PC,120106



ENVIRONMENTAL PLUS, INC. Micro-Blaze Missoffices Odd STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

April 6, 2004

Mr. Larry Johnson Environmental Engineer New Mexico Oil Conservation Division 1625 North French Hobbs, New Mexico 88240

Subject: Duke Energy Field Services Initial C-141

Re: C-Extension #1, #130001 UL-F, SE¹/4 of the NW¹/4 of Section 30 T20S R37E Latitude N 32° 32' 43.70" and Longitude W 103° 17' 38.69" Landowner: State of New Mexico

Dear Mr. Larry Johnson,

Environmental Plus, Inc. (EPI), on behalf of Mr. Paul Mulkey, Maintenance Construction Supervisor, Duke Energy Field Services, submits the attached New Mexico Oil Conservation Division (NMOCD) form C-141 for the above referenced leak site located on land owned by the State of New Mexico, approximately ~6 miles southwest of Monument, New Mexico. The New Mexico Office of the State Engineer records indicate an average area water level of approximately 35 feet below the ground surface. The attached site information and metrics form ranks the site in accordance with the NMOCD Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993) (Guidelines).

Duke Energy Field Services proposes to remediate the site consistent with the Guidelines and, if necessary, develop and submit a site specific remediation plan for NMOCD approval to address issues identified during delineation of the vertical and horizontal extents of contamination of the Constituents of Concern (CoCs) i.e., total petroleum hydrocarbon EPA method 8015m (TPH^{8015m}), benzene, and BTEX, i.e., the mass sum of benzene, toluene, ethylbenzene, and xylenes. Soil samples will also be analyzed for the presence of chlorides to

Le-229153 acility- FPACO602034381 ncitent- n PACO602034497 6. O plication= pPAC 0603150436

••• EUNICE, NEW MEXICO 88231 FAX 505•394•2601



ENVIRONMENTAL PLUS, INC. Micro-Blaze Aliso Ela

STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

achieve chloride concentrations in the soil of less than 250 milligrams/kilogram (mg/Kg). The contaminated soil is exempt from RCRA 40 CFR Part 261.

Should you have any questions or concerns, please call Mr. Ben Miller or myself at the office or at 505.390.0288 and 505.390.7306, respectively or Mr. Paul Mulkey at 505.397.5716. All official communication should be addressed to:

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

Sincerely,

ENVIRONMENTAL PLUS, INC.

Iain Olness, P.G. Hydrogeologist

cc: Paul Mulkey, Duke Energy Field Services
Lynn Ward, Duke Energy Field Services
Steve Weathers, Duke Energy Field Services
Ben Miller, EPI Vice President and General Manager, w/o enclosure
Sherry Miller, EPI President, w/o enclosure
file

Duke Energy. Site Inform Field Services Met		Inciden	it Date: @ 8:00 AM	NMOCD Noti 4-5-04 @ 4:4:			
SITE: C-Extension #1	rics		<u> </u>				
SITE: C-Extension #1 Assigned Site Reference #: 130001 Company: Duke Energy Field Services							
Street Address:							
Mailing Address: 11525 West Ca	rlebad Highy		••••••				
City, State, Zip: Hobbs, New M							
Representative: Paul Mulkey	IEXICO 88240						
	397.5716						
	597.5710						
Telephone:	1.1.1.		D	1(11) 1001	11		
Fluid volume released (bbls): 180		Duorhalluu		ered (bbls): 120 l ubmit form C-141 wit			
~23 0018				00 mcf Natural Gas)	inn 15 days.		
5-25 bbls: Submit fo					50-500 mcf Natural Gas)		
Leak, Spill, or Pit (LSP) Name:			• •				
Source of contamination: 16" Stee				• • • • • • • • • • • • • • • • • • • •			
Land Owner, i.e., BLM, ST, Fee, 0		of New Me	exico				
LSP Dimensions 1190' x 171'							
LSP Area: 57,998 sqft ft	2				······		
Location of Reference Point (RP)					- 46 tanya a ta		
Location distance and direction from	m RP			<u> </u>	· · · · · · · · · · · · · · · · · · ·		
Latitude: $32^{\circ} 32' 43.70"N$,		
Longitude: 103 ⁰ 17' 38.69"W							
Elevation above mean sea level:	3,535'amls						
	3,335 amis						
Feet from South Section Line							
Feet from West Section Line			** ** *	-	the second s		
Location- Unit or ¹ / ₄ ¹ / ₄ : SE ¹ / ₄ of th	$10 \text{ NW} \frac{1}{4}$		Unit Letter:	F	······································		
Location- Section: 30					······		
Location- Township: T20S							
Location- Range: R37E					10-14		
					· • • • • • • • • • • • • • • • • • • •		
Surface water body within 1000 '							
Domestic water wells within 1000							
Domestic water wells within 1000							
Agricultural water wells within 10			e				
Agricultural water wells within 1000' radius of site:							
Public water supply wells within 1000' radius of site: none							
Depth from land surface to ground water (DG) ~35'bgs							
Depth of contamination $(DC) - ?$							
Depth to ground water $(DG - DC = DtGW) - ?$							
1. Ground Water			lhead Protecti	on Area	3. Distance to Surface Water Body		
If Depth to GW <50 feet: 20 point.	s If <			or;<200' from	<200 horizontal feet: 20 points		
If Depth to GW 50 to 99 feet: 10 p			tic water sourc		200-100 horizontal feet: <i>10 points</i>		
······	If						
If Depth to GW >100 feet: 0 point		If >1000' from water source, or; >200' from private domestic water source: 0 points			>1000 horizontal feet: 0 points		
		Vellhead Protection Area Score= 0			Surface Water Score= 0		
Site Rank $(1+2+3) = 20$							
Total Site Ranking Score and Acceptable Concentrations							
	10 ppm		10 ppm		10 ppm		
	50 ppm		50 ppm		50 ppm		
100 ppm field VOC headspace measurement may be substituted for lab analysis							

•

•

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141 Revised March 17, 1999

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

Release Notification and Corrective Action

OPERATOR	🛛 Initial Report 🗌 Final Report			
Name of Company: Duke Energy Field Services	Contact: Paul Mulkey			
Address	Telephone No.			
11525 West Carlsbad Highway Hobbs, New Mexico 88240	505.397.5716			
Facility Name	Facility Type			
C-Extension #1 #130001	16" Steel Pipeline			
Surface Owner: State of New Mexico	Mineral Owner Lease No.			

LOCATION OF RELEASE Unit Letter Range Feet from the North/South Line Feet from the East/West Line Section Township County: Lea Lat. 32⁰ 32' 43.70"N F T205 **R37E** 30 Lon. 103⁰ 17' 38.69"W

Latitude: 👘 32 32' 43.70"N 103 17' 38.69"W Longitude: NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered				
Natural Gas Pipeline Fluids	180 bbls barrels	120 bbls barrels				
Source of Release	Date and Hour of Occurrence	Date and Hour of Discovery				
16" Steel Pipeline	4-5-04 @ 8:00 AM	4-5-04 @ 10:00 AM				
Was Immediate Notice Given?	If YES, To Whom?					
🛛 Yes 🔲 No 🗍 Not Required	Gary WInk					
By Whom?	Date and Hour					
Lynn Ward, Duke	4-5-04 @ 4:45 PM					
Was a Watercourse Reached? 🔲 Yes 🛛 No	If YES, Volume Impacting the Wate	If YES, Volume Impacting the Watercourse.				
	NA					
If a Watercourse was Impacted, Describe Fully.* NA	denoment in the second s					
Describe Cause of Problem and Remedial Action Taken.* 16" Steel Pipeline Pipe repair clamp installed.						
Describe Area Affected and Cleanup Action Taken.* 57,998 sqft 1190' x 171': Soil contaminated above the NMOCD Remedial Guidelines will be disposed of at an approved facility or remediated on site. Remedial Goals: TPH 8015m = 100 mg/Kg, Benzene = 10 mg/Kg, and BTEX, i.e., the mass sum of Benzene, Ethyl Benzene, Toluene, and Xylenes = 50 mg/Kg.						
I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release no public health or the environment. The acceptance of a C-141 report by the should their operations have failed to adequately investigate and remediate health or the environment. In addition, NMOCD acceptance of a C-141 reporter federal, state, or local laws and/or regulations.	tifications and perform corrective action NMOCD marked as "Final Report" do contamination that pose a threat to gro	ons for releases which may endanger bes not relieve the operator of liability bund water, surface water, human				
Signature:	OIL CONSERVATION DIVISION					
Printed Name: Paul Mulkey	Approved by District Supervis	or:				
E-mail Address: pdmulkey@duke-energy.com	Approval Date:	Expiration Date:				
Title: Maintenance Construction Supervisor	Conditions of Approval:	Attached				

Date: April 6, 2004

* Attach Additional Sheets If Necessary



Phone: 505.397.5716









West pooling area, looking south. The release point is near the piping seen in the background.



North flow path along access road, looking east from the west pooling.



Central pooling area, looking south.



South flow path looking west towards the release point.



End of north flow path, looking west.



North flow path on north side of service road, looking west.

2100 Avenue O P.O. Box 1558 Eunice, New Mexico 88231 TEL: 505.394.3481 FAX: 505.394.2601

ENVIRONMENTAL PLUS, INC.





Micro-Blaze

To:	Cody Morrow NMSLO-F	Right of Way Manager	From:	lain Olness	
Fax:	505.827.5711		Pages:	4	
Phone:	505.827.5729		Date:	4/7/2004	
Re:	Right of entry request		CC:	Paul Mulkey Maintenance Construction Supervisor	
	ent 🗌 For Review	Please Comment	Please Re	ply 🗌 Please Recycle	

Dear Mr. Morrow,

Environmental Plus, Inc. (EPI), on behalf of Paul Mulkey, Maintenance Construction Supervisor, Duke Energy Field Services, submits this request for a "Right of Entry Permit" to address a Natural Gas Pipeline Fluids release that occurred on land owned by the State of New Mexico and managed by the New Mexico State Land Commissioner. The project information is listed below.

- Client: Duke Energy Field Services, 11525 West Carlsbad Highway, Hobbs, New Mexico 88240
- Site Name: C-Extension #1 130001
- Legal Description: UL- F, SE¼ of the NW¼ of Section 30 T20S R37E
- Latitude N 32° 32' 43.70" and Longitude W 103° 17' 38.69"
- Affected Area: 57,998 sqft ~1190' x 171'
- Purpose:
 - 1. To delineate the extents of Natural Gas Pipeline Fluids by excavating or soil boring, and possibly, the installation of monitor or recovery wells as appropriate for delineation of ground water contamination.
 - 2. To remediate the contaminated soil in a manner acceptable to the New Mexico Oil Conservation Division and the New Mexico State Land Office. Remediation alternatives may include disposal, blending, or landfarming depending on location. Soil may also be mechanically shredded and aerated to separate rock and soil and promote volatization. MicroBlaze spill control (MSDS sent previously) may also be applied to reduce vapor emissions and promote biological attenuation. Delineation and remediation work plans will be implemented only after agency approval and consensus.
- Duration: 6 months for current surface use.
- Attachments: USGS Map and site map

Please call if you have any questions or more information is needed. I would request also that the "Right of Entry Permit" be <u>faxed</u> to me at 505.394.2601.

Sincerely,

ENVIRONMENTAL PLUS, INC.

Iain Olness, PG Hydrogeologist



5

Duke Energy Field Services



32° 32,730

mm 11

Duke Energy Field Services



C-Extension #1 130001

Duke Energy. Field Services

£.

Johnson, Larry

lain Olness [iolness@hotmail.com] From: Thursday, April 29, 2004 5:30 PM Sent: lwiohnson@state.nm.us To: Duke C-Extension #1 and G28-4 Subject:

Dear Mr. Johnson:

EPI was recently retained to conduct remediation activities at two separate Duke Energy Field Services (DEFS) sites. The first of these sites, the C-Extension #1, consisted of a release of approximately 180 barrels of natural gas pipeline fluids (NGPF), of which 180 barrels were recovered. The release occurred on April 5, 2004, after the area had received significant amounts or rainfall. Due to the saturated conditions at the time of the release, the NGPF flowed horizontally and did not migrate vertically.

Approximately 2,600 cubic yards of soil were excavated from the source area and flow paths associated with the release. Composite samples were collected from the flow paths and source area and submitted for quantification of benzene, toluene, ethylbenzene and total xylenes (BTEX), total petroleum hydrocarbons as gasoline (TPH-gasoline), total petroleum hydrocarbons as diesel (TPH-diesel) and chlorides. Analytical results indicated that benzene, BTEX and Total TPH were below the remedial action levels for the site (i.e., <10 ppm for benzene, < 50 ppm for BTEX, and <1,000 ppm for TPH).

Chloride concentrations along the flow paths were <250 ppm. The only area where chloride concentrations were >250 ppm was the release area. Chloride concentrations in this area ranged from 336 ppm to 592 ppm from 4 to 5 feet below ground surface (BGS). A soil boring was completed at the site to delineate the vertical extent of contamination and determine the depth to groundwater. Groundwater was encountered at approximately 57 feet BGS.

Based on this information, it is suggested that the chloride concentrations encountered in the release area will not adversely impact groundwater beneath the site and it is recommended that the excavation be backfilled with clean soil. Please let me know at your earliest convenience if you concur with this recommendation.

Jert extract The second site, the G28-4, occurred on April 14, 2004. Approximately 770 cubic yards of soil have been excavated at this site and transported to an approved land farm. Samples were collected from depths of 5 and 10 feet BGS and submitted for quantification of BTEX, TPH-gasoline, TPH-diesel and chlorides. Analytical results for these samples indicated benzene concentrations ranging from <0.005 to 38.5 ppm, BTEX concentrations ranging from <0.03 to 1,184.6 ppm, TPH-gasoline concentrations ranging from <10 to 23,400 ppm, TPH-diesel concentrations ranging from 97.8 to 35,200 ppm and chloride concentrations ranging from 48 to 112 ppm. Based on the New Mexico Office of the State Engineers website, groundwater occurs in this area at an average depth of approximately 160 feet BGS.

Based on this information, EPI was considering the installation of a clay barrier at a depth of approximately 10 feet BGS and subsequent backfilling with native soil. Please let me know at your earliest convenience if you concur with this recommendation.

Should you have any questions, please feel free to contact me at (505) 394-3481.

Sincerely,

ENVIRONMENTAL PLUS, INC.

Iain Olness, P.G.

