

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

J-4-2-7-4 RELEASE SITE **DEFS REF: 130004** 

UL-M (SW¼ OF THE SW¼) OF SECTION 8 T19S R35E ~20 MILES WEST -SOUTHWEST OF HOBBS LEA COUNTY, NEW MEXICO

LATITUDE: N 32° 40' 8.098" LONGITUDE: W 103° 29' 6.381"

**JUNE 2005** PREPARED BY:

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NMOCD - New Mexico Oil Conservation Division EPI - Environmental Plus, Inc.



#### **Standard of Care**

#### **Closure Report**

#### J-4-2-7-4 Release Site

The information provided in this report was collected consistent with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993), the NMOCD Unlined Surface Impoundment Closure Guidelines (February 1993), and the Environmental Plus, Inc. (EPI) Standard Operating Procedures and Quality Assurance/Quality Control Plan. The conclusions are based on field observations and laboratory analytical reports as presented in the report. Recommendations follow NMOCD guidance and represent the professional opinions of EPI staff. These opinions were arrived at with currently accepted geologic, hydrogeologic and engineering practices at this time and location. The report was prepared or reviewed by a certified or registered EPI professional with a background in engineering, environmental, and/or the natural sciences.

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#### **Table of Contents**

Projec	t Summary.		ii
1.0	Introduct	ion and Background	1
2.0	Site Desc	ription	1
	2.1	Geological Description	1
	2.2	Ecological Description	2
	2.3	Area Ground Water	2
	2.4	Area Water Wells	2
	2.5	Area Surface Water Features	2
3.0	NMOCD	Site Ranking	2
4.0	Subsurfac	ce Soil Investigation	3
5.0	Ground V	Vater Investigation	4
6.0	Remediat	tion Process	4
7.0	Closure J	ustification	4

#### **FIGURES**

Figure 1: Area Map

Figure 2: Site Location Map

Figure 3: Site Map

Figure 4: Sample Location Map

Figure 5: Final Sample Location Map

#### **TABLES**

Table 1: Summary of Excavation Analytical Results

Table 2: Well/Surface Data Report

#### **APPENDICES**

Appendix I: Laboratory Analytical Reports and Chain-of-Custody Forms

i

Appendix II: Project Photographs

Appendix III: Final NMOCD C-141 Form and Site Information and Metrics Form



#### **Project Summary**

#### Site Specific:

Company Name: Duke Energy Field Services

◆ Facility Name: J-4-2-7-4 Natural Gas Gathering Pipeline

♦ Project Reference 130004

Company Contacts: Mark Owens

♦ Site Location: WGS84 N32° 40′ 8.098″; W103° 29′ 6.381″

◆ Legal Description: Unit Letter M, (SW¼ of the SW¼), Section 8, T19S, R35E

♦ General Description: approximately 20-miles west-southwest of Hobbs, New Mexico

♦ Elevation: 3,838-ft amsl Depth to Ground Water: ≈45-ft

Land Ownership: Snyder Ranches

EPI Personnel: Project Consultant – Iain Olness

Site Foreman - Eddie Joe Harper

#### Release Specific:

Product Released: Natural Gas & NGL

♦ Volume Released: ≈8-bbl Volume Recovered: 0-bbl

♦ Time of Occurrence: 21-June-04 Time of Discovery: 21-June-04

◆ Release Source: 6" polyethylene NG pipeline; structural integrity compromised; repaired by clamping.

Initial Surface Area Affected: ≈2,780-ft²

#### Remediation Specific:

- ◆ Final Vertical extent of contamination: 16-ft bgs; Remaining depth to ground water: <50-ft</p>
- ♦ Water wells within 1,000-ft: 0 Surface water bodies within 1,000-ft: 0
- ♦ NMOCD Site Ranking Index: 20 points (<50-ft to top of water table)</p>
- ◆ Remedial thresholds for Soil: TPH 100 mg/kg; BTEX 10 mg/kg; Benzene – 50 mg/kg
- RCRA Waste Classification: Exempt
- Remediation Option Selected: a) Excavation of contaminated soil above NMOCD remedial goals; b) laboratory analyses to confirm removal of soil impacted above NMOCD remedial thresholds; c) blend excavated soil with surrounding clean soil and backfill the excavation.
- Disposal Facility: South Monument Landfarm

♦ Volume disposed of: 182-yd³

Project Completion Date: 23 August 2004

Additional Commentary: None

#### 1.0 Introduction & Background

This report addresses the site investigation and remediation of the Duke Energy Field Services (DEFS) J-4-2-7-4 six-inch natural gas pipeline remediation site. On June 21, 2004, Environmental Plus, Inc. (EPI) was notified by DEFS regarding a recently discovered natural gas and associated natural gas liquid (NGL) release along the J-4-2-7-4 pipeline. This site is located approximately 20 miles west-southwest of Hobbs, Lea County, New Mexico (reference Figure 1). The initial C-141 Form submitted to the New Mexico Oil Conservation Division (NMOCD) on June 30, 2004, reports the release volume as approximately 8-barrels with none recovered. EPI performed GPS surveying, photography and characterization of the site on June 21, 2004. The initial site consisted of an approximate 2,780 square feet (ft²) visibly affected surface area (reference Figure 3).

Initial activities at the site consisted of delineating the extent of contamination via test trenches. One trench was excavated in the north/south direction and two in the east/west direction. Samples were collected from the trenches and analyzed in the field for the presence of organic vapors utilizing an UltraRae photoionization detector (PID) equipped with a 9.8 electron-volt (eV) lamp. In addition, samples were submitted for laboratory confirmation to ensure the extents of contamination had been delineated.

Once the extents of contamination had been delineated, remediation activities commenced. Remediation of this site consisted of the excavation of approximately 1,700 cubic yards (yds<sup>3</sup>) of contaminated soil from what was ultimately a 3,600-ft<sup>2</sup> excavation, to a maximum depth of 22-feet below ground surface (bgs). Approximately 182 yds<sup>3</sup> of contaminated soil was transported to the South Monument landfarm for treatment. The remaining contaminated soil was blended on site with clean soil purchased from Snyder Ranches and obtained from the pipeline right-of-way. The excavation bottom(s) and sidewalls were sampled on July 15-16, 2004 and analyzed in the field for the presence of organic vapors utilizing an UltraRae photoionization detector (PID) equipped with a 9.8 electron volt (eV) lamp and chlorides using LaMotte Chloride Reactant #2. Once field results indicated remedial goals had been achieved, samples were submitted for laboratory quantification of total petroleum hydrocarbons (TPH), benezenes, toluene, ethylbenzene and total xylenes (BTEX consituents), chlorides and sulfates. Analytical results indicated total petroleum hydrocarbon (TPH) concentrations in sample SDEJ427471604NSBH12 obtained from the North Side Bottomhole were above the NMOCD remedial threshold of 100 parts per million (ppm). Excavation activities resumed and another sample (SDEJ427472204NBH13) was collected from approximately one-foot below the impacted sample. Analytical results for this sample indicated all hydrocarbon concentrations were less than the NMOCD remedial thresholds. Chloride concentrations were still in excess of 250 mg/Kg. Excavation resumed until field analyses indicated that chloride concentrations were below 250 mg/Kg. On August 9, 2004, confirmatory composite samples were collected from the excavation bottom and sidewalls and submitted for laboratory analyses. Reported BTEX, TPH, Chloride and Sulfate concentrations were below remedial goals. The excavation phase of the site remediation commenced on July 14, 2004 and was completed with backfilling and contouring on August 23, 2004.

This release site is located in Unit Letter M, (SW¼ of the SW¼), Section 8, T19S, R35E, N32° 40′ 8.09" and W103° 29′ 6.38". The site is approximately 20-miles west-southwest of Hobbs, New Mexico. The property is owned by Snyder Ranches (reference Figures 1 through 3).

#### 2.0 Site Description

#### 2.1 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 "uniformly flat; shallow depressions and small sand dunes are the only significant relief features".

#### 2.2 Ecological Description

The area is typical of the southwestern High Plains consisting primarily of semi-desert grasslands interspersed with Honey Mesquite (*Prosopis glandulosa*) and, annual and perennial forbs. Mammals represented, include Orrd's and Merriam's Kangaroo Rats, 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 groundwater aquifer at this site is projected to be <45-ft bgs based on limited water depth data obtained from the New Mexico State Engineers Office data base. Ground water gradient in this area is generally to the east-southeast.

#### 2.4 Area Water Wells

All recorded wells are greater than 1,000 horizontal feet from the site.

#### 2.5 Area Surface Water Features

No surface water bodies exist within 1,000 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 groundwater 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 (CoC), i.e., TPH<sup>8015m</sup>, benzene, and the mass sum of benzene, toluene, ethylbenzene, and total xylenes (BTEX), were determined based on the NMOCD Ranking Criteria as follows:

- Depth to groundwater (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 groundwater from the lower most contamination, the NMOCD ranking score for the site is 20 points with the soil remedial goals highlighted in the Site Ranking table presented below.

1. Ground	Vater	2. Wellhead	d Protection Area	3. Distance to Surface Water					
Depth to GW <50 points			n water source, or; vate domestic water	<200 horizontal feet: 20 points					
Depth to GW 50 10 poin			e: 20 points	200-1,000 horizontal feet: 10 points					
Depth to GW > 0 point		>200' from priv	-1,000' from water source, or; 0' from private domestic water source: <i>0 points</i> >1,000 horizontal						
Ground Water S	core = 20	Wellhead Pro	otection Score= 0	Surface Water Score= 0					
		Site Rank (1+2+3	3) = 20 + 0 + 0 = 20  p	points					
To	al Site Rani	king Score and A	cceptable Remedial (	Goal Concentrations					
Parameter	20 (	or >	10	0					
Benzene <sup>1</sup>	10 p	ppm	10 ppm	10 ppm					
BTEX <sup>1</sup>	50 p	pm	50 ppm	50 ppm					
TPH	100	ppm	1,000 ppm	5,000 ppm					

A field soil vapor headspace measurement of 100 ppm may be substituted for a laboratory analysis of the benzene and BTEX concentration limits.

#### 4.0 Subsurface Soil Investigation

The vertical extent of hydrocarbon contamination at the site was determined with test excavations of the release area associated with the point of release (POR) to depths ranging from 5 to 14-ft bgs on July 14 and 15, 2004. The lateral extent of contamination was determined with measurements of organic vapor concentrations as the excavation progressed outwardly from the POR. Organic vapor concentrations were measured in the field utilizing an UltraRae PID equipped with a 9.8 eV lamp.

Upon delineating the extents of impacted soil, soil samples were collected from the blending cell, and base and sidewalls of the excavation and analyzed in the field to verify remedial limits had been achieved. Organic vapor concentrations ranged from 15.7 to 82.9 ppm with an average concentration of 50.3 ppm (reference Table 1). In addition, samples were collected and submitted to an independent laboratory for quantification of TPH, BTEX, chlorides and sulfates. Analytical results indicated hydrocarbon concentrations were below NMOCD remedial thresholds for all samples. Chloride concentrations ranged from 384 to 640 mg/Kg, in excess of remedial goals of 250 mg/Kg. Sulfate concentrations ranged from 489 to 691 mg/kg, two samples (SDEJ427472004NBC1-4 and NWW 15) exceeded remedial goals 650 mg/Kg. After further excavation, a grab sample from the excavation bottom and five-point composite samples from the

sidewalls and blending cells were collected and submitted for laboratory analyses. Analytical results indicated that chloride and sulfate concentrations in all samples were below remedial goals (reference Table 1).

#### 5.0 Ground Water Investigation

The projected depth to ground water at this site is <50-ft bgs. Excavation of the site was to a maximum depth of 22-feet. Final field analyses for soil samples collected from the base of the excavation indicated organic vapor concentrations of <300 ppm (reference Table 1). In addition, analytical results for samples collected from the sidewalls and base of the excavation indicated that hydrocarbon, chloride and sulfate concentrations were below NMOCD remedial thresholds (reference Table 1).

The excavation was backfilled with the excavated material after it had been blended to below NMOCD remedial thresholds with clean soil obtained from the right-of-way. Based on the treatment of impacted soil to below remedial goal concentrations and adequate depth to ground water, there is no need for further groundwater investigation at this site.

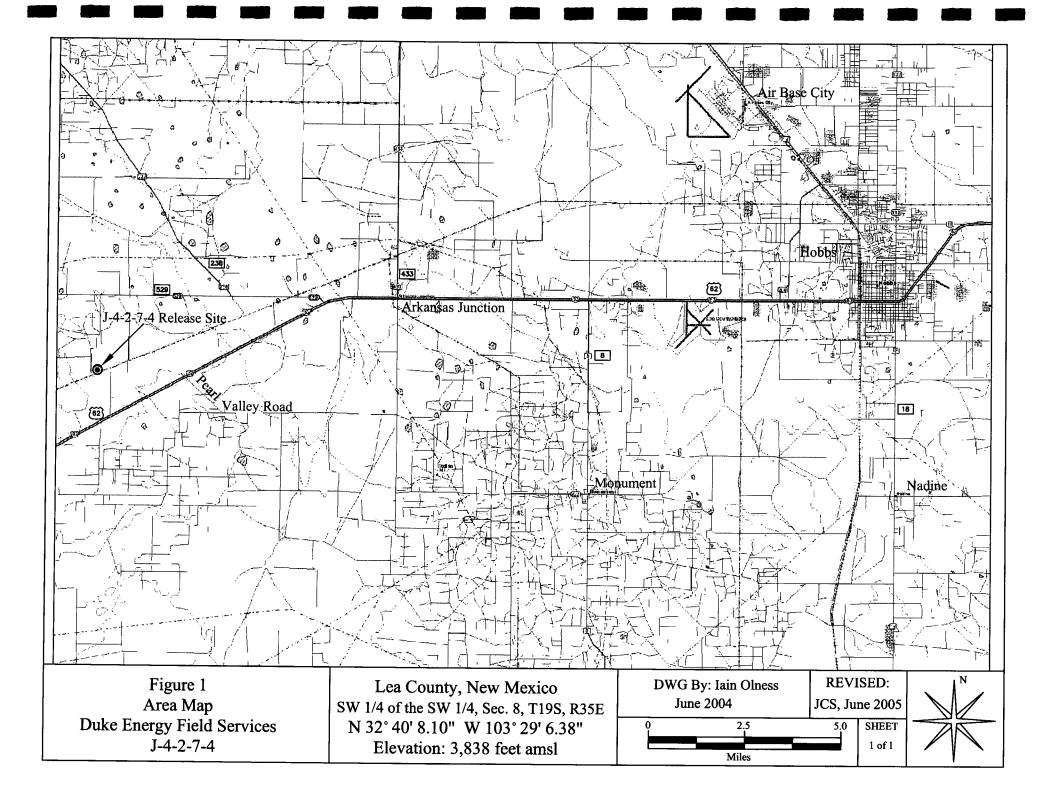
#### 6.0 Remediation Process

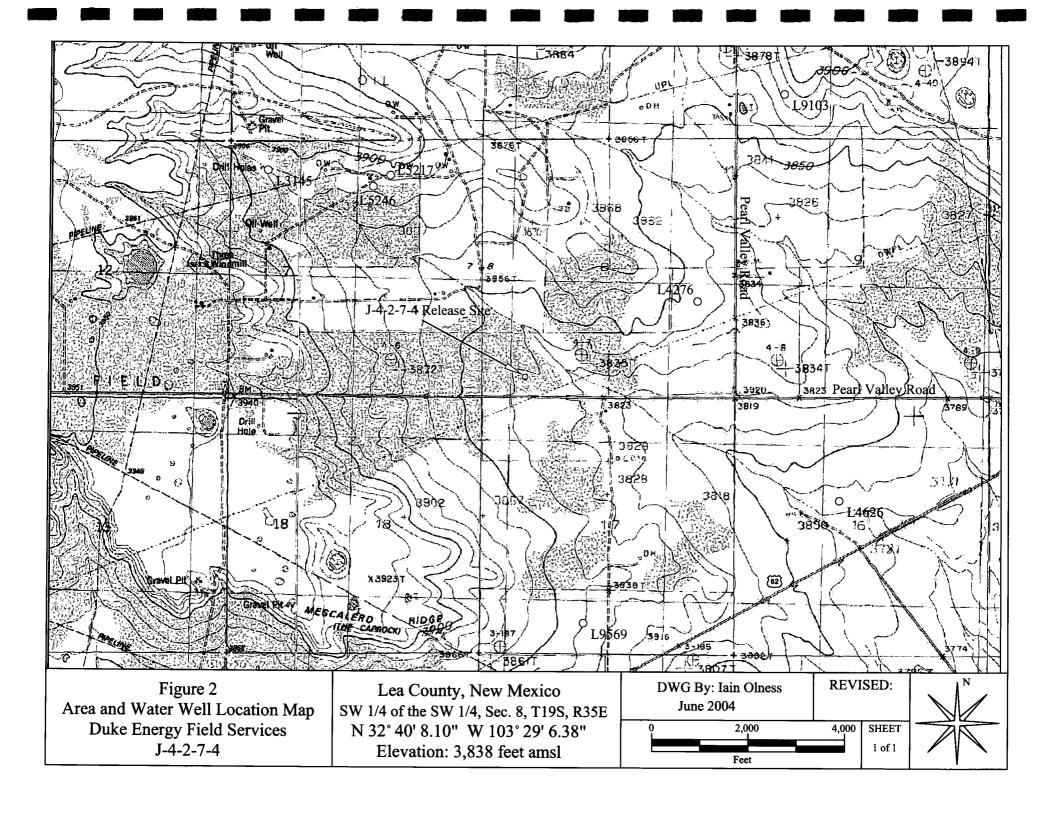
Remediation of the site commenced on July 14, 2004 and continued through August 23, 2004. Remedial activities at the site consisted of excavation of approximately 1,700 yd³ of NGL contaminated soil from the site. Approximately 182 yd³ of NGL impacted soil was transported to the South Monument landfarm for treatment. The remaining contaminated soil was blended with clean soil obtained from the right-of-way. Laboratory analysis of the blending cell five-point composite sample (BC COMP) indicated analytes were below NMOCD remedial thresholds (reference Table 1 and Appendix 1). After laboratory analyses of soil samples collected from the sidewalls and base of the excavation indicated remedial goals had been achieved, the excavation was backfilled with the blended soil. The backfilling and contouring of the site was completed on August 23, 2004.

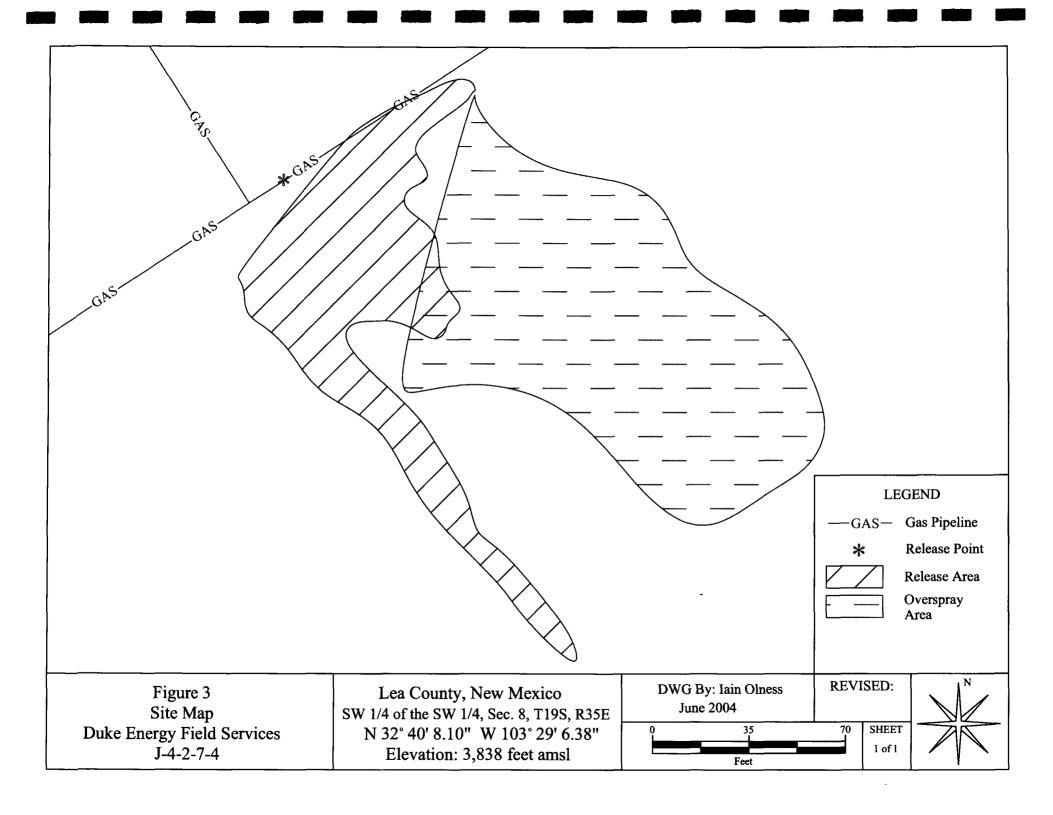
#### 7.0 Closure Justification

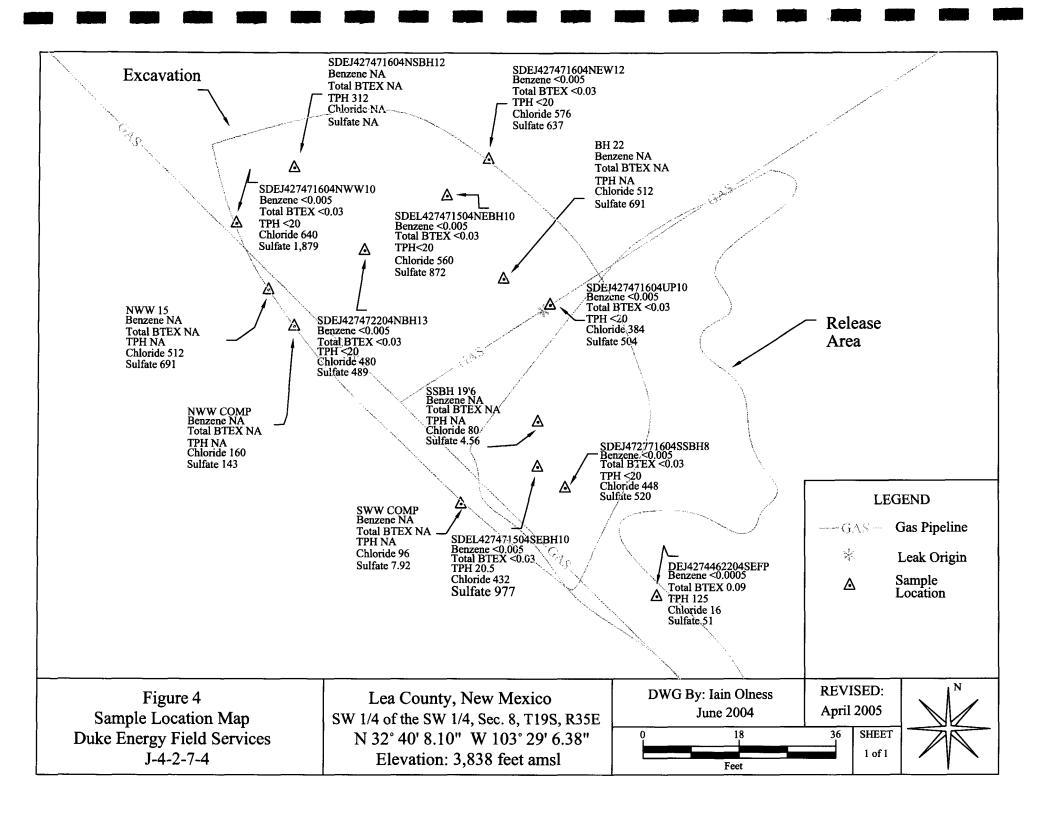
This report documents successful treatment of impacted soil above the remedial thresholds discussed in Section 3 above and confirmed via laboratory analyses for this release site. The NGL impacted soil was excavated with a portion transported to the South Monument landfarm for treatment. The remaining NGL impacted soil was blended with clean soil obtained from the right-of-way and returned to the excavation. 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 and issue a *Site Closure Letter*.

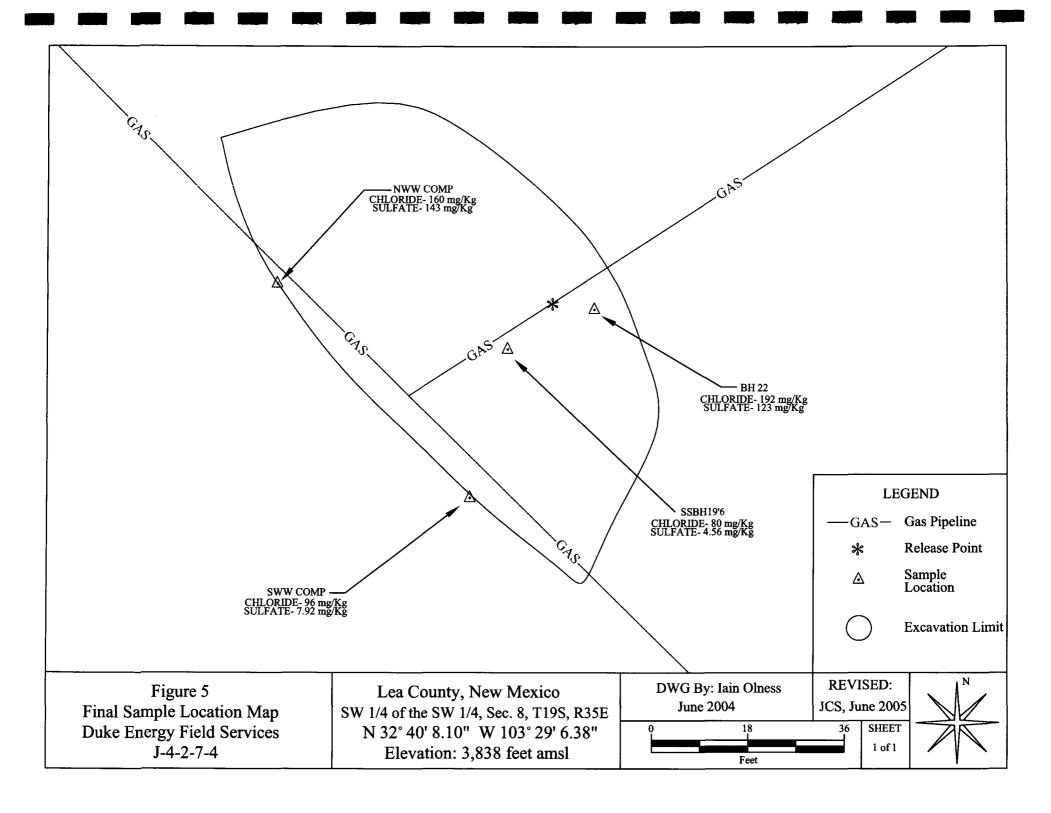
**FIGURES** 











**TABLES** 

TABLE 1
Summary of Excavation Analytical Results

#### J-4-2-7-4 - Ref #130004

Sample ID	Sample Date	Sample Location	Field Analysis	Chloride Field Analysis	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	GRO (C6-C10)	DRO (>C10-C28)	ТРН	Chloride	Sulfate
			(ppm)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
DEJ4274462204SEFP	22-Jun-04	Southeast Flow Path	33	NA	< 0.005	<0.005	0.016	0.074	0.09	<10.0	125	125	16	51
DEJ4274462204SFP	22-Jun-04	South Flow Path	5.5	NA	< 0.005	< 0.005	< 0.005	< 0.015	< 0.030	<10.0	<10.0	<20.0	64	<l< td=""></l<>
SDEL427471404NT5	14-Jul-04	North Trench - 5'	82.9	NA	NA	NA	NA	NA	NA .	NA	NA	NA	NA	NA
SDEL427471404NT6	14-Jul-04	North Trench - 6'	361	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SDEL427471404ST5	14-Jul-04	South Trench - 5'	173	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SDEL427471404ST7	14-Jul-04	South Trench - 7'	81.9	NA	< 0.005	< 0.005	0.023	0.069	0.092	<10.0	46.9	46.9	192	188
SDEL42747140414ST7	14-Jul-04	South Trench - 14'	41.7	NA	< 0.005	< 0.005	< 0.005	< 0.015	< 0.030	<10.0	<10.0	<20.0	32	120
SDEL427471404NT8	14-Jul-04	North Trench - 8'	114	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SDEL427471404NT12	14-Jul-04	North Trench -12'	54.3	NA	< 0.005	< 0.005	< 0.005	< 0.015	< 0.030	<10.0	<10.0	<20.0	980	1,683
SDEL427471404NT7	14-Jul-04	North Trench -7'	34.8	NA	< 0.005	< 0.005	< 0.005	0.031	0.031	<10.0	<10.0	<20.0	277	1,106
SDEL427471404NET5	14-Jul-04	Northeast Trench - 5'	500	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SDEL427471504E13	15-Jul-04	East Trench - 13'	92.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SDEL42747150412E9	15-Jul-04	East Trench - 9'	655	NA	NA NA	NA	NA	NA	NA	NA	NA	NA	NA	NA NA
SDEL427471504SEBH10	15-Jul-04	Southeast Bottomhole - 10'	29.9	NA	<0.005	<0.005	<0.005	<0.005	<0.030	<10.0	20.5	20.5	432	977
SDEL427471504NEBH10	15-Jul-04	Northeast Bottomhole - 10'	. 73	NA	< 0.005	<0.005	<0.005	<0.005	<0.030	<10.0	<10.0	<20.0	560	872
SDEJ427471604NWW10	16-Jul-04	Northwest Sidewall - 10'	28.4	NA	<0.005	<0.005	<0.005	<0.015	<0.030	<10.0	<10.0	<20.0	640	1,879
SDEJ427471604NSBH12	16-Jul-04	North Side Bottomhole - 12'	82.9	NA	NA	NA	NA	NA	NA	<10.0	312	312	NA	NA
SDEJ427471604NEW12	16-Jul-04	Northeast Sidewall - 12'	26.2	NA	<0.005	<0.005	<0.005	<0.015	<0.030	<10.0	<10.0	<20.0	576	637
SDEJ427471604UP10	16-Jul-04	Under Point of Release - 10'	44.5	NA	<0.005	<0.005	<0.005	<0.015	<0.030	<10.0	<10.0	<20.0	384	504
SDEJ472771604SSBH8	16-Jul-04	South Side Bottomhole - 8'	54.2	NA	<0.005	<0.005	<0.005	<0.015	<0.030	<10.0	<10.0	<20.0	448	520
SDEJ427472004NBC1-4	20-Jul-04	North Blending Cell	26.6	NA	<0.005	<0.005	<0.005	<0.015	<0.030	<10.0	412	412	368	691
SDEJ427472004NBC2	20-Jul-04	North Blending Cell	71.2	NA	NA	NA NA	NA	NA	NA	NA	NA	NA	NA	NA
SDEJ427472004SBC3	20-Jul-04	South Blending Cell	58.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
SDEJ427472004SBC4	20-Jul-04	South Blending Cell	42.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA NA
SDEJ427472204NBH13	22-Jul-04	North Bottomhole - 13'	15.7	460	< 0.005	<0.005	<0.005	<0.015	< 0.030	<10.0	<10.0	<20.0	480	489
Pasture	22-Jul-04	Pasture		400	NA	NA	NA	NA	NA	NA	NA	NA	32	NA

BTEX = Benzene, Toluene, Ethylbenzene, Total Xylenes

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

TPH = Total Petroleum Hydrocarbons

ppm = parts per million, which is equivalent to milligrams per kilogram (mg/Kg)

mg/Kg = milligrams per kilogram, which is equivalent to parts per million (ppm)

NA = Not Analyzed

Red, bold values are in excess of NMOCD remedial thresholds

TABLE 1

<u>Summary of Excavation Analytical Results</u>

#### J-4-2-7-4 - Ref #130004

Sample ID	Sample Date	Sample Location	Field Analysis	Chloride Field Analysis	Benzene	Toluene	Ethylbenzene	Total Xylenes	Total BTEX	GRO (C6-C10)	DRO (>C10-C28)	ТРН	Chloride	Sulfate
			(ppm)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
NWW 15	23-Jul-04	Northwest Sidewall - 15'		600	NA	NA	NA	NA	NA	NA	NA	NA	512	691
BH 22	23-Jul-04	Bottomhole - 22'		160	NA	NA	NA	NA	NA	NA	NA	NA	192	123
NWW COMP	9-Aug-04	Northwest Sidewall Composite		160	NA .	NA NA	NA	NA	NA	NA	NA NA	NA	160	143
SSBH 19'6	9-Aug-04	South Side Bottomhole - 19.5'		160	NA	NA	NA	NA	NA	NA	NA	NA	80	4.56
SWW COMP	9-Aug-04	Southwest Sidewall Composite		160	NA	NA	NA	NA	NA	NA	NA NA	NA	96	7.92
ВС СОМР	10-Aug-04	Blending Cell Composite			<0.005	<0.005	<0.005	<0.015	<0.030	<10.0	<10.0	<20.0	160	200
NMOCD Remedia	l Thresholds				10				50			100	250**	650**

<sup>\*\*</sup> Chloride and Sulfate residuals may not be capable of impacting local groundwater abover the New Mexico Water Quality Control Commission standards of 250 mg/L and 650 mg/L, respectively.

BTEX = Benzene, Toluene, Ethylbenzene, Total Xylenes GRO = Gasoline Range Organics

DRO = Diesel Range Organics

DIO - Diesei Range Organics

TPH = Total Petroleum Hydrocarbons

ppm = parts per million, which is equivalent to milligrams per kilogram (mg/Kg)

mg/Kg = milligrams per kilogram, which is equivalent to parts per million (ppm)

NA = Not Analyzed

Red, bold values are in excess of NMOCD remedial thresholds

TABLE 2 DEFS J-4-2-7-4 Ref. # 130004

#### WELL / SURFACE DATA REPORT 06/22/04

DB	File Nbr	Use	Diversion	Owner	Well	Number	Source	Tws	Rng	Sec	(quarters are 1=NW 2=NE 3=SW 4=SE (quarters are biggest to smallest			UTN	UTM are in Meters						Finish Date	Depth Well	Depth to Water
			(acre ft per annum)								a	a	a	UTM Zone	Easting	Northing			1	1			
L	2359	DOM	3	JEWEL A. SMITH	L	2359	Shallow	19S	35E	1	1	3	3	13	648328		9/28/1953	9/28/1953	60	28			
	1		<del></del>		L	5434 S	Shallow	19S	35E	1	2	1	4	13	649328	3618271				1			
L	3945	PRO	3	RALPH LOWE	L	3945	Shallow	19S	35E	1	2	2	3	13	649532	3618274	7/29/1958	7/29/1958	125	70			
	1				I.	3945 APPRO	Shallow	198	35E	1	2	2	3	13	649532	3618274	7/29/1958		125	70			
I.	3945 (1)	PRO	0	T AND T INC.	I.	3945 (1)		198	35E	1	2	2	3	13	649532	3618274	1						
L.	3945 (2)	PRO	0	T AND T INCORPORATION	I.	3945 (2)		19S	35E	1	2	2	3	13	649532	3618274	<u> </u>			1			
L.	5434	COM	39.8	KEY ENERGY SERVICES D/B/A PION	L	5434	Shallow	19S	35E	1	2	2	3	13	649532	3618274	1			1			
	5339	STK	0	CACTUS DRILLING CO.	L	5339	Shallow	19S	35E	1	<del></del>	<del>-</del>	<del>                                     </del>	13	649044	3617770	1/27/1964	2/1/1964	128	83			
 I.	9222	DOM	0	FAYE KLINE	L	9222 (EXP)		19S	35E	2	1	1	<u> </u>	13	646809	3618348				<del>                                     </del>			
L.	5339 (7)	STK	0	SUPERIOR OIL CO.	L.	5344 (7) EXP		19S	35E	4	4	<del>1</del> 1	3	13	644301	3617420	†			t			
	3335 (1)	0111		SOI ENGN OIL CO.	I.	5339 EXP		19S	35E	4	4	3	1	13	644409	3617119	1			<del>                                     </del>			
Ĭ.	5339 (1)	STK	0	JEWEL A. SMITH	I.	5339 (1) EXP		19S	35E	4	4	3	1	13	644409	3617119	i						
I.	5339 (2)	STK	0	EXXON OIL COMPANY	I.	5340 (2) EXP		198	35E	4	4	3	1	13	644308	3617218	1						
ī	5339 (3)	STK	0	EXXON CORP.	I.	5341 (3) EXP	1	198	35E	4	4	3	1 1	13	644308	3617218	1			<b>†</b>			
ī	5339 (4)	STK	0	EXXON CORP.	ī	5342 (4) EXP	<del>                                     </del>	19S	35E	4	4	3	1	13	644308	3617218	<del>                                     </del>			<del>                                     </del>			
ī	5339 (6)	STK	0	MESA PETROLEUM	ī	5343 (6) EXP	-	19S	-35E	4	4	3	1	13	644308	3617218	†						
1	5339 (8)	PRO	0	DUAL DRILLING	I I	5345 (8) EXP	<u> </u>	19S	35E	4	4	3	1 1	13	644308	3617218	<u> </u>			+			
ī	5339 (8)	STK	0	HONDO DRILLING	I	5346 (9) EXP	<b></b>	19S	35E	4	4	3	1	13	644308	3617218	1	-		+			
I I	9077 (1)	STK	0	SUPERIOR OIL COMPANY	Ī	9077 (1) EXP		198	35E	4	4	3	1 2	13	644508	3617218	<u>†                                     </u>			+			
I	9077 (2)	STK	0	MESA PETROLEUM CO.	L	9077 (2) EXP	<del> </del>	19S	35E	4	4	3	2	13	644508	3617218	<u> </u>	<del> </del>		+			
T T	9077 (3)	STK	0	DUAL DRILLING CO.	I.	9077 (3) EXP	<del>                                     </del>	19S	35E	4	4	3	2	13	644508	3617218				+			
L	9077 (3)	STK	0	FRED POOL OPER.	L	9077 (4) EXP	<u> </u>	19S	35E	4	4	3	2	13	644508	3617218							
L	9078 (4)	STK	0	MCVAY DRILLING CO.	L I	9077 (5) EXP	<u> </u>	19S	35E	4	4	3	2	13	644508	3617218	<del> </del>			+			
L	9079 (3)	PRO	0		I.	` ' '		19S	35E	4	4	3	2	13	644508	3617218				+			
L	9080 (6)	PRO	0	POE PROPERTIES INC. SOUTHLAND ROYALTY	T.	9077 (6) EXP 9077 (7) EXP	-	19S	35E	4	4	3	2	13	644508	3617218	· · · · · · · · · · · · · · · · · · ·			+			
<u>L</u>	9103	STK	3	SUPERIOR OIL COMPANY	L.	9103	Shallow	195	35E	4	4	3		13	644409	3617218	2/22/1983	2/22/1983	140	70			
<u>L</u>	<del> </del>		3	<u> </u>	L I	<del></del>	Shallow	19S	35E	4	4	3	<del> </del>	13	644409		2/22/1983	2/22/1983	140	+ -/-			
	9103 (1)	STK	0	SOUTHLAND ROYALITY	L	9103 (1) EXP	<u>                                     </u>			4	4	3	<del>                                     </del>			3617119	<del>                                     </del>	ļ		<del> </del>			
<u>L</u>	9103 (2)	STK	<u> </u>	AMOCO PRODUCTION	L	9103 (2) EXP	Challer	198	35E	<u>'</u>	4	<del>                                     </del>	<del> </del>	13	644409	3617119	0/4/1002	8/4/1983	150				
<u> </u>	9294	STK	3	GETTY OIL COMPANY	L	9294	Shallow	198	35E	4	4	4	1 1	13	644712	3617223	8/4/1983	8/4/1983	150	<del></del>			
L T	9294 (1)	PRO	0	GETTY OIL	L	9294 (1) EXP		198	35E		4	<del>                                     </del>	1 1	13	644712	3617223	<del>                                     </del>	<u> </u>		<del> </del>			
L	9294 (2)	PRO	0	ELK OIL	L	9294 (2) EXP	61 11	19S	35E	4	4	4	1	13	644712	3617223	2/10/1004	2/10/1004	120	<del></del>			
Ļ	9428	STK	0	ARCO OIL AND GAS COMPANY	L	9428	Shallow	19S	35E	5	<u> </u>	4	3	13	642276	3617802	2/18/1984	2/18/1984	130	<del> </del>			
<del></del>	2060	DD O		TOURDH ON THE	<u>L</u>	9428 EXP	ļ	19S	35E	5	1	4	3	13	642276	3617802							
<u>L</u>	8869	PRO	0	JOSEPH O'NEIL	<u>L</u>	8869 EXP		19S	35E	5	3	2	<del>                                     </del>	13	642384	3617500		<b>—</b>					
<u>L</u>	8869 (2)	PRO	0	JOSEPH O'NEIL	L	8869 (2) EXP		198	35E	5	3	2	<del> </del>	13	642384	3617500	1	<del> </del>		<del> </del>			
<u>L</u>	8869 (3)	PRO	0	JOSEPH O'NEIL PROP. LTD	<u>L</u>	8869 (3) EXP	61 "	198	35E	5	3	2	,	13	642384	3617500	6/10/1050	(11011050	- 00	<del> </del>			
L	3887	DOM	3	JEWEL A. SMITH	<u> </u>	3887	Shallow	198	35E	5	4	2	<u> </u>	13	643290		6/10/1958		90	55			
·	1100			100000000000000000000000000000000000000	<u>L</u>	3887 APPRO	Shallow	19S	35E	5	4	2	2	13	643290		6/10/1958	6/10/1958	90	55			
L	4400	DOM	3	JEWELL A. SMITH	<u>L</u>	4400		19S	35E	5	4	2	2	13	643290	3617607				<del> </del>			
	<del>                                     </del>	D.C.		THURST A STATE OF THE STATE OF	<u>L</u>	4400 APPRO EXP		198	35E	5	4	2	2	13	643290	3617607	ļ			<del>                                     </del>			
<u> </u>	9347	DOM	0	JEWELL SMITH	L	9347 EXP		198	35E	5	4	2	2	13	643290	3617607	1000000	10/4::007		<del></del>			
L	9347 (1)	DOM	3	FOREST OIL COMPANY	<u>L</u>	9347 (1)	Shallow	198	35E	5	4	2	2	13	643290		10/3/1983	10/4/1983	94	55			
L	10613	STK	3	E P CAUDILL INC	L	10613		19S	35E	5	4	2		13	643191	3617508	1.000.000	1		ļ			
L	11281	DOM	3	LONNIE R. DICKERSON	L	11281	Shallow	198	35E	5	4	2	4	13	643290		12/18/2001		102				
L	5178	DOM	0	DALMONT RANCH JOINT VENTURE	L	5178	Shallow	198	35E	5				13	642590	3617695	6/17/1963		142	85			
L	4211	DOM	3	GENE DALMONT	L	4211	Shallow	19S	35E	6	3	1		13	640375	3617481	7/25/1959		130	60			
					L	4211 APPRO	Shallow	198	35E	6	3	1	L	13	640375	3617481	7/25/1959	7/26/1959	130	60			
L	5220 (1)	PRO	0	TXO PRODUCING CORP.	L	5220 (1) EXP		19S	35E	6	4	1	<u> </u>	13	641172	3617488	<u> </u>	<u> </u>					
L	5220	PRO	0	DALMONT RANCH JOINT VENTURE	L	5220	Shallow	19S	35E	6				13	640983	3617681	8/1/1963	8/1/1963	100	55			
L	3145	PRO	3	PETE LOMAX DRILLING CO.	L	3145	Shallow	19S	35E	7	1	1		13	640385	3616674	3/12/1956	3/12/1956	97	45			

## APPENDIX I LABORATORY ANALYTICAL REPORTS AND CHAIN-OF-CUSTODY FORMS



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: IAIN OLNESS P.O. BOX 1558 EUNICE, NM 88231

FAX TO: (505) 394-2601

Receiving Date: 07/01/04 Reporting Date: 07/06/04

Project Number: 130004

Project Name: DUKE ENERGY FIELD SERVICES/J-4-2-7-4

Project Location: NOT GIVEN

Sampling Date: 06/22/04 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 <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:	07/02/04	07/02/04	07/02/04	07/02/04	07/02/04	07/02/04
H8873-1 DEJ427462204SEFP	<10.0	125	<0.005	<0.005	0.016	0.074
H8873-2 DEJ427462204SFP	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
Quality Control	784	831	0.100	0.094	0.087	0.261
True Value QC	800	800	0.100	0.100	0.100	0.300
% Recovery	98.0	104	100	94.4	87.4	87.1
Relative Percent Difference	5.6	2.0	4.4	5.2	4.9	21

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

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

Date

H8873A.XLS



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

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: IAIN OLNESS P.O. BOX 1558 EUNICE, NM 88231

FAX TO: (505) 394-2601

Receiving Date: 07/01/04
Reporting Date: 07/06/04

Sampling Date: 06/22/04 Sample Type: SOIL

Reporting Date: 07/06/04 Project Number: 130004

Sample Condition: COOL & INTACT

Project Number: 130004

Project Name: DUKE ENERGY FIELD SERVICES/J-4-2-7-4

Sample Received By: AH

Project Location: NOT GIVEN

Analyzed By: HM

		Sulfate	CI
LAB NUMBER	SAMPLE ID	(mg/Kg)	(mg/Kg)

ANALYSIS E	ATE:	07/02/04	07/02/04
H8873-1	DEJ427462204SEFP	51.4	16
H8873-2	DEJ427462204SFP	<1	64
Quality Cont		49.21	1000
Quality Cont		48.21	1000
True Value (	JC	50.00	1000
% Recovery		96.4	100
Relative Per	cent Difference	6.2	2.0

METHODS: EPA 600/4-79-02 375.4 325.3

Imy All
Chemist

#### **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

Company Name Environmental Plus, Inc.  EPI Project Manager Isin Oiness  Billing Address P.O. BOX 1558  City, State, Zip Eunice New Mexico 88231  EPI Phones# ax# 505-394-3481 (595-394-2801)  Client Company Duke Energy Field Services  Facility Name J-4-2-7-4  Project Reference 130004  EPI Sampler Name Eddie Joe Harper  LAB I.D. SAMPLE I.D. 00 B J J J J D D D D D D D D D D D D D D D	303-333-2320 1													770-7020													
Billing Address			s, Inc	<b>.</b>					多書			Bill	To	<b>对指责</b> 书		100		10.7	AN/	<b>LY</b>	SIS	RE	QUI	EST		1	送
City, State, Zip																								1 1			
EPI Phone#Fax#   505-394-3481 / 505-394-2601												235	San S	Dec.											ĺ	1	
Client Company										3	e de		Ш			İ				,				1 1	.	ı	. 1
Comparing   Date   Energy Field Services   Fax Results To Isin Olness 505-394-2601   Fax Results To Isin Olness			_		1_		<	100 mg/m					E P				l									l	
Project Reference			ervic	es				-			<u>- 20</u>	7		<i> </i>										1 1		ı	
EPI Sampler Name  Eddie Joe Harper    MATRIX   PRESERV. SAMPLING											ng.	4.64 4.64 4.64 4.64 4.64 4.64 4.64 4.64	<b>IIII</b>			1	1			•					. 1	- 1	
LAB I.D. SAMPLE I.D. BURN ON THE TIME IN THE PRESENT SAMPLING    Comparison of the Particular Sample Received By Sample Cost Intact    Cost																	1				-			f I			
LAB I.D. SAMPLE I.D.   Sample Reinaugher   Checked by:   Sample Cook intact   Checked by:   Checked	EPI Sampler Nar	me Eddie Joe Harper																1									
W & 7 3 -   DEJ427462204SEP							MAT	RIX			PRI	ESE	RV.	SAME	LING	1	1	}			•						. }
H	LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMF	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	отнея:	ACID/BASE	ICE/COOL	отнея	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cf)		ЬH	TCLP	OTHER >>>					
Sampler Relinquished  Sampler Relinquished  Oate Received By:  Fax Results To Iain Oiness 505-394-2601  REMARKS:  Fax Results To Iain Oiness 505-394-2601  REMARKS:  Sample Cool Intact Checked By:	H8873-11	DEJ427462204SEFP	C				X					X		22-Jun	13:15	X	X	X	Х					П	П	$\Box$	
Sampler Relinquished:    Date   Received By:   Fax Results To Iain Olness 505-394-2601   Remarks:			C	1			Х					X		22-Jun	13:20	X	X	X	Х		Г	П		П	$\Box$	$\Box$	
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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: IAIN OLNESS P.O. BOX 1558 EUNICE, NM 88231

FAX TO: (505) 394-2601

Receiving Date: 07/14/04 Reporting Date: 07/16/04

Project Number: 130004

Project Name: DUKE ENERGY FIELD SERVICES

Project Location: L-4274

Sampling Date: 07/14/04 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: BC

LAB NO.	SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> )	DRO (>C <sub>10</sub> -C <sub>28</sub> )	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES
		(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
ANALYSI	IS DATE:	07/14/04	07/14/04	07/16/04	07/16/04	07/16/04	07/16/04
H8910-1	SDEL427471404ST7	<10.0	46.9	<0.005	<0.005	0.023	0.069
H8910-2	SDEL42747140414ST7	<10.0	<10.0	< 0.005	<0.005	<0.005	<0.015
H8910-3	SDEL427471404NT12	<10.0	<10.0	< 0.005	<0.005	<0.005	<0.015
H8910-4	SDEL42747140416NT7	<10.0	<10.0	<0.005	<0.005	<0.005	0.031
Quality C	Control	787	738	0.093	0.095	0.095	0.290
True Valu	ue QC	800	800	0.100	0.100	0.100	0.300
% Recov	ery	98.4	92.2	92.8	94.9	95.0	96.7
Relative I	Percent Difference	6.6	3.3	1.7	3.7	8.5	9.0

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

Burgess J. A. Cooke. Ph. D.

Date

H8910.XLS



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

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: IAIN OLNESS P.O. BOX 1558 EUNICE, NM 88231

FAX TO: (505) 394-2601

Receiving Date: 07/14/04

Reporting Date: 07/16/04 Project Number: 130004

Project Name: DUKE ENERGY FIELD SERVICES

Project Location: L-4274

Sampling Date: 07/14/04

Sample Type: SOIL

Sample Condition: COOL & INTACT

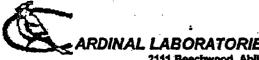
Sample Received By: AH

Analyzed By: HM

LAB NUMBER	R SAMPLE ID	Sulfate (mg/Kg)	CI (mg/Kg)
ANALYSIS DA	NTE:	07/16/04	07/16/04
H8910-1	SDEL427471404ST7	188	192
H8910-2	SDEL42747140414ST7	120	32
H8910-3	SDEL427471404NT12	1683	980
H8910-4	SDEL42747140416NT7	1106	277
Quality Contro	ı	48.21	990
True Value Q		50.00	1000
% Recovery		96.4	99.0
Relative Perce	ent Difference	6.2	1.0
METHODS: E	PA 600/4-79-02	375.4	SM 4500-Cl B

themist/

Date



#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2111 Beechwood, Abliene, TX 79603 101 East Mariand, Hobbs, NM 8824

	(915) 673-700	1 Fax (915) 673-70	20 (	505	393	-232	6 Fax	c (50	15) 3	93-2	2476		•	• .						Page	of	
Company Name:	Duke ENEM	7															ANAL	YSIS	REQ	JEST		
Project Manager:	PAUL MUL	kry							P.0	, Ø											- 1	1
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city: Habb 5		State: NM	Zip:						Attı	n:		-3	TRIN			- 1			ĺ			
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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to (915) 673-7020.



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

Receiving Date: 07/16/04 Reporting Date: 07/21/04

Project Number: 130004

Project Name: J-4-2-7-4 (DUKE ENERGY FIELD SERVICES)

Project Location: NOT GIVEN

Sampling Date: 07/15 & 07/16/04

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: HM

Analyzed By: BC

LAB NO. SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:	07/20/04	07/20/04	07/20/04	07/20/04	07/20/04	07/20/04
H8923-1 SDEJ427471504SEBH10	<10.0	20.5	<0.005	<0.005	<0.005	<0.015
H8923-2 SDEJ427471504NEBH10	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H8923-3 SDEJ427471604NSBH12	<10.0	312	*	*	*	*
H8923-4 SDEJ427471604NWW10	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H8923-5 SDEJ427471604UP10	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H8923-6 SDEJ427471604SSBH8	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H8923-7 SDEJ427471604NEW12	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
Quality Control	744	768	0.090	0.091	0.090	0.268
True Value QC	800	800	0.100	0.100	0.100	0.300
% Recovery	93.1	96.1	89.7	91.4	90.1	89.5
Relative Percent Difference	5.1	0.4	5.7	3.7	5.4	8.1

\*BTEX analysis not performed since TPH >100 mg/Kg.

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

Burgess J. M. Cooke. Ph. D.

Date

H8923A.XLS



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

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: IAIN OLNESS

P.O. BOX 1558 EUNICE, NM 88231

FAX TO: (505) 394-2601

Receiving Date: 07/16/04 Reporting Date: 07/22/04

Project Number: 130004

Project Name: J-4-2-7-4 DEFS Project Location: NOT GIVEN

Sampling Date: 07/15-07/16/04

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: HM

Analyzed By: HM

		Sulfate	CI
LAB NUMBER	SAMPLE ID	(mg/Kg)	(mg/Kg)

ANALYSIS [	DATE:	07/20/04	07/19/04
H8923-1	SDEJ427471504SEBH10	977	432
H8923-2	SDEJ427471504NEBH10	872	560
H8923-4	SDEJ427471604NWW10	1879	640
H8923-5	SDEJ427471604UP10	504	384
H8923-6	SDEJ427471604SSBH8	520	448
H8923-7	SDEJ427471604NEW12	637	576
<b>Quality Cont</b>	rol	48.21	990
True Value (	QC	50.00	1000
% Recovery		96.4	99.0
Relative Per	cent Difference	6.2	1.0

	T	
METHODS: EPA 600/4-79-02	375.4	SM 4500-CFB

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

Chemist

Data

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, juctuding 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 servicid for the above shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurrently 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.

#### **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

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-5	SDEJ427471604UP1	10	С	1			X					Х		16-Jul	13:00	X	Х	Х	Х		Г					П	
-4	SDEJ427471604SS	3H8	С	1			X					X		16-Jul	13:15	X	Х	X	X		Г						
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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: IAIN OLNESS P.O. BOX 1558 EUNICE, NM 88231 FAX TO: (505) 394-2601

Receiving Date: 07/23/04 Reporting Date: 07/27/04

Project Number: NOT GIVEN

Project Name: J 4274 (DUKE ENERGY)

Project Location: NOT GIVEN

Sampling Date: 07/20/04

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: GP

Analyzed By: BC

LAB NO. SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	BENZENE (mg/Kg)	XYLENES (mg/Kg)
ANALYSIS DATE:	07/26/04	07/26/04	07/25/04	07/25/04	07/25/04	07/25/04

ANALYSIS DATE:	07/26/04	07/26/04	07/25/04	07/25/04	07/25/04	07/25/04
H8950-1 SDEJ427472004NBC1-4	<10.0	412	<0.005	<0.005	<0.005	<0.015
Quality Control	738	849	0.095	0.098	0.095	0.287
True Value QC	800	800	0.100	0.100	0.100	0.300
% Recovery	92.3	106	95.4	98.3	94.6	95.6
Relative Percent Difference	3.8	1.2	2.9	4.7	3.8	4.8

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

Burgess J. A. Cooke/Ph. D.

Date

H8950A.XLS

PLEASE NOTE: Llability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.





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ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: IAIN OLNESS

P.O. BOX 1558

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

Receiving Date: 07/23/04 Reporting Date: 07/26/04

Project Number: NOT GIVEN

Project Name: J 4274 (DUKE ENERGY)

Project Location: NOT GIVEN

Sampling Date: 07/20/04

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: GP

Analyzed By: HM

		SO <sub>4</sub>	CI
LAB NUMBER	SAMPLE ID	(mg/Kg)	(mg/Kg)

ANALYSIS DATE:	07/23/04	07/23/04
H8950-1 SDEJ427472004NBC1-4	691	368
Quality Control	50.98	990
True Value QC	50.00	1000
% Recovery	102	99.0
Relative Percent Difference	1.2	1.0
METHODS: EPA 600/4-79-020	375.4	4500-Cl^B*

NOTE: Analyses performed on a 1:4 w.v aqueous extract.

\*Std. Methods

Bucas A Coh

Date



#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES, INC.
2111 Beechwood, Abliene, TX 79603 101 East Marland, Hobbs, NM 88240

	(915) 673-7001 Fax (915) 673-7020 (505) 393-2326							Fax (505) 393-2476							•	·								
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Project Name:									s	tat	<b>9:</b> /			Zlp: 8	8231		1						1 1	
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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to (915) 573-7020.



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

Receiving Date: 07/22/04
Reporting Date: 07/23/04
Project Number: NOT GIVEN
Project Name: NOT GIVEN

Project Name: NOT GIVEN Project Location: J4274

Sampling Date: 07/22/04 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH

1.3

0.6

Analyzed By: BC

LAB NO. SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (>C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:	07/23/04	07/23/04	07/23/04	07/23/04	07/23/04	07/23/04
H8946-1 SDEJ427472204NBH13	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
Quality Control	744	768	0.093	0.094	0.091	0.273
True Value QC	800	800	0.100	0.100	0.100	0.300
% Recovery	93.1	96.1	92.6	93.7	91.0	91.0

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

Burgess J. A. Cooke. Ph. D

Relative Percent Difference

Date

0.6

2.8

H8946A.XLS



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

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: IAIN OLNESS P.O. BOX 1558 EUNICE, NM 88231

FAX TO: (505) 394-2601

Receiving Date: 07/22/04
Reporting Date: 07/23/04

Project Number: NOT GIVEN
Project Name: NOT GIVEN
Project Location: J4274

Sampling Date: 07/22/04 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: HM

		Sulfate	CI
LAB NUMBER	SAMPLE ID	(mg/Kg)	(mg/Kg)

ANALYSIS D	DATE:	07/23/04	07/23/04
H8946-1	SDEJ427472204NBH13	489	480
H8946-2	PASTURE		32
Quality Cont	ral	48.21	990
True Value C	· · · · · · · · · · · · · · · · · · ·	50.00	1000
% Recovery		96.4	99.0
Relative Per	cent Difference	6.2	1.0

METHODS: EPA 600/4-79-02	375.4	SM 4500-CFB
	0.0.7	0141 1000 01 0

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

Chemist J. L.

7/23/04 Date



#### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES, INC.
2111 Beechwood, Abilene, TX 79603 101 East Marfand, Hobbs, NM 88240

	(815) 6/3-/00	1 Fax (915) 673-702	٧	(ana	38.	<b>5-23</b> .	20 F	ax (	رمىد	39	3-24	76											
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Project Manager:	Paul Mul	KEY							F	.o.	#;			···								- 1	
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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to (915) 673-7020.



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

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: IAIN OLNESS

P.O. BOX 1558

**EUNICE, NM 88231** 

FAX TO: (505) 394-2601

Receiving Date: 07/23/04

Reporting Date: 07/26/04

Project Number: 130004

Project Name: J 4274 (DUKE ENERGY)

Project Location: NOT GIVEN

Sampling Date: 07/23/04

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: HM

		SO <sub>4</sub>	CI
LAB NUMBER	SAMPLE ID	(mg/Kg)	(mg/Kg)

ANALYSIS DATE:	07/23/04	07/23/04
H8947-1 NWW 15	691	512
H8947-2 BH 22	123	192
Quality Control	50.98	990
True Value QC		
	50.00	1000
% Recovery	102	99.0
Relative Percent Difference	1.2	1.0
METHODS: EPA 600/4-79-020	375.4	4500-Cl <sup>-</sup> B*

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

\*Std. Methods

Buiga AROSOLI Chemist

Date

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES, INC.
2111 Beechwood, Abliene, TX 79603 101 East Mariand, Hobbs, NM 88240

	(915) 673-700	1 Fax (915) 673-702	<b>10</b>	<i>i</i> 505	i) 39	3-23	26 F	ax (	5051	) <b>3</b> 9	3-24	£78			•								==_
Company Name:	Duke Ease			· · ·	, , ,								Ŷ)	11.70				ANA	LYSIS	REQ	JEST		
Project Manager:	Paul Mulk	-69							F	².O.	#;		ئنننى										
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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to (915) 673-7020.



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

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: IAIN OLNESS P.O. BOX 1558 EUNICE, NM 88231

FAX TO: (505) 394-2601

Receiving Date: 08/09/04 Reporting Date: 08/10/04

Project Number: 130004

Project Name: DUKE ENERGY FIELD SERVICES

METHODS: EPA 600/4-79-02

Project Location: J4274

Sampling Date: 08/09/04

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC

SM 4500-Cl<sup>-</sup>B

Analyzed By: AH

LAB NUMBE	ER SAMPLE ID	Sulfate (mg/Kg)	CI (mg/Kg)
ANALYSIS D	DATE:	08/10/04	08/10/04
H8992-1	NWW COMP	143	160
H8992-2	SSBH 19'6	4.56	80
H8992-3	SWW COMP	7.92	96
Quality Cont	rol	48.21	1040
True Value C	QC .	50.00	1000
% Recovery		96.4	104
Relative Per	cent Difference	6.2	4.0

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

Chemist Chemist

Date

375.4

### ARDINAL LABORATORIES, INC. 2111 Beechwood, Abliene, TX 79803 101 East Mariand, Hobbs, NM 88240

#### **CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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Project Manager:	PAUL Mule	er							F	P.O.	#:								1				
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<sup>†</sup> Cardinal cannot accept verbal changes. Please fax written changes to (915) 673-7020.



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: IAIN OLNESS P.O. BOX 1558

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

Receiving Date: 08/10/04 Reporting Date: 08/12/04

Project Number: J4274

Project Name: DUKE ENERGY FIELD SERVICES

Project Location: NOT GIVEN

Sampling Date: 08/10/04

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: BC

	GRO	DRO			ETHYL	TOTAL
LAB NUMBER SAMPLE ID	( 0,	(>C <sub>10</sub> -C <sub>28</sub> )	BENZENE	TOLUENE		XYLENES
	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)

ANALYSIS DATE:		08/11/04	08/11/04	08/11/04	08/11/04	08/11/04	08/11/04
H8995-1 BC C	OMP	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
	<del></del>						<u> </u>
Quality Control		777	785	0.098	0.097	0.090	0.281
True Value QC		800	800	0.100	0.100	0.100	0.300
% Recovery		97.1	98.2	97.6	96.5	89.8	93.8
Relative Percent Diff	ference	3.4	2.3	0.3	2.9	3.0	2.1

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

Burgess J. Al. Cooke. Ph. D.

Date

H8995.XLS



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

ANALYTICAL RESULTS FOR ENVIRONMENTAL PLUS, INC.

ATTN: IAIN OLNESS P.O. BOX 1558 EUNICE, NM 88231

FAX TO: (505) 394-2601

Receiving Date: 08/10/04 Reporting Date: 08/11/04

Project Number: J4274

Project Name: DUKE ENERGY FIELD SERVICES

Project Location: NOT GIVEN

Sampling Date: 08/10/04 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH

Analyzed By: AH

		Sulfate	CI
LAB NUMBER	SAMPLE ID	(mg/Kg)	(mg/Kg)

ANALYSIS DATE:	08/11/04	08/11/04	
H8995-1 BC COMP	200	160	
Quality Control	48.21	1040	
True Value QC	50.00	1000	
% Recovery	96.4	104	
Relative Percent Difference	6.2	4.0	

METHODS: EPA 600/4-79-02	375.4	SM 4500-Cl B

Note: Analyses performed on a 1:4 w:v aqueous extract.

Chemist J

8)11)04 Date ARDINAL LABORATORIES, INC.
2111 Beechwood, Abilene, TX 79603 101 East Mariand, Hobbs, NM 88240

(915) 673-7001 Fax (915) 673-7020 (505)	393-2326 Fax (505) 393-2476	Pageof
Company Name: Du Kε		ANALYSIS REQUEST
Project Manager: Paul Mulkey	BILLTO PO#:	
Address:	Company: $\mathcal{EPI}$	
City: Hobbs State: Zip:	Attn: ZAIN	
Phone #:	Address:	
Fax #:	City: Eurice	
Project #: J 4274 Project Owner:	State: W. ~ Zip:	
Project Name:	Phone #: 394-3481	
Project Location: Eddu / loc	Fax #:	
FOR LAB USE ONLY MATRIX	PRES. SAMPLING	
(G)RAB OR (C)OMP. #CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID: ICE / COOL OTHER:	2 - 15 M
H8995-1 BC Comp. 6	~ 81604 1:Pr	
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LEASE NOTE: Liability and Damages, Cardnel's lability and clent's exclusive remody for any dalm ansing whether base inalyses. All disims including those for negligence and any other cause whatsoever shall be deemed walved unless made in arvice. In no event shall Cardnel be liable for incidental or consequental damages, including without limitation, business in illitates or successors artising out of or related to the performance of services hereunder by Cardnal, reprintess of whether	n writing and received by Cardinal within 30 days after corri erruptions, loss of use, or loss of profits incurred by dilent, r such claim is based upon any of the above stated reason	pletion of the applicable 30 days paint due at the rate of 24% per annum from the original date of invoice, its subsidiaries, and all costs of collections, including attorney's fees.
Sampler Relinquished:  Date: Received By:	Fax Result	
MILLI HONE	REMARKS	
Relinquished By:  Date: 10104 Received By: (I	Hell	
Delivered By: (Circle One) Sample Condition	(Initials)	
Sampler - UPS - Bus - Other:		
† Cardinal cannot accept verbal changes. Please fax written chang	es to 915-673-7020.	

## APPENDIX II PROJECT PHOTOGRAPHS



Photo #1: Release area, looking easterly along the pipeline. Photo #2: Looking down on north test trench. Dark soil indicates contamination.



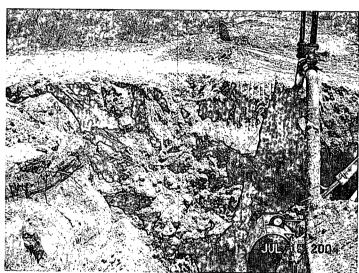


Photo #3: Excavation activities, looking easterly.

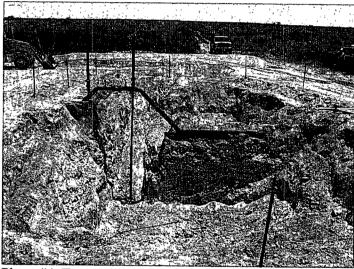


Photo #4: Excavation, looking southerly.

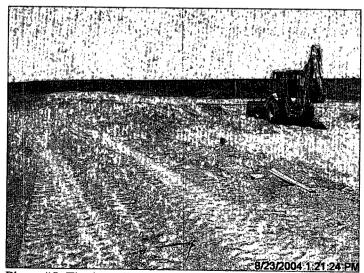
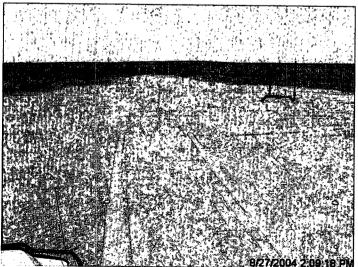


Photo #5: Final grading and contouring, looking northerly. Photo #6: Site graded and contoured, looking northerly.



# APPENDIX III SITE INFORMATION AND METRICS FORM AND FINAL NMOCD C-141 FORM



**Incident Date: NMOCD Notified:** Duke Energy Field Services Site June 21, 2004 @ 1300 June 21, 2004 @ 1700 Information and Metrics Site: J-4-2-7-4 Assigned Site Reference #: 130004 Company: Duke Energy Field Services **Street Address:** Mailing Address: 1625 West Marland Hobbs, New Mexico 88240 City, State, Zip: Representative: Mark R. Owens Representative Telephone: (505) 397-5541 Telephone: Fluid volume released (bbls):  $\approx 8$  barrels **Recovered (bbls):** 0 barrels >25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Gas) 5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas) Leak, Spill, or Pit (LSP) Name: J-4-2-7-4 Source of contamination: 6" Polyethylene Pipeline Land Owner, i.e., BLM, ST, Fee, Other: Snyder Ranches LSP Dimensions: 80 feet by 35 feet LSP Area:  $\approx 2.780 \text{ ft}^2$ Location of Reference Point (RP): Location distance and direction from RP: Latitude: N 32° 40' 8.09754" Longitude: W 103° 29' 6.3812" Elevation above mean sea level: 3,838 Feet from South Section Line: Feet from West Section Line: Location- Unit or 1/4/4: SW1/4 of the SW1/4 Unit Letter: M **Location- Section: 8 Location- Township: T19S** Location- Range: R35E Surface water body within 1000 'radius of site: none Domestic water wells within 1000' radius of site: none Agricultural water wells within 1000' radius of site: none Public water supply wells within 1000' radius of site: none **Depth from land surface to ground water (DG):**  $\approx 45$ ' below ground surface Depth of contamination (DC): Unknown Depth to ground water (DG – DC = DtGW): < 501. Ground Water 2. Wellhead Protection Area 3. Distance to Surface Water Body If Depth to GW <50 feet: 20 points If <1000' from water source, or;<200' from <200 horizontal feet: 20 points If Depth to GW 50 to 99 feet: 10 points private domestic water source: 20 points 200-100 horizontal feet: 10 points If >1000' from water source, or; >200' from If Depth to GW >100 feet: 0 points >1000 horizontal feet: 0 points private domestic water source: 0 points  $Ground\ water\ Score = 0$ Wellhead Protection Area Score= 0 Surface Water Score= 0 Site Rank (1+2+3) = 0**Total Site Ranking Score and Acceptable Concentrations** Parameter >19 10-19 0-9 Benzene<sup>1</sup> 10 ppm 10 ppm 10 ppm BTEX 50 ppm 50 ppm 50 ppm TPH 100 ppm 1000 ppm 5000 ppm

100 ppm field VOC headspace measurement may be substituted for lab analysis

<u>District I</u> 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 1220 S. St. Francis Dr., Santa Fe, NM 87505

#### State of New Mexico **Energy Minerals and Natural Resources**

Oil Conservation Division

**Release Notification and Corrective Action** 

Submit 2 Copies to appropriate District Office in accordance

Form C-141

Revised March 17, 1999

1220 South St. Francis Dr. with Rule 116 on back side of form Santa Fe, NM 87505

OPERATOR					☐ Initial Report		l Report		
Name of Company				Contact					
	Energy Field Se	rvices	7.17		Mark R. Ov				
Addre		Johns Now Mari	co 88240		<b>Telephone</b> 505-397-55				
1625 West Marland, Hobbs, New Mexico 88240  Facility Name			Facility Ty						
J-4-2-7						lene Pipeline			
C	- 0			Minoral Ow			I coss N		
I	e Owner Ranches			Wilheral Ow	neral Owner			Lease No.	
511)401				OCATION	OF RELEAS	STF			
Unit	Section	Township	Range	Feet from the		Feet from the East/We	est County	: Lea	
Letter M	8	T19S	R35E	Line Line		Line	Lat. N 32° 40' 8.09754" Lon. W 103° 29' 6.3812"		
	<u> </u>		1	NATURE O	F RELEASI	<del> </del>			
	Release				Volume of Rele		Volume Rec	overed	
	Gas Pipeline Flu	ids			8 barrels			0 barrels	
	of Release	operating at 25 lbs	with a normal of	daily flow rate	Date and Hour June 21, 2004			Date and Hour of Discovery June 21, 2004 @ 1600	
of 30 M	CF								
Was In	nmediate Notice		□ No 🏻	Not Deguined	If YES, To Whom? Larry Johnson				
By Who					<u> </u>			<del> </del>	
	om: ness of EPI				Date and Hour June 23, 2004 @ 1120				
Was a Watercourse Reached? Yes No			If YES, Volume Impacting the Watercourse. NA						
If a Wa	tercourse was I	mpacted, Describe	Fully.*						
		olem and Remedial leaking. Clamp Ins		.*					
Describ	e Area Affected	and Cleanup Acti	on Taken.*						
						sposed of at an approv s, benzene = 10 mg/Kg			
						-			
	I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger								
public h	nealth or the envi	ronment. The accer	otance of a C-14	11 report by the	MOCD marked	as "Final Report" does	not relieve the	operator of liability	
should t	public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human								
health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.									
Other ic	derai, state 0,10	Cal laws alid/of fegt	Hations.			II CONSERVA	TION DIV	JISION	
Signature: OIL CONSERVATION DIVISION									
Printed	Printed Name: Mark R. Owens								
E-mail Address: mrowens@Duke-Energy.com  Approved by District Supervisor:									
Title: (	Title: Construction Maintenance Supervisor				Approval Da	ate:	Expiration	Date:	
Date:	Date: 7-1-05 Phone: 505-397-5541			Conditions of	of Approval:		Attached		
	* Attach Additional Sheets If Necessary								