoline Range Organics (Detection Limit = 10 mg/Kg) 4 DRO - Diesel Range Organics (Detection Limit = 10 mg/Kg)

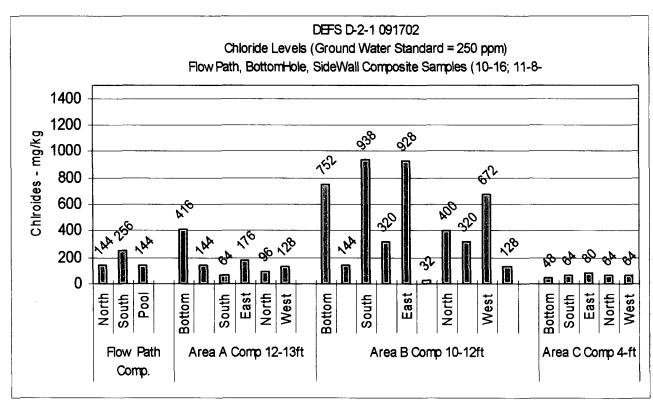
⁴ DRO - Diesel Range Organics (Detection Limit = 10 mg/Kg) ⁵ TPH - Total Petroleum Hydrocarbon (GRO+DRO)

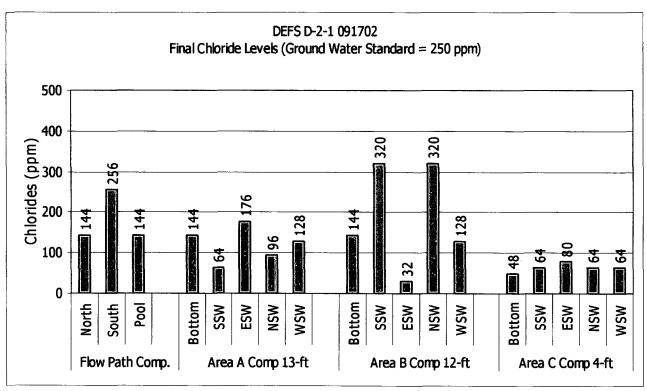
³GRO - Gasoline Range Organics (Detection Limit = 10 mg/Kg) BTEX = Sum of CoC's (Detection Limits = 0.005 mg/Kg; 0.015 mg/Kg) Note: Reported detection limits are considered "de minimus" values and are included in the TPH and BTEX summations.

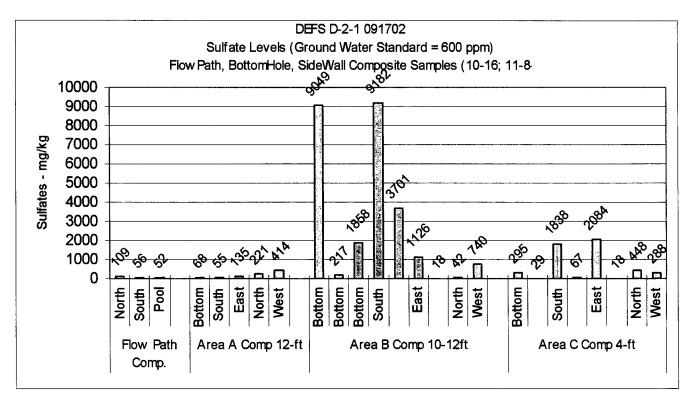
Bar Charts: Composite TPH, Chloride and Sulfate Analyses

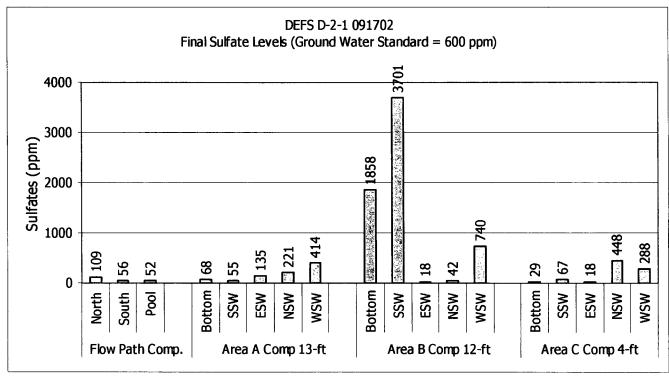












Lab Analyses Reports and Chain-of-Custody Forms





ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: PAT McCASLAND

P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 09/24/02 Reporting Date: 09/27/02 Project Number: NOT GIVEN

Project Name: D-2-1

Project Location: NOT GIVEN

Sampling Date: 09/24/02 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: AH

TCLP METALS

LAB NO.	SAMPLE ID	As	Ag	Ва	Cd	Cr	Pb	Hg	Se
		ppm	ppm	ppm	ppm	ppm	ı ppm	ppm	ppm
ANALYSIS	DATE:	09/27/02	09/27/02	09/27/02	09/27/02	09/27/02	09/27/02	09/27/02	09/27/02
EPA LIMITS	S:	5	5	100	1	5	5	0.2	1
H7064-1	SDD2192402-SPHAZ	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
ļ									
	A STUDMENT FOR THE PARTY OF THE								
			5.045	04.40	4 000	4 700	5.445	0.0404	0.450
Quality Cor		0.047	5.015		1.008		5.115	0.0101	0.150
True Value	QC	0.050	5.000	25.00	1.000	5.000	5.000	0.010	0.150
% Recover	y	94.0	100	85.9	101	95.6	102	101	100
Relative Sta	andard Deviation	2.0	0.2	3.4	0.2	0.4	1.0	1.0	5.7
METHODS	: EPA 1311, 600/4-91/010	206.2	272.1	208.1	213.1	218.1	239.1	245.1	270.2

Buy H Jacke

Date

H7064m



ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: PAT McCASLAND

P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 09/24/02 Reporting Date: 09/27/02 Project Number: NOT GIVEN

Project Name: D-2-1

Project Location: NOT GIVEN

Analysis Date: 09/25/02 Sampling Date: 09/24/02 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl¯ (mg/Kg)
H7064-1	SDD2192402SPHAZ	544
Quality Control		1000
True Value QC		1000
% Recovery		100
Relative Percent	Difference	8.0
METHOD: Standard	d Methods	4500-CIB

Buyer Kable
Chemist

Date





ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: PAT McCASLAND

P.O. BOX 1558 EUNICE, NM 88231

FAX TO: (505) 394-2601

Sampling Date: 09/24/02

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC Analyzed By: AH/BC

Receiving Date: 09/24/02 Reporting Date: 09/26/02 Project Number: NOT GIVEN

Project Name: D-2-1

Project Location: NOT GIVEN

LAB NO. SAMPLE ID

REACTIVITY

Sulfide

Cyanide CORROSIVITY IGNITABILITY

(ppm)

(ppm)

(pH)

(°F)

ANALYSIS DATE:	09/25/02	09/25/02	09/24/02	09/24/02
H7064-1 SDD2192402-SPHAZ	Not reactive	Not reactive	7.01	Nonflammable
				-
				
Quality Control	NR	NR	7.00	NR
True Value QC	NR	NR	7.00	NR
% Recovery	NR	NR	100	NR
Relative Percent Difference	NR	NR	0.3	NR

METHOD: EPA SW-846 7.3, 7.2, 1030 (proposed), 1311, 40 CFR 261

Buy est the Cooks

Date



ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: PAT McCASLAND

P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 09/24/02 Reporting Date: 09/27/02 Project Number: NOT GIVEN

Project Name: D-2-1

Project Location: NOT GIVEN

Lab Number: H7064-1

Sample ID: SDD2192402-SPHAZ

Analysis Date: 09/27/02 Sampling Date: 09/24/02 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: BC

TCLP SEMIVOLATILES (ppm	EPA n) LIMIT	Sample Result H7064-1	Method Blank	QC	% Recov.	True Value QC
Pyridine	5.00	<0.020	<0.005	0.031	62	0.050
1,4-Dichlorobenzene	7.50	<0.020	<0.005	0.028	56	0.050
o-Cresol	200	<0.020	<0.005	0.039	78	0.050
m, p-Cresol	200	<0.020	<0.005	0.041	82	0.050
Hexachloroethane	3.00	<0.020	<0.005	0.027	54	0.050
Nitrobenzene	2.00	<0.020	<0.005	0.047	94	0.050
Hexachloro-1,3-butadiene	0.500	<0.020	<0.005	0.033	66	0.050
2,4,6-Trichlorophenol	2.00	<0.020	<0.005	0.047	94	0.050
2,4,5-Trichlorophenol	400	<0.020	<0.005	0.043	86	0.050
2,4-Dinitrotoluene	0.130	<0.020	<0.005	0.044	88	0.050
Hexachlorobenzene	0.130	<0.020	<0.005	0.047	94	0.050
Pentachlorophenol	100	<0.020	<0.005	0.044	88	0.050

ᅆ	C	\sim	\cap	١/	⊏	D١	/

Fluorophenol	60
Phenol-d5	51
Nitrobenzene-d5	70
2-Fluorobiphenyl	69
2,4,6-Tribromophenol	108
Terphenyi-d14	58

METHODS: EPA SW-846 1311, 8270, 3510

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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: 09/24/02 Reporting Date: 09/26/02 Project Number: NOT GIVEN

Project Name: D-2-1

Project Location: NOT GIVEN

Lab Number: H7064-1

Sample ID: SDD2192402-SPHAZ

Analysis Date: 09/25/02 Sampling Date: 09/24/02 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: BC

TCLP VOLATILES (ppm)	EPA LIMIT	Sample Result H7064-1	Method Blank	QC	%Recov.	True Value QC
Vinyl Chloride	0.20	<0.005	<0.005	0.100	100	0.100
1,1-Dichloroethylene	0.7	<0.005	<0.005	0.081	81	0.100
Methyl Ethyl Ketone	200	<0.050	<0.050	0.113	113	0.100
Chloroform	6.0	0.008	<0.005	0.091	91	0.100
1,2-Dichloroethane	0.5	<0.005	<0.005	0.107	107	0.100
Benzene	0.5	<0.005	<0.005	0.100	100	0.100
Carbon Tetrachloride	0.5	<0.005	<0.005	0.113	113	0.100
Trichloroethylene	0.5	<0.005	<0.005	0.097	97	0.100
Tetrachloroethylene	0.7	<0.005	<0.005	0.094	94	0.100
Chlorobenzene	100	<0.005	<0.005	0.090	90	0.100
1,4-Dichlorobenzene	7.5	<0.005	<0.005	0.100	100	0.100

% RECOVERY	%	R	E	CO	V	Ε	R	١
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Dibromofluoromethane	96	
Toluene-d8	116	
Bromofluorobenzene	117	

METHODS: EPA SW 846-8260, 1311

Burgess J./A. Cooke, Ph. D.

Date

9/26/02

Cardinal Laboratories Inc.

2111 Beechwood, Abilene, TX 79603 915-673-7001 Fax 915-673-7020 101 East Marland, Hobbs, NM 88240 505-393-2326 Fax 505-393-2476

Company I	Name Duke Energy									Bil	l To								Ana	lysis	Rec	ues	t			
Project Mai	nager Paul Mulkey																									
Address																ļ										
City, State,	Zip														İ									1 1		
Phone#/Fa	x# 910-4704]			ļ					
Project #/C)wner																									
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Project Loc						Ì									8021B	20	ਹ	≥	ig	Siv	TCLP			1 1		
Sampler Na	ame John Good														втех	TPH 8015M		REACTIVITY	Ignitability	Corrosivity	12			1 1		
		<u>.</u>				MA	TRIX			Pl	RESEI	₹V.	SAMI	'LING	BT			쀭	<u>≏</u>	Ŏ				1 1		
LAB I.D.	SAMPLE I.D.	(G)RABOR (C)OMP	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CUDE OIL	SLUDGE	OTHER:	ACID/BASE	<u> </u>	OTHER	DATE	TIME												
17064)	SDD2192402-SPHAZ	G	1			X					20		9/24/02	9:30			X	X	X	X	X					
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Sampler Relinquished:	16116	Fax Results To Pat McCasland 505-394-2601
follo sood	Time //: 00	REMARKS:
Religiquished by:	Date Received By: (lab staff)	
	Time DW est for John	
Delivered by Sampler	Sample Opol & Intact // Checked By:	
, , , , , , , , , , , , , , , , , , ,	Yes No V	



ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: JOHN GOOD P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 10/16/02

Reporting Date: 10/18/02

Project Owner: DUKE ENERGY FIELD SERVICES

Project Name: D-2-1 091702

Project Location: UL-P SECTION 11 T18S R38E

Sampling Date: 10/16/02

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: BC

•						•	
		GRO	DRO			ETHYL	TOTAL
LAB NO.	SAMPLE ID	(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	BENZENE	TOLUENE	BENZENE	XYLENES
		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSIS	DATE:	10/16/02	10/16/02	10/16/02	10/16/02	10/16/02	10/16/02
H7135-1	DD21A101602BHC	<10.0	27.4	<0.005	<0.005	<0.005	<0.015
H7135-2	DD21A101602SSWC	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H7135-3	DD21A101602ESWC	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H7135-4	DD21A101602NSWC	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H7135-5	DD21A101602WSWC	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H7135-6	DD21B101602BHC	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H7135-7	DD21B101602SSWC	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H7135-8	DD21B101602ESWC	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H7135-9	DD21B101602NSWC	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H7135-10	DD21B101602WSWC	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H7135-11	DD21C101602BHC	<10.0	23.7	<0.005	<0.005	<0.005	<0.015
H7135-12	DD21C101602SSWC	<10.0	664	<0.005	<0.005	<0.005	<0.015
H7135-13	DD21C101602ESWC	<10.0	1340	<0.005	<0.005	<0.005	<0.015
H7135-14	DD21C101602NSWC	<10.0	193	<0.005	<0.005	<0.005	<0.015
H7135-15	DD21C101602WSWC	<10.0	409	<0.005	<0.005	<0.005	<0.015
Quality Co		939	1020	0.098	0.102	0.107	0.308
True Value		1000	1000	0.100	0.100	0.100	0.300
% Recove		93.9	102	98.3	102	107	103
Relative P	ercent Difference	1.3	<0.1	8.1	5.1	5.5	4.5

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.

Burgess J./A. Cooke. Ph. D.

Date

H7135BT.XLS



ANALYTICAL RESULTS FOR **ENVIRONMENTAL PLUS. INC.**

ATTN: JOHN GOOD P.O. BOX 1558

EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 10/16/02

Reporting Date: 10/17/02

Project Owner: DUKE ENERGY FIELD SERVICES

Project Name: D-2-1 091702 Project Location: UL-P SECTION 11 T18S R38E Sampling Date: 10/16/02

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: AH

		Cl	SO ₄	рН
LAB NUMBE	ER SAMPLE ID	(mg/Kg)	(mg/Kg)	(s.u.)
ANALYSIS [DATE	10/17/02	10/17/02	10/17/02
H7135-1	DD21A101602BHC	416	68	7.29
H7135-2	DD21A101602SSWC	64	55	7.79
H7135-3	DD21A101602ESWC	176	135	7.69
H7135-4	DD21A101602NSWC	96	221	7.80
H7135-5	DD21A101602WSWC	128	414	7.98
H7135-6	DD21B101602BHC	752	9049	7.85
H7135-7	DD21B101602SSWC	928	9182	7.81
H7135-8	DD21B101602ESWC	928	1126	7.95
H7135-9	DD21B101602NSWC	400	42	8.03
H7135-10	DD21B101602WSWC	672	740	8.00
H7135-11	DD21C101602BHC	48	295	8.00
H7135-12	DD21C101602SSWC	64	1838	7.87
H7135-13	DD21C101602ESWC	80	2084	7.82
H7135-14	DD21C101602NSWC	64	448	7.97
H7135-15	DD21C101602WSWC	64	288	7.90
H7135-16	DD21101602BG	80	308	8.43
Quality Cont	rol	970	49.87	6.94
True Value (1000	50.00	7.00
% Recovery		97.0	99.7	99.1
	cent Difference	8.0	1.3	0.3

METHODS:	600/4-79-020	4500-Cl ⁻ B*	375.4	150.1
		.000 010	0.0	

*Standard Methods

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

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Cardinal Laboratories Inc.

2111 Beechwood, Abilene, TX 79603 915-673-7001 Fax 915-673-7020 101 East Marland, Hobbs, NM 88240 505-393-2326 Fax 505-393-2476

Company N	Name Environmental Plus	Inc				Ë		J-Z.		<u> </u>	Bill		393-2410		Τ			Α	ΝΔΙ	YSIS	RE	QUE	ST		
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		(G)RAB OR (C)OMP	CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	:		BTEX 8021B	TPH 8015M	CHLORIDES (CT)	SULFATES (SO4*)	_		1				
120120	DD214404602BHC	C	1	9	<u>×</u>	σ X	2	S	Ô	¥		0	DATE 10/16/02	TIME 10:15	X		X		표 X	<u>ļ —</u>	╄	╀	\vdash	\vdash	_
H-1132-1	DD21A101602BHC DD21A101602SSWC		1								Λ×	-				X	 	X	_	 	┼	┼—	 	-	_
-7		C	1.	<u> </u>		×Ι				<u> </u>	X		10/16/02	10:20	X	X	₩	X	X	<u> </u>	╁—	╄			
	DD21A101002ESWC \\ DD21A101002NSWC (1			ΧĮ					X		10/16/02	10:25	X	K	ł÷	I Š	X	 	╄	╄		$\vdash\vdash$	_
-4	DD21A101002NSWC (C	1			X					X		10/16/02	10:30	X	X	 }	X	X	<u> </u>	╄	₩	╂┷┩		
	DD21B101002VVSVC	C		-	_	××		Н			X	_	10/16/02	10:35 10:40	X	X	X	X	X	 -	╀┷	╀	\vdash		_
	DD21B101002BHC	C	1	_						-	Λ×	-	10/16/02	10:40	X	X	 	X	X	┝	┼	₩		\vdash	_
	DD21B10100255WC	ပပ	_		_	×				_	X		10/16/02	10:45	 	x	 	X	X	-	╄	╁—	╂┷┩	\vdash	
	DD21B101002ESWC	c	1	-		X					Ŷ		10/16/02	10:55	Î				Î	┢	╫	┼	╂┷┦	Н	
	DD21B101002WSWC	6	_	\vdash		X				_	Ŷ		10/16/02	11:00	Ŕ		4		÷	┢	╀	∤	H	\vdash	-
-10	DD21B101002VVSVVC	<u> </u>	1										10/16/02	11:00	<u> </u>		<u> </u>						لـــا		
1																									
Sampler Relingu	shed: Date,	Rece	ived (RG/				//																	
W Just 1	Select: Dete/0-/6-02 Time/1:30		\sqrt{I}	/].		1_		X				tesui ARKS	ts To John Go i:	ood 505-394	-2601										
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Lohn		[]:	m	nù		1	. ([]																	
7	Camala	C	_		1	12	Ch	cked	Ву:																
Melivered by	John Good, EPI Yes		N N)																				

Cardinal Laboratories Inc.

2111 Beechwood, Abilene, TX 79603 915-673-7001 Fax 915-673-7020 101 East Marland, Hobbs, NM 88240 505-393-2326 Fax 505-393-2476

Company N	Name	Environ	mental Plus	, inc				1416	1744E	描述	egral	相關的	Bili	To	width draftenists	chiya watak				Al	VAL'	YSIS	REC	JUE	ST		
Project Ma	nager	John G	ood					•				1															
Address		P.O. BC	X 1558							•	/	-	E	:PI													
City, State,	Zip	Eunice	New Mexico	882	231							<u></u>						l									
Phone#/Fa	x#	505-394	-3481 / 505	-394	-26	01																					
Project #/O	wner	Duke Er	nergy Field S	Serv	ices	}																					Ì
Project Nar	me	D-2-1 09	91702																								
Project Loc	cation	UL-P Se	ection 11 T1	8S F	₹38	E																					
Sampler No	ame	Morris E	Burkett																								
				₫.				MAT	rix			PR	ESE	RV.	SAMF	PLING											
LAB I.D.		BAMPLE		(G)RAB OR (C)OMP.	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	отнея:	ACID/BASE	ICEXCOOL	OTHER	DATE	TIME	BTEX 8021B	трн 8015М	CHLORIDES (CT)	SULFATES (SO4*)	Hd						
H7135-11	DD21C1	01002BH	IC	С	1			X					X		10/16/02	11:05	X	X	X	X	X						
-12	DD21C1	0100288	WC	С	1			X					X		10/16/02	11:10	X	X	X	X	X						
	DD21C1			С	1			X					X		10/16/02	11:15	X	X	X	X	X						
	DD21C1			C	1			X					X		10/16/02	11:20	X	X	X	X	X						
-15	DD21C1	01002W	SWC	С	1			X					X		10/16/02	11:25	X	X	X	X	X						
-16	DPZII	1602	BG	G	1			X			:		X		10/16/02	11:30			X	X	X						
	<u></u>					<u> </u>													L								L_
	_																										
Sampler Relinqui	Lech	M	Date 10/16/02 Time 1/:30	1	itredit	h	ر ب	L	_	1	,			Result ARKS	ts To John G :	ood 505-394	-2601)									
Relinquished by:	. An	1	80 MM CT. 8 MM	Rece		3y: (k ∕∕\	ab sta		J.	ĺ	0																
Delivered by	John Good	, EPI	Sample Yes		& Inta		0	•	Ch	ecked	Ву:																



ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: JOHN GOOD

P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 10/17/02

Reporting Date: 10/18/02

Project Owner: DUKE ENERGY FIELD SERVICES

Project Name: D-2-1 091702

Project Location: UL-P SECTION 11 T18S R38E

Sampling Date: 10/17/02

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: BC

LAB NO.	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS	S DATE:	10/17/02	10/17/02	10/17/02	10/17/02	10/17/02	10/17/02
H7138-1	DD21101702FPN	<10.0	153	<0.005	<0.005	<0.005	<0.015
H7138-2	DD21101702FPS	<10.0	12.1	<0.005	<0.005	<0.005	<0.015
H7138-3	DD21101702POOL	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
Quality Co	ontrol	780	797	0.092	0.101	0.110	0.318
True Value	e QC	800	800	0.100	0.100	0.100	0.300
% Recove	ery	97.6	99.8	91.5	101	110	106
Relative P	ercent Difference	3.3	7.7	7.4	0.7	2.9	3.1

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.

Burgess J. A. Cooke. Ph. D.

Date



ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC. ATTN: JOHN GOOD

P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 10/17/02

Reporting Date: 10/18/02

Project Owner: DUKE ENERGY FIELD SERVICES

Project Name: D-2-1 091702

Project Location: UL-P SECTION 11 T18S R38E

Sampling Date: 10/17/02

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: AH

		Cl	SO₄	pН
LAB NUMBI	ER SAMPLE ID	(mg/Kg)	(mg/Kg)	(s.u.)
ANALYSIS	DATE	10/17/02	10/18/02	10/17/02
H7138-1	DD21101702FPN	144	109	8.29
H7138-2	DD21101702FPS	256	56	7.86
H7138-3	DD21101702POOL	144	52	8.74
		070	40.07	0.04
Quality Con		970	49.87	6.94
True Value		1000	50.00	7.00
% Recovery	1	97.0	99.7	99.1
Relative Per	rcent Difference	8.0	1.3	0.3

METHODS:	600/4-79-020	4500-CI'B*	375.4	150.1

*Standard Methods

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

Chemist

Date

Cardinal Laboratories Inc.

2111 Beechwood, Abilene, TX 79603 915-673-7001 Fax 915-673-7020 101 East Marland, Hobbs, NM 88240 505-393-2326 Fax 505-393-2476

Company I		onmental Plus,	Inc	s			ngo	i siye in	∰ang .c	jertel (*	V. Phy	Bill	To	र स्कार्यक्षा <mark>स्वतिक स्</mark>	tens 1 top 1 ex				Αř	VAL'	YSIS	REC	UES	3T		_	
Project Ma	nager John	Good									1	-															
Address	P.O. I	3OX 1558					1		•	/	_	E	:PI														
City, State,		e New Mexico	882	231			1				_														ĺ	- [ı
Phone#/Fa		94-3481 / 505-	394	-26	01											l									I	1	
Project #/C	wner Duke	Energy Field S	Serv	ices	 															ľ				- 1	- 1	j	
Project Na	me D-2-1	091702]]	
Project Loc	ation UL-P	Section 11 T1	8S F	38	E]																	Ì	1	1	
Sampler No	ame Morris	Burkett					l																			- [
	· · · · · · · · · · · · · · · · · · ·		ď				MA	TRIX			PR	E8E	RV.	8AMF	LING	1								I	ŀ		- 1
LAB I.D.	SAMPL		(G)RAB OR (C)OMP.	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	отнек:	ACID/BASE	ICENCOOL	OTHER	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (C1)	SULFATES (SO4)	Hd							
H7138-1	DD21101702FF	N	С	1			X					X		10/17/02	10:15	X	X	X	X	X							
	DD21101702FF		ပ	1			X					X		10/17/02	10:20	X	X	X	X	X							
- 3	DD21101702PC	OOL	ပ	1			X					X		10/17/02	10:25	X	X	X	X	X							
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Sampler Relinqui	shed: 0	Date	Roce	elved i	ar.							_															_
Mari	Duna 84	Time	/	า	•				,				Res Arks	ults To Joi :	nn Good	5U 5-	J 84 -	∡out									
Relinquished by:		Deta 10-17-0		Mod E		ib sta	1	l				; -															
Delivered by:		Sample Yes	Coo	& Inte	o (Che	cked	Ву:																	



ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: JOHN GOOD

P.O. BOX 1558

EUNICE, NM 88231

FAX TO: (505) 394-2601

Receiving Date: 11/08/02

Reporting Date: 11/13/02

Project Owner: DUKE ENERGY FIELD SERVICES

Project Name: D-2-1 091702

Project Location: UL-P SECTION 11 T18S R38E

Analysis Date: 11/11/02

Sampling Date: 11/07/02

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: AH

		SO₄
LAB NUMBER	SAMPLE ID	(mg/Kg)

H7195-2	SDD21110802BBHC-12	1858
H7195-3	SDD21110802BSSWC	3701
H7195-5	SDD21110802BESWC	1572
H7195-7	SDD21110802CBHC-4	29.1
H7195-8	SDD21110802CSSWC	67.2
H7195-10	SDD21110802CESWC	17.9
Quality Control		49.87
True Value QC		50.00
% Recovery		99.7
Relative Percer	nt Difference	1.3

METHOD: 600/4-79-020 375.4

Date

Qhemist



ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: JOHN GOOD

P.O. BOX 1558

EUNICE, NM 88231

FAX TO: (505) 394-2601

Receiving Date: 11/08/02

Reporting Date: 11/13/02

Project Owner: DUKE ENERGY FIELD SERVICES

Project Name: D-2-1 091702

Project Location: UL-P SECTION 11 T18S R38E

Analysis Date: 11/11/02

Sampling Date: 11/07/02

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: AH

CI

	LAB NUMBER	SAMPLE ID	(mg/Kg)
	H7195-1	SDD21110802ABHC-13	144
ľ	H7195-2	SDD21110802BBHC-12	144
	H7195-3	SDD21110802BSSWC	320
ľ	H7195-4	SDD21110802BNSWC	320
	H7195-5	SDD21110802BESWC	32

H/195-2	SDD21110802BBHC-12	144
H7195-3	SDD21110802BSSWC	320
H7195-4	SDD21110802BNSWC	320
H7195-5	SDD21110802BESWC	32
H7195-6	SDD21110802BWSWC	128
H7195-7	SDD21110802CBHC-4	48
Quality Control		990
True Value QC		1000
% Recovery		99.0
Relative Percer	nt Difference	1.0

METHOD: Standard Methods 4500-CIB

Chemis

Date

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, affiliated to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.





ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: JOHN GOOD P.O. BOX 1558 EUNICE, NM 88231

FAX TO: (505) 394-2601

Receiving Date: 11/08/02

Reporting Date: 11/13/02

Project Owner: DUKE ENERGY FIELD SERVICES

Project Name: D-2-1 091702

Project Location: UL-P SECTION 11 T18S R38E

Sampling Date: 11/07/02

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: BC

		GRO	DRO
		(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)
LAB NUMBER	SAMPLE ID	(mg/Kg)	(mg/Kg)

ANALYSIS [DATE:	11/11/02	11/11/02
H7195-7	SDD21110802CBHC-4	<10.0	<10.0
H7195-8	SDD21110802CSSWC	<10.0	<10.0
H7195-9	SDD21110802CNSWC	<10.0	<10.0
H7195-10	SDD21110802CESWC	<10.0	<10.0
H7195-11	SDD21110802CWSWC	<10.0	<10.0
Quality Cont	rol	795	782
True Value (C	800	800
% Recovery		98.4	97.8
Relative Per	cent Difference	8.2	0.8

METHOD: SW-846 8015 M

Chemist /

Date

Cardinal Laboratories Inc.

101 East Marland, Hobbs, NM 88240 505-393-2326 Fax 505-393-2476

2111 Beechwood, Abilene, TX 79603 915-673-7001 Fax 915-673-7020

000-080-2020	ax 300-393-2470		<u> </u>											77 0-1 020													_
Company Name	Environm	nental Plus	, Inc) .			1503	维沃尔	利益 40	100	37.54	BIII	To	中医生物 不可以	的种种种形式	Sec	7000	1 <u>8</u> 7.4(9)	AN	ALY	/818	RE	QU	EST	。在如此	Will Phon	科特
Project Manager	John God	od																									
Address	P.O. BO	K 1558							li est			4-	511	100		1				l				1 1			
City, State, Zip	Eunice N	ew Mexico	882	231																							
Phone#/Fax#	505-394-	3481 / 505	-394	1-26	01		Ì			7																	
Project #/Owner	Duke En	ergy Field S	Serv	ice	5											l		l								l	
Project Name	D-2-1 09															İ											
Project Location	UL-P Sec	ction 11 T1	8S I	R38	E											l											
Sampler Name	John God	od														}		[•								
							MA'	TRIX			PR	E8E	RV.	SAMF	PLING]								1 1			
LAB I.D.	SAMPLE I	l.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	отнек:	ACIDIBASE	ICE/COOF	ОТНЕК	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORADES (CT)	SULFATES (SO.)	暑							
H7195-1	SDD21110802ABI	HC-13	C	1			X					X		7-Nov	13:00			X									
- a	SDD21110802BBI	HC-12	C	1			X					X		7-Nov	13:05			X	X								
-3	SDD21110802BS	BWC	C	1			X					X		7-Nov	13:10			X	X								
-4_	SDD21110802BN	BWC	C	1			X					X		7-Nov	13:15			X									
-K .	SDD21110802BES	SWC	C	1			X					X		7-Nov	13:20			X	X								
-10-	SDD21110802BW	SWC	C	1			X					X		7-Nov	13:25			X									
	SDD21110802CBI	HC-4	С	1			X					X		7-Nov	13:30		X	X									
-8	SDD21110802CS	SWC	C	1			X					X		7-Nov	13:35		X		X								
-9	SDD21110802CN	SWC	C	1			X					X		7-Nov	13:40		X										
-10	SDD21110802CES	SWC	C	1			X					X		7-Nov	13:45		X	•	X								
-11	SDD21110802CW	SWC	C	1			X					X		7-Nov	13:50		X										
· Alleranies Parties	With the second with	Mark Sales	1	Ho Helin	1940年	is the sta	Hara San	10000	SERVICE.	N. A.	in sold	h de an	is seed	AND THE PERSON	物子等 种 种	第 年至			BANGET:		SW T	A 188	144 P	APPER	K _P M	里海福	(P
Sampler Relinquished: Relinquished by: Delivered by:		Deta 1 - 8 - 02 Time 6 : 72 Date 1 - 60 Tylig - 20 Sample Yes		bevie M	By: (1 L)	ab sta			ocked	Ву:			Res	ults To Jo :	hn Good	505-	394-	2601									

Site

Photographs

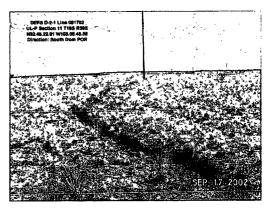
18

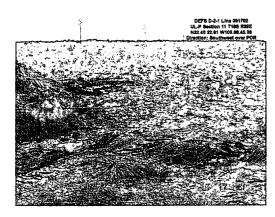
DEFS D-2-1 091702

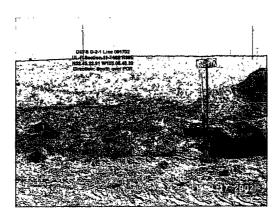
Duke Energy Field Services D-2-1 091702 [A] UL-P Section 11 T185 R38E

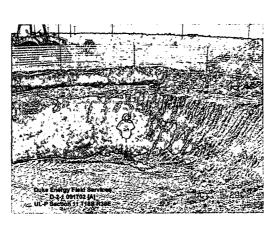
DBFS DAN LINE (INTRO) Use Section 11 THE RASE INC. AS 22 OF THE RASE INC. AS 22 OF THE RASE Incention: Southeast from PDR



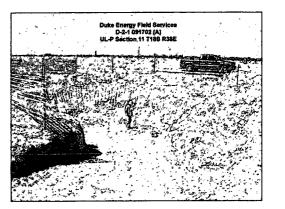












Duke Energy Field Services

19

DEFS D-2-1 091702

Duke Energy Field Services

Final C-141 Form

District I

1625 N. French Dr., Hobbs, NM 88240

State of New Mexico Energy Minerals and Natural Resources Form C-141 Revised March 17, 1999

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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back

side of form

		Rele	ease Noti	fication a	nd Corr	ective Action									
	C	PERATOI	R			☐ Initial Report	☑ Final Report								
Name of Con	npany				Contact										
Duke Energ	y Field Servi	ces			Paul Mulkey										
Address					Telephone No.										
11525 West	Carlsbad Hv	vy, Hobbs, N	M 88240		505-397-5716										
Facility Nam					Facility Type	:									
D-2-1 Line					Natural Gas										
	,		· · · · · · · · · · · · · · · · · · ·												
Surface Own	er			Mineral Own	er		Lease No.								
VMJ, Inc. (Vernon M. Jo	ones)		NA			NA								
			L(CATION	OF RELEA	SE									
Unit Letter	Section	Township	Range	Feet from	Feet from	Longitude	Latitude	County:							
Ь Б	11	100	38E	South Line	West Line	W103:06:45.38	N32:45:22.91	Tan							
P	11	18S	36E	550	4612	W103:00:45.36	N32:43:22.91	Lea							
			ľ	NATURE O	F RELEAS	SE									
Type of Rele	ase				Volume of R	elease	Volume Recovered								
		ted liquid con	nponents		>15			bbl							
Source of Re	lease					ur of Occurrence	Date and Hour of Da	iscovery							
	ıl Gas Pipelii				Unknown		09/17/02 AM								
Was Immedi	ate Notice Gi				If YES, To W	Vhom?									
D 1111	□ Yes	☑ No	□ Not R	equired	NA										
By Whom?					Date and Hor	ur									
NA	course Reach	- 10			NA ICVES Value	T 41 33	7-4								
was a water	course Reach	ea≀ □ Yes	☑ No		NA	me Impacting the W	atercourse.								
If a Watercon	urse was Impa	acted, Describ			<u> </u>										
Describe Car	ise of Probler	n and Remedi	al Action Tal	cen.*											
Internal pip	eline corrosi	on, pipe secti	on removed,	looped, even	tual replacen	nent planned.									
Describe Are	a Affected ar	nd Cleanup Ac	tion Taken.*												
~9600-ft ² sui	face area affe	ected (3 releas	es + flowpath	n). Remediatio	on documentat	ion attached.									
regulations all health or the er operations hav environment.	operators are re nvironment. The re failed to ade	quired to report e acceptance of quately investig OCD acceptance	and/or file cert a C-141 report ate and remed	tain release notif by the NMOCI iate contaminati	ications and per marked as "Finon that pose a	form corrective actions aal Report" does not rel threat to ground wate or of responsibility for	nd that pursuant to NM for releases which may lieve the operator of liabi er, surface water, huma compliance with any other	endanger public lity should their n health or the							
Signature:	Pal	27/	lpy			OIL CONSERVA	ATION DIVISION								
Printed Name		Paul Mulkey			Approved by	District Supervisor									
Title:	Constr	uction & Mai	intenance Su	pervisor	Approval Da	te:	Expiration Date:	т							
Date:	12/3/02	Phone:	505-39	97-5716	Conditions o	f Approval:		Attached .							
Attach Addit	ional Sheets l	t Necessary													

Duke	Energy.	Incident Date and	NMOCD Notified?									
	ervices	09/17/02 AM	NA									
SITE: D-2-1 Line			Assigned Site Referen	ce #: DEFS D-2-1 091702								
Company:	Duke Energ	rgy Field Services										
Street Address:	11525 Wes	st Carlsbad Hwy, Hob	obs, NM 88240									
Mailing Address:	11525 Wes	st Carlsbad Hwy, Hol	obs, NM 88240									
City, State, Zip:												
Representative:	Paul Mulke	ey .										
Representative Telephor	ne: 505-397-57	'16										
Telephone:												
Fluid volume released (b	obis): >15	Recovered (bbls):	0									
`	>25 bbls: Notify	NMOCD verbally within:	24 hrs and submit form C-141	within 15 days.								
5-25	bbls: Submit form C-141	l within 15 days (Also ar	pplies to unauthorized release	s of 50-500 mcf Natural Gas)								
Leak, Spill, or Pit (LSP)	1	DEFS D-2-1 091702		· · · · · · · · · · · · · · · · · · ·								
Source of contamination		Steel Natural Gas P	ipeline									
Land Owner, i.e., BLM,		VMJ, Inc. (Vernon M	•									
LSP Dimensions:	,,	(see Figure 3 attach										
LSP Area:		9600 - 11 2										
Location of Reference P	Point (RP)											
Location distance and d												
Latitude:	mection for KF.	N32:45:22.91										
		W103:06:45.38		44401								
Longitude:				AM PAUL								
Elevation above mean se		3628 -ft amsl	· ·									
Feet from South Section		550										
Feet from West Section		4612		1 4 4 4								
Location - Unit or 1/4 1/	/4: UL-		E 1/4 of SE	1/4								
Location - Section:		11		· A PROMETER								
Location - Township:		188										
Location - Range:		38E										
Surface water body with		1										
Surface water body with		· · · · · · · · · · · · · · · · · · ·										
Domestic water wells w		<u> </u>	 									
Domestic water wells w	ithin 1000' radius of	Site: 0										
Agricultural water wells	within 1000' radius o	of Site: 0										
Agricultural water wells	within 1000' radius o	of Site: 0										
Public water supply wel	ls within 1000' radius	of Site: 0										
Public water supply wel	Is within 1000' radius	of Site: 0										
Depth (ft) from land surf	ace to ground water	(DG): 65										
Depth (ft) of contaminat	ion (DC):	14										
Depth (ft) to ground wat	er (DG - DC = DtGW	<i>(</i>): 51										
1. Ground	•	1	Protection Area	3. Distance to Surface Water Body								
If Depth to GW <50 feet	t: 20 points	If <1000' from water	source, or, <200' from	<200 horizontal feet: 20 points								
	feet: 10 points		ter source: 20 points	200-100 horizontal feet: 10 points								
II Depth to GVV build 98		i	source, or, >200' from	>1000 horizontal feet: 0 points								
If Depth to GW >100 fee	et: <i>0 point</i> s			1000 honzontar leet. 0 points								
If Depth to GW >100 fee	· · · · · · · · · · · · · · · · · · ·	private domestic wa	ter source: 0 points									
If Depth to GW >100 fee	10		ter source: 0 points	Surface Water Score: 0								
If Depth to GW >100 fee	10 10	private domestic wa Wellhead Protection	ter source: 0 points n Area Score: 0	Surface Water Score: 0								
If Depth to GW >100 fee Ground water Score: Site Rank (1+2+3) =	10 10 Total S	private domestic wa Wellhead Protection	ter source: 0 points n Area Score: 0 and Acceptable Conce	Surface Water Score: 0								
If Depth to GW >100 fee Ground water Score: Site Rank (1+2+3) =	10 10 Total S 20 or >	private domestic wa Wellhead Protection	ter source: 0 points n Area Score: 0 and Acceptable Conce	Surface Water Score: 0 ntrations								
Ground water Score: Site Rank (1+2+3) = Parameter Benzene ¹	10 10 Total S 20 or > 10 ppm	private domestic wa Wellhead Protection	ter source: 0 points n Area Score: 0 and Acceptable Conce 10 10 ppm	Surface Water Score: 0 ntrations 0 10 ppm								
If Depth to GW >100 fee Ground water Score: Site Rank (1+2+3) =	10 10 Total S 20 or >	private domestic wa Wellhead Protection	ter source: 0 points n Area Score: 0 and Acceptable Conce	Surface Water Score: 0 ntrations								

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-138 Revised March 17, 1999

> Submit Original Plus 1 Copy to Appropriate District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

	SOLID WAS IE
1. RCRA Exempt: ☐ Non-Exempt ☐	6. Generator Duke Energy Field Services
Verbal Approval Received: Yes ⊠ No □	5. Originating Site D-2-1 Line (091702)
Management Facility Destination Environmental Plus, Inc. Landfarm #NM-01-0013	6. Transporter
3. Address of Facility Operator 2100 Avenue O, P.O. Box 1558, Eunice, New Mexico 8823	8. State
7. Location of Material (Street Address or ULSTR) UL-P Section 11 T18S R38B	=
9. Circle One: A. All requests for approval to accept oilfield exempt wastes will be accompanied Generator; one certificate per job. B. All requests for approval to accept non-exempt wastes must be accompanied the material is not-hazardous and the Generator's certification of origin. No was will be approved. All transporters must certify the wastes delivered are only those consi	d by necessary chemical analysis to PROVE te classified hazardous by listing or testing
Contaminated Soil – Natural Gas Line leak Estimated Volume 500 yd³ Known Volume (to be entered by the operator at the en	nd of the haul) <u>1900</u> yd ³
	· · · · · · · · · · · · · · · · · · ·
Estimated Volume 500 yd³ Known Volume (to be entered by the operator at the entered by the op	ntal Consultant DATE: <u>Sept</u>
Estimated Volume 500 yd³ Known Volume (to be entered by the operator at the entered by the en	ntal Consultant DATE: <u>Sept</u>
Estimated Volume 500 yd³ Known Volume (to be entered by the operator at the entered by the op	ntal Consultant DATE: Sept

ENVIRONMENTAL PLUS, INC.

Environmental Services & Land Farm

PERMIT # NM-01-0013

CERTIFICATE OF WASTE STATUS

"RCRA EXEMPT WASTE"

COMPANY	: Duke Energy Field Services					
ORIGIN:	UL or ¼¼: P	SECTION: 11	Township: 188	RANGE: 38E		
Source 1	DESCRIPTION (PIPEL	INE, LEASE, BATTE	RY, FLOWLINE, ETC.)	PIPELINE		
8" D-2-1	NATURAL 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 has 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 Energy Field Services		, HEREBY CERTIFY THAT,					
BASED ON PER	BASED ON PERSONAL KNOWLEDGE, THE ABOVE STATEMENT IS TRUE AND CORRECT.							
	NAME PAUL MULKEY							
	TITLE	MAINTENANCE & CONSTRUCTION SUPERVISOR						
·	ADDRESS	11525 WEST CARLSBAD HIGHWAY						
		HOBBS, NEW MEXICO 88240						
	SIGNATURE	Paul Mm	lky					
	DATE SEPTEMBER 24, 2002							