

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

	State of Ne	w Mexic	0
Energy	Minerals and	Natural	Resources

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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

1625 N. French Dr., Hobbs, NM 88240

District I

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

Release Notification and Corrective Action

OPERATOR						Initial Report	🖬 Final Report		
Name of Con	npany				Contact				
Duke Energy	Field Servi	ces			Paul Mulkey	7			
Address					Telephone N	0.	· · · · · · · · · · · · · · · · · · ·		
11525 West	Carlsbad Hy	wy, Hobbs, NI	M 88240		505-397-571	6			
Facility Nam	e	-			Facility Type	· · · · · · · · · · · · · · · · · · ·			
D-2-1 Line					Natural Gas	Pipeline			
Surface Own	er			Mineral Owr	ner	····.	Lease No.		
VMJ, Inc. (V	ernon M. J	ones)		NA			NA	:	
			L	DCATION	OF RELEA	SE			
Unit Letter	Section	Township	Range	Feet from	Feet from	Longitude	Latitude	County:	
ъ	11	18S	38E	South Line	West Line	W103:06:45.38	N32:45:22.91	Las	
Р	11	105	JOL	550	4612	W 103:00:45.38	N32:45:22.91	Lea	
			1	NATURE O	F RELEAS	SE			
Type of Relea	ase				Volume of Release Volume Recovered				
Natural Gas	and associat	ted liquid com	ponents		>15	bbl	0	bbl	
Source of Re	lease				Date and Ho	ur of Occurrence	Date and Hour of D	te and Hour of Discovery	
Steel Natural Gas Pipeline				Unknown 09/17/02 AM					
Was Immedia	te Notice Gi	ven?			lf YES, To W	Vhom?			
🗆 Yes 🖬 No 📮 Not Required			equired	NA					
By Whom?					Date and Ho	ur			
NA					NA				
Was a Water	course Reach	ed?			If YES, Volume Impacting the Watercourse.				

☐ Yes ☑ No NA

NA

Describe Cause of Problem and Remedial Action Taken.*

Internal pipeline corrosion, pipe section removed, looped, eventual replacement planned.

Describe Area Affected and Cleanup Action Taken.*

~9600-ft² surface area affected (3 releases + flowpath). Remediation documentation attached.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

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Signature: Por Multur				<u>OIL CONS</u>	ERVATION DIVISION	
Printed Name:		Paul Mulkey		Approved by District Supe	rvisor:	
Title:	Construc	tion & Mainte	enance Supervisor	Approval Date:	Expiration Date:	
Date:	12/3/02	Phone:	505-397-5716	Conditions of Approval:		Attached .

Attach Additional Sheets If Necessary





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,

Dan

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

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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 \sim 300-ft. The total release affected area comprised \sim 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

<u>The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and</u> <u>Ground-Water Conditions in Southern Lea County, New Mexico," A. Nicholson and A.</u> <u>Clebsch, 1961</u>, describes the near surface geology of southern Lea County as "an intergrade of the Quaternary Alluvium (QA) sediments, i.e., fine to medium sand, with the mostly eroded Cenozoic Ogallala (CO) formation. Typically, the QA and CO formations in the area are capped by a thick interbed of caliche and generally overlain by sandy soil." The release site is located in the 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 Water		2. Wellhe	ad Protection Area	3. Distance to Surface Water		
Depth to GW 20 poi			m water source, or; ivate domestic water	<200 horizontal feet: 20 points		
Depth to GW 50 to 99 feet: 10 points		-	ce: 20 points	200-1000 horizontal feet: 10 points		
Depth to GW 0 poir		>200' from pi	m water source, or; ivate domestic water rce: 0 points	>1000 horizontal feet: <i>0 points</i>		
Ground Water Score = 10		Wellhead P	rotection Score= 0	Surface Water Score= 0		
	Site Rank	(1+2+3) = 10 +	0 + 0 = 10 points (fo	r soil 0-15'bgs)		
T	otal Site Rank	king Score and	Acceptable Remedial C	Soal Concentrations		
Parameter	20 (soil >	> 15° bgs)	10 (soil 0 - 15'bg	<u>s)</u> 0		
Benzene ¹ 10 ppm		ppm	10 ppm	10 pom		
BTEX' 50 ppm		ppm	50 ppm	50 ppm		
ТРН	100	ppm	1000 ppm	5000 ppm		
	¹ 100 ppm field	VOC headspace r	 neasurement 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 SO_4^{--} 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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Plate 1: Site Location Map



Plate 2: Site Topography Map



Duke Energy Field Services



Plate 4: Final Excavation(s) GPS Demarcation



Plate 5 – Nine Section Ground Water Depth Summary

ample Date	Excavation Sampling Area	Depth	SAMPLE ID#	GRO ³	DRO ⁴	TPH⁵	BTEX ⁶	Benzene	Toluene	Ethyl Benzene	Total Xylenes	Cr	SO₄	pН
17-Oct	FlowPath North	(ft - bgs ¹) 2-ft	DD21101702FPN	mg/Kg 10	mg/Kg 153	mg/Kg 163	mg/Kg 0.030	mg/Kg 0.005	mg/Kg 0.005	mg/Kg 0.005	mg/Kg 0.015	mg/Kg	mg/Kg	
17-Oct	FlowPath South	2-ft	DD21101702FPN	10	12	22	0.030	0.005	0.005			144 256	109 56	8.29
17-Oct	FlowPath Pool Area	2-ft	DD21101702FPS	10	12	22	0.030	0.005	0.005	0.005	0.015	144	52	8.74
		2-11	DD21101702POOL			20	0.030	0.005	0.005	0.005	0.015	144	52	8.74
16-Oct	BottomHole		DD21A101602BHC	10	27	37	0.030	0.005	0.005	0.005	0.015	416	68	7.29
8-Nov	BottomHole	12-n 13-ft	SDD21110802ABHC-13		- 21		0.030	0.003	0.005	0.005	0.015	144		7.28
16-Oct	SideWall - South	8-12-ft	DD21A101602SSW	10	29	39	0.030	0.005	0.005	0.005	0.015	64	55	
16-Oct	SideWall - East	8-12-ft	DD21A101602ESW	10	10	20	0.030	0.005	0.005			176	135	7.79
16-Oct	SideWall - North	8-12-11 8-12-ft	DD21A101602ESW	10	10	20	0.030	0.005	0.005	0.005	0.015		221	
16-Oct	SideWall - West									0.005	0.015	96		7.80
	xcavation B	8-12-ft	DD21A101602WSW	10	16	26	0.030	0.005	0.005	0.005	0.015	128	414	7.98
16-Oct	BottomHole	10-ft	DD04D404600DU/C	40	40		0.000	0.005	0.005	0.005	0.045	780		
			DD21B101602BHC	10	10	20	0.030	0.005	0.005	0.005	0.015	752	9049	7.85
21-Oct	BottomHole	12-ft	SDD21102102BBH-12									736	217	8.65
7-Nov	BottomHole	12-ft	SDD21110802BBHC-12									144	1858	
21-Oct	BottomHole	14-ft	SDD21102102BBH-14									784	46	8.69
16-Oct	SideWall - South	6-10-ft	DD21B101602SSW	10	10	20	0.030	0.005	0.005	0.005	0.015	938	9182	7.81
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	7.95
7-Nov	SideWall - East	8-12-ft	SDD21110802BESWC									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									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		
	xcavation 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								
						T								
17-Oct	Background	Surface	DD21101602BG									80	308	8.43

Duke Energy Field Services



Bar Charts: Composite TPH, Chloride and Sulfate Analyses











Lab Analyses Reports and Chain-of-Custody Forms



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

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

Receiving Date: 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 ppm	Ag ppm	Ba ppm	Cd ppm	Cr ppm	Pb ppm	Hg ppm	Se 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	:	5	5	100	1	5	5	0.2	1
H7064-1	SDD2192402-SPHAZ	<1	<1	<5	<0.1	<1	<1	<0.02	<0.1
	Sun an Sun and								
Quality Cont	trol	0.047	5.015	21.48	1.008	4.782	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
% Recovery	1	94.0	100	85.9	101	95.6	102	101	100
Relative Sta	indard 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

R Ook

H7064m

PLEASE NOTE: Llability and Damagea. 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: 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
		1000
Quality Control		1000
True Value QC		1000
% Recovery		100
Relative Percent	Difference	8.0
ETHOD: Standard	d Methods	4500-CI'B

Coole

4/27 Date

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Receiving Date: 09/24/02

Reporting Date: 09/26/02

Project Name: D-2-1

Project Number: NOT GIVEN

Project Location: NOT GIVEN

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

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(pH)

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

(°F)

REACTIVITY Cyanide CORROSIVITY IGNITABILITY

(ppm)

Sulfide

(ppm)

LAB NO. SAMPLE ID

ANALYSIS DATE:	09/25/02	09/25/02	09/24/02	09/24/02
H7064-1 SDD2192402-SPHAZ	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

est for Coch

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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: 09/27/02 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

	EPA	Sample Result	Method			True Value
TCLP SEMIVOLATILES (ppm)	LIMIT	H7064-1	Blank	QC	% Recov.	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

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

METHODS: EPA SW-846 1311, 8270, 3510

Date

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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

	EPA	Sample Result	Method			True Value
TCLP VOLATILES (ppm)	LIMIT	H7064-1	Blank	QC	%Recov.	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
Chioroform	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	
Dibromofluoromethane	96	
Toluene-d8	116	
Bromofluorobenzene	117	

METHODS: EPA SW 846-8260, 1311

9/26/02 Date

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Cardinal Laboratories Inc.

	2111 Beechwood, Abilene, TX 79603 915-673-7001 Fax 915-673-7020									-		-	, NM 3 93-247												
Company 1	Name Duke Energy							-		Bil	1 T c)							Anal	ysis	Rec	ques	t		
Project Ma	nager Paul Mulkey																								
Address															ļ										
City, State,	Zip														Í	1					[[[
Phone#/Fa	1x# 910-4704																								
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		IP.				MA	TRIX			PF	RESER	V.	SAM	PLING	Ш	H۲.		ШК	l ₽	Ŭ					
LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME											
170641	SDD2192402-SPHAZ	G	1			<u>X</u>					×1		9/24/02	9:30			\times	X	X	X	X				
										 														 	
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Sampler Relinquished:	Deploy/02 Received By:	Fax Results To Pat McCasland 505-394-2601
foller sord	^{Time} //:00	REMARKS:
Relinquished by:	Date Received By: (lab staff)	
	Time BUY est for John	
Delivered by Sampler	Sample Cool & Intact Checked By: Yes No	



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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 Control	939	1020	0.098	0.102	0.107	0.308
True Value QC	1000	1020	0.100	0.102	0.100	0.300
% Recovery	93.9	1000	98.3	102	107	103
Relative Percent 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.

H7135BT.XLS

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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

		Cľ	SO₄	pН
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

*Standard Methods

emist/

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

7-0%

150.1

375.4

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4500-CI'B*

Cardinal Laboratories Inc.

	:hwood, Abilene, T) 001 Fax 915-673-7													, NM 882 393-2476												
Company	and the second	nental Plus	, Inc).						:	•••	Bill	To	4 · · ·					A	NAL	YSIS	REC	QUE	ST		
Project Ma	inager John Go	od					Γ				1														Τ	Γ
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City, State	, Zip Eunice N	lew Mexico	88	231]																			
Phone#/Fa	x# 505-394-	3481 / 505	-394	4-26	01]																			
Project #/C	Owner Duke En	ergy Field	Serv	vices	3		1																			
Project Na	me D-2-1 09	1702					1													-						
Project Loc	cation UL-P Se	ction 11 T1	8S	R38	E		1																			
Sampler N	ame Morris B	urkett			_		1																			
	T T		a	T			MA	TRIX			PR	ESE	RV.	SAMF	PLING]										
LAB I.D.	SAMPLE	l. D .	(G)RAB OR (C)OMP	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (CI)	SULFATES (SO4 [*])	Hd						
47135-1	DD21A101002BH	2)	C	1			X					X		10/16/02	10:15	X	X	X	X	X					1	
-2	DD21A101002SS	NC /	C	1		Γ	X					X		10/16/02	10:20	X	X	X	X	X						
-3	DD21A101002ES	NC S#	C	1		ſ	X					X		10/16/02	10:25	X	X	X	X	X						
-4	DD21A101002NS	NC (C	1			X					X		10/16/02	10:30	X	X	X	X	X					T	
-5	DD21A101002WS	WC)	C	1		Γ	X					X		10/16/02	10:35	X	X	X	X	X						
-6	DD21B101002BH	C	C	1			X					X		10/16/02	10:40	X	X	X	X	X						
<u> </u>	DD21B101002SS\	NC	C	1			X					X		10/16/02	10:45	X	X	X	X	X						
-8	DD21B101002ES	NC	C	1			X					X		10/16/02	10:50	X	X	X	X	X						
-9	DD21B101002NS	NC	C	1			X					X		10/16/02	10:55	X	X	X	X	X						
-10	DD21B101002WS	WC	C	1			X					X		10/16/02	11:00	X	X	X	X	X						
Sampler Relinquished: Sampler Relinquished:									A D acked	By:			les ul ARKS	ts To John G	ood 505-394	-2601										

Cardinal Laboratories Inc.

	hwood, Abilene, TX 79603									-	-		, NM 882 393-2476												
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Phone#/Fa				01						J															
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LAB I.D.	SAMPLE I.D.	В	Ž	3	Į		OIL			Ы М	2				No.	R	DE	ES							
		8	Ę	S	E E		ШQ	ğ	ER:	B	ğ	ЦЦ Ц			X	Σ.	ORI	FAT							
		(G)RAB OR (C)OMP	# CONTAINERS	GROUND WATER	WASTEWATER	soll	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (C1)	SULFATES (SO4")	H						
H7135-11	DD21C101002BHC	C	_			X					X		10/16/02	11:05	X	X	X	X	X						
-12	DD21C101002SSWC	С	1			X					X		10/16/02	11:10	X	X	X	X	X						
-13	DD21C101002ESWC	C	1			X					X		10/16/02	11:15	X	X	X	X	X						
-14	DD21C101002NSWC	С	1			X					X		10/16/02	11:20	X	X	X	X	X						
-15	DD21C101002WSWC	С	1			X					X		10/16/02	11:25	X	X	X	X	X						
				Γ																					
-16	DDZIDIHOZBG	G	1			X					X		10/16/02	11:30			Х	X	Х						
			•••																						
Sampler Relinqui	Breen MART Time 11:30	Rece	alved	BY:	4 J	L		l	7		Fax F REM		its To John G S:	ood 505-394	-2601	1									
Relinquished by:		Rece	for	By: (#	ab sta	m) (Ū.	Ĵ	0																
Delivered by	John Good, EPI Sampk Yea		_	act	J		Ch	ecked	By:																



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

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

Receiving Date: 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		780	797	0.092	0.101	0.110	0.318
True Value		800	800	0.100	0.100	0.100	0.300
% Recove		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.

18/02

Date

H7138BT.XLS

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

		Cľ	SO₄	pН
LAB NUMB	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
Quality Con	trol	970	49.87	6.94
True Value		1000	50.00	7.00
% Recovery	/	97.0	99.7	99.1
	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.

10-18-02

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Cardinal Laboratories Inc.

	hwood, Abilene, TX													, NM 882												
	001 Fax 915-673-7													393-2476												
Company I		nental Plus,	Inc					n siya in	(#•`	in the second	1.64	Bill	То	e satisfied and the for	ters (See) es				A	NAL	YSIS	REC	UES	3T		
Project Ma											1														Т	
Address	P.O. BO									/		E	PI				l		l							
City, State,	Zip Eunice N	lew Mexico	882	231										J					[
Phone#/Fa	x# 505-394-	3481 / 505	-394	4-26	01						•															
Project #/C	wner Duke En	ergy Field S	Serv	vices																		11				
Project Na	me D-2-1 09	1702																								
Project Loc	cation UL-P Se	ction 11 T1	8S	R38	E																					
Sampler N	ame Morris Bi	urkett										_														
			a					TRIX			PR	E8E	RV.	SAMF	PLING]										
LAB I.D.	SAMPLE	I.D.	(G)RAB OR (C)OMP	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (C1)	SULFATES (SO4)	Hq						
H7138-1	DD21101702FPN		С	1			X					X		10/17/02	10:15	X	X	X	X	X					╈	
	DD21101702FPS		С	1			X					X		10/17/02	10:20	X	X	X	X						T	
- 3	DD21101702POO	L	C	1			X					X		10/17/02	10:25	X	X	X	X	X				-	T	
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Sampler Relinqui Mauri Relinquished by:	Sumal	Date Time Date 10 17 - 0		bevie bevie	-	ib sta	10 .				۲	Fax REM		ults To Jo ::	hn Good	505-	394-	2601								
Delivered by:		178;45 Semple	- <u> </u> -	e Inti	LY Ict /	<u></u>	1		cked	By:		- -														
		Yes		N	<u>ه</u> ر																					



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

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

Receiving Date: 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

LAB NUMBER

SAMPLE ID

(mg/Kg)

SO₄

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 Perce	nt Difference	1.3
ETHOD: 600/4-		375.4

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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

CL

LAB NUMBER	SAMPLE ID	(mg/Kg)
H7195-1	SDD21110802ABHC-13	144
H7195-2	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 Percent	1.0	
METHOD: Standar	4500-CIB	

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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

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)
ANALYSIS DAT	E:	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 Control		795	782
True Value QC		800	800
% Recovery		98.4	97.8
Relative Percer	t Difference	8.2	0.8

METHOD: SW-846 8015 M

et A Coshi

H7195t

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of 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 505-393-2326 F	l, Hobbs, NM 88240 ax 505-393-2476)	,	9				2111 Beechwood, Abilene, TX 79603 915-673-7001 Fax 915-673-7020 Bill To ANALYSIS REQUEST																			
Company Name	Environm	ental Plus	, Inc).			(÷	¢₽∧ r		25.8%	37 5 4	Bil	To	and the second second	的行動使用的。	18:2	12000	<u>8</u> 482	AN/	ALY	′SI 8	RE	QUI	E S T	"学校"为	WY HER	a and the second se
Project Manager	John Goo	bd								-																	
Address	P.O. BOX	(1558							64.04		1 5.4	1				ł											
City, State, Zip	Eunice N	ew Mexico	882	231				<				E				ļ											
Phone#/Fax#	505-394-3	3481 / 505	-394	-26	01					V																	
Project #/Owner	Duke Ene	ergy Field S	Serv	ice	5											l											
Project Name	D-2-1 091	1702		-																							
Project Location	UL-P Sec	tion 11 T1	8S	R38	Ε																						
Sampler Name	John Goo	d														}											
							MA	TRIX			PR	ESE	RV.	SAMF	PLING												
LAB I.D.	SAMPLE I		(G)RAB OR (C)OMP.	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (CI)	SULFATES (SO ²)	Hq							
	SDD21110802ABH	IC-13	C	1			X					X		7-Nov	13:00			X									
-2	SDD21110802BBH	IC-12	C	1			X					X		7-Nov	13:05			X									
-3	SDD21110802BSS	SWC	C	1			X					X		7-Nov	13:10			X	X								
	SDD21110802BNS		C	1			X					X		7-Nov	13:15			X									
	SDD21110802BES		C	1			X					X		7-Nov	13:20			X	X								
	SDD21110802BW		С	1			X					X		7-Nov	13:25			X									
	SDD21110802CBH		С	1			X					X		7-Nov	13:30		X	X									
	SDD21110802CSS		C	1			X				ļ	X		7-Nov	13:35		X		X								
	SDD21110802CNS		С	1			X					X		7-Nov	13:40		X		_	_							
	SDD21110802CES		С	1			X					X		7-Nov	13:45		X	•	X			_	_				
-11	SDD21110802CW	SWC	С	1			X		<u> </u>	Ļ	<u> </u>	X		7-Nov	13:50	 	X										
Sampler Relinquished:	Arod	^{Бину} 1- <u>7-02-</u> ^{Плу} 16:20 ^{Пину} 16:20 Пини 11-600- Пини	Rece	ived	By:	ab ste		b //	<u>ب</u>		_	Fax	_	uits To Jo			_			s _i si			44 P				
Delivered by:		Sample Yes	ofor	8 int		f		Chi Chi	ecked	1 By:																	

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			Fi	nal C-1	41 Forn	n			
District I State of New Mexico								Form C-141	
1625 N. French	Dr., Hobbs, N	M 88240	Energy				Revised N	March 17, 1999	
	1301 W. Grand Avenue, Artesia, NM 88210								
District III					rvation Div		Submit 2 Copies		
1000 Rio Brazo	s Road, Aztec,	NM 87410			h St. Franci			e in accordance	
District IV	nois Dr. Santa	E. N.M. 97505		Santa I	Fe, NM 875	05	with Ru	le 116 on back side of form	
1220 S. St. Frag	icis Di., Salita		noso Noti	fication	and Corr	ective Action		SIGE OF IOTH	
	(DPERATO				□ Initial Report	☑ Final Report		
Name of Con					Contact				
Duke Energy	Field Servi	ces			Paul Mulkey		ar		
Address	~	** • • • • •			Telephone N				
		vy, Hobbs, N	M 88240		505-397-571	-			
Facility Name	e				Facility Type				
D-2-1 Line		<u> </u>	<u> </u>		Natural Gas	Pipenne			
Surface Own	er			Mineral Own	ner		Lease No.		
VMJ, Inc. (ernon M. Jo	ones)		NA			NA		
		·	LC	CATION	OF RELEA	SE	•		
Unit Letter	Section	Township	Range	Feet from	Feet from	Longitude	Latitude	County:	
Р	11	18S	38E	South Line	West Line	W103:06:45.38	N32:45:22.91	Lea	
				550	4612			1	
Type of Rele		· · · · · · · · ·	N	ATURE	DF RELEAS Volume of R		Volume Recovered		
		ted liquid con	nonents		>15		0 bbl		
Source of Re		icu nquiu con	пропения			ur of Occurrence	Date and Hour of Discovery		
Steel Natura	l Gas Pipeli	ne			Unknown 09/17/02 AM				
Was Immedia					If YES, To V	Vhom?			
	□ Yes	🗹 No	□ Not Re	equired	NA Date and Hor				
By Whom? NA					NA	ur			
Was a Water	course Reach	ned?			If YES, Volume Impacting the Watercourse.				
		□ Yes	☑ No		NA				
If a Watercou NA	urse was Impa	acted, Describ	e Fully.*						
Describe Ca	ise of Problem	n and Remedi	al Action Tak	en *					
					itual replacen	nent planned.			
		<i>·</i> · · ·	,	1 /	-	r			
		nd Cleanup Ac							
~9600-ft ² sur	~9600-ft ² surface area affected (3 releases + flowpath). Remediation documentation attached.								
regulations all on the er	I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their								
operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.									
Signature:	Part	IT.	lking			OIL CONSERVA	ATION DIVISION		
Printed Name	e:	Paul Mulkey			Approved by	District Supervisor:			
Title:	Constr	uction & Mai	ntenance Su	pervisor	Approval Da	ite:	Expiration Date:		
Date:	12/3/02	Phone:	505-39	07-5716	Conditions o	f Approval:		Attached .	
Attach Addit	ional Sheets 1	If Necessary							

		Incident Date and							
Fields	ervices	09/17/02 AM	NA						
SITE: D-2-1 Line			Assigned Site Reference	ce #: DEFS D-2-1 091702					
Company:		gy Field Services							
Street Address:		t Carlsbad Hwy, Hol							
Mailing Address: 11525 West Carlsbad Hwy, Hobbs, NM 88240									
City, State, Zip:									
Representative:	Paul Mulke	ey							
Representative Telephor	ne: 505-397-57	´16							
Felephone:									
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-14	i within 15 days (Also ap	plies to unauthorized releases	s of 50-500 mcf Natural Gas)					
eak, Spill, or Pit (LSP)	Name:	DEFS D-2-1 091702	the it white						
Source of contamination	1:	Steel Natural Gas P	ipeline						
and Owner, i.e., BLM,	ST, Fee, Other:	VMJ, Inc. (Vernon M	I.						
_SP Dimensions:		(see Figure 3 attach	ed)	· · · · · · · · · · · · · · · · · · ·					
_SP Area:		9600 -ft ²	1 1 1						
_ocation of Reference P	oint (RP):								
_ocation distance and c	lirection from RP:								
_atitude:	· · · · · · · · · · · · · · · · · · ·	N32:45:22.91							
_ongitude:		W103:06:45.38							
Elevation above mean s	ea level:	3628 -ft amsl							
Feet from South Section	n Line:	550	nder of disease						
Feet from West Section Line: 4612									
Location - Unit or 1/4 1		P S	E 1/4 of SE	1/4					
Location - Section:		11							
Location - Township: 18S									
Location - Range:	· . · · · ·	38E							
Surface water body with	in 1000' radius of Si								
Surface water body with			<u> </u>						
Domestic water wells w									
Domestic water wells w		i	· · · · · · · · · · · · · · · · · · ·						
Agricultural water wells									
Agricultural water wells			· · · · · · · · · · · · · · · · · · ·						
Public water supply wel			······································	· · · · · · · · · · · · · · · · · · ·					
Public water supply we			<u></u>						
Depth (ft) from land surf			<u> </u>						
Depth (it) ion land sun Depth (it) of contaminat		14		· · · · · · · · · · · · · · · · · · ·					
Depth (ft) to ground wat 1. Ground			Protection Area	2 Distance to Surface Mater Pod					
				3. Distance to Surface Water Body					
If Depth to GW <50 feet	· · · · · · · · · · · · · · · · · · ·		source, or, <200' from	<200 horizontal feet: 20 points					
If Depth to GW 50 to 99			ter source: 20 points	200-100 horizontal feet: 10 points					
If Depth to GW >100 fe	et: U points		00' from water source, or, >200' from >1000 horizontal feet: 0 points e domestic water source: 0 points >1000 horizontal feet: 0 points						
Ground water Score:	10	Wellhead Protection	Area Score: 0	Surface Water Score: 0					
	Site Rank (1+2+3) = 10								
Site Rank (1+2+3) =			and Acceptable Concer	ntrations					
Site Rank (1+2+3) =	Total S	ite kanking Score							
S <i>ite Rank (1+2+3) =</i> Parameter	Total S 20 or >		10	0					
		ite Kanking Score							
Parameter	20 or >		10	0					

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

1. RCRA Exempt 🖾 Non-Exempt 🗋	6. Generator Duke Energy Field Services
Verbal Approval Received: Yes 🖾 No 🗌	5. Originating Site D-2-1 Line (091702)
2. Management Facility Destination Environmental Plus, Inc. Landfarm #NM-01-0013	6. Transporter Environmental Plus, Inc.
3. Address of Facility Operator 2100 Avenue O, P.O. Box 1558, Eunice, New Mexico 88231	8. State New Mexico
7. Location of Material (Street Address or ULSTR) UL-P Section 11 T18S R38E	

9. Circle One:

A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.

B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL:

Contaminated Soil - Natural Gas Line leak

ed by the operator at the end of the haul) _	<u>1900</u> yd ³
TITLE: EPI Environmental Consultant	DATE: <u>Sept</u>
TITLE:	DATE:
TITLE:	DATE:
	TITLE: EPI Environmental Consultant

ENVIRONMENTAL PLUS, INC.

Environmental Services & Land Farm

PERMIT # NM-01-0013

CERTIFICATE OF WASTE STATUS

"RCRA EXEMPT WASTE"

COMPANY	Y: DUKE ENERGY FI	ELD SERVICES		
ORIGIN:	UL or 1/42: P	SECTION: 11	TOWNSHIP: 185	RANGE: 38E
SOURCE	DESCRIPTION (PIPEL)	INE, LEASE, BATTE	RY, FLOWLINE, ETC.)	PIPELINE
8" D-2-1	NATURAL GAS PIPEL	INE		

"As a condition of acceptance for disposal, I hereby certify that this waste is an <u>exempt</u> 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."

Ι,	PAUI	L MULKEY	,THE UNDERSIGNED AGENT					
FOR	DUKE ENER	GY FIELD SERVICES	, HEREBY CERTIFY THAT,					
BASED ON PI	BASED ON PERSONAL KNOWLEDGE, THE ABOVE STATEMENT IS TRUE AND CORRECT							
	Name	PAUL MULKEY						
	TITLE	MAINTENANCE & CONSTRUCTION SUPERVISOR						
	ADDRESS	11525 WEST CAR	11525 WEST CARLSBAD HIGHWAY					
		HOBBS, NEW ME	XICO 88240					
		pom	lky					
	SIGNATURE	and Illa	eng					
	DATE	SEPTEMBER 24, 2	2002					