



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.

Director

Oil Conservation Division

January 10, 2006

Lynn Ward

Duke Energy Field Services

10 Desta Dr. Ste 400W

Midland, TX 79705

lwward@duke-energy.com

Re: Closure Approval: B-Line - #130013
Site Reference UL-N, Sec-26 T-17S R-35E
Initial Notification Date: September 6, 2004
Closure Request Dated: December 14, 2005

Dear Ms Ward,

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**. 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,

A handwritten signature in cursive script that reads "L. Johnson".

Larry Johnson - Environmental Engineer

Cc: Chris Williams - District I Supervisor
Roger Anderson - Environmental Bureau
Paul Sheeley - Environmental Engineer

LETTER OF TRANSMITTAL

ENVIRONMENTAL
PLUS, INC.



Date: December 14, 2005
To: **Larry Johnson**
Company Name: New Mexico Oil Conservation Division – Hobbs
Address: 1625 French Drive
City / State / Zip: Hobbs, New Mexico 88240
From: Jason Stegemoller
CC: Cody Morrow – New Mexico State Land Office – Sante Fe
Steve Weathers, DEFS – Denver; Lynn Ward, DEFS – Midland;
Ronnie Gilchrest, DEFS – Hobbs; Mark Owens, DEFS – Hobbs
Project #: 130013
Project Name: Duke Energy Field Services – B Line
Subject: **Remedial Investigation/Closure Report**

# of originals	# of copies	Description
	1	Copy of the Duke Energy Field Services – B Line Remedial Investigation/Closure Report

Remarks

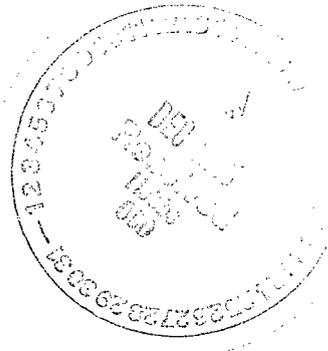
Dear Mr. Johnson:

Enclosed is a copy of the Remedial Investigation/Closure Report for the above-referenced site. A copy of the Report was sent to the New Mexico State Land Office and appropriate Duke Energy personnel. Should you have any questions or concerns, please feel free to contact Iain Olness or me at (505) 394-3481.

Sincerely,

Environmental Plus, Inc.

Jason Stegemoller



P. O. Box 1558
Eunice, NM 88240
(505) 394-3481
Fax: (505) 394-2601



FINAL APPROVAL
1.10.06
[Signature]



REMEDIAL INVESTIGATION/ CLOSURE REPORT

B-LINE RELEASE SITE

DEFS REF: 130013

UL-N (SE¹/₄ OF THE SW¹/₄) OF SECTION 26, T17S, R35E

~4.37 MILES EAST OF BUCKEYE

LEA COUNTY, NEW MEXICO

LATITUDE: N 32° 47' 57.0"

LONGITUDE: W 103° 25' 49.0"

DECEMBER 2005

PREPARED BY:

Environmental Plus, Inc.

2100 Avenue O

P.O. Box 1558

Eunice, NM 88231

Phone: (505)394-3481

FAX: (505)394-2601

iolness@envplus.net



Standard of Care

Closure Report

B-Line (Ref. #130013)

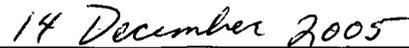
The information provided in this report was collected consistent with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993), the NMOCD Unlined Surface Impoundment Closure Guidelines (February 1993), and the Environmental Plus, Inc. (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.

This report was prepared by:



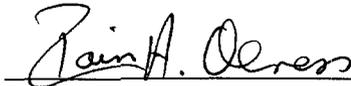
Jason Stegemoller, M.S.

Environmental Scientist



Date

This report was reviewed by:



Iain A. Olness, P.G.

Hydrogeologist



Date

Distribution List

Duke Energy Field Services- B Line (Ref. #130013)

Name	Title	Company or Agency	Mailing Address	e-mail
Larry Johnson	Environmental Engineer	New Mexico Oil Conservation Division- Hobbs	1625 French Drive Hobbs, NM 88240	lwjohnson@state.nm.us
Cody Morrow	Environmental Manager	New Mexico State Land Office-Sante Fe	310 Old Sante Fe Trail P.O. Box 1148 Sante Fe, NM 87504-1148	cmorrow@slo.state.nm.us
Lynn Ward	Environmental Specialist- Western Division	Duke Energy Field Services, LP	10 Desta Drive, Suite 400-W Midland, TX 79705	lcward@duke-energy.com
Mark Owens	Construction Maintenance Supervisor	Duke Energy Field Services, LP	1625 West Marland Blvd. Hobbs, NM 88240	mrowens@duke-energy.com
Ronnie Gilcrest	Field Supervisor	Duke Energy Field Services, LP	1626 West Marland Blvd. Hobbs, NM 88240	rgilcrest@duke-energy.com
Steve Weathers	Environmental Manager	Duke Energy Field Services, LP	370 17th Street, Suite 900 Denver, CO 80202	sweathers@duke-energy.com
File	--	Environmental Plus, Inc.	P.O. Box 1558 Eunice, NM 88231	iolness@envplus.net

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Project Summary

Site Specific:

- ◆ **Company Name:** Duke Energy Field Services
- ◆ **Facility Name:** B-Line
- ◆ **Project Reference** 130013
- ◆ **Company Contacts:** Mark Owens, DEFS-Hobbs, NM and Lynn Ward, DEFS, Midland, TX
- ◆ **Site Location:** WGS84 N32° 47' 57.026"; W103° 25' 49.000"
- ◆ **Legal Description:** Unit Letter N (SE¼ of the SW¼), Section 26, T17S, R35E
- ◆ **General Description:** approximately 4.37-miles east of Buckeye, New Mexico
- ◆ **Elevation:** 3,909-ft amsl **Depth to Ground Water:** ~54-ft
- ◆ **Land Ownership:** State of New Mexico
- ◆ **EPI Personnel:** Project Consultant – Iain Olness
 Site Foreman – Eddie Joe Harper

Release Specific:

- ◆ **Product Released:** Natural Gas Liquids (NGL)
- ◆ **Volume Released:** ≈25 bbl **Volume Recovered:** 20-bbl
- ◆ **Date of Occurrence:** 16 September 2004 **Date of Discovery:** 16 September 2004
- ◆ **Release Source:** 8-inch steel pipeline, operating at 15-20 lbs
- ◆ **Initial Surface Area Affected:** ≈300-ft²

Remediation Specific:

- ◆ **Final Vertical extent of contamination:** 20-ft bgs at maximum; Remaining depth to ground water: >30-ft
- ◆ **Water wells within 1,000-ft:** 0 **Surface water bodies within 1,000-ft:** 0
- ◆ **NMOCD Site Ranking Index:** 20 points
- ◆ **Remedial goals for Soil:** TPH – 100 mg/kg; BTEX – 50 mg/kg; Benzene – 10 mg/kg.
- ◆ **RCRA Waste Classification:** Exempt
- ◆ **Remediation Option Selected:** a) Excavation of contaminated soil above NMOCD remedial goals and transport to landfarm for treatment and blending; b) laboratory analyses to confirm removal of soil impacted above NMOCD remedial thresholds; c) backfill the excavation with blended and clean soil obtained from the surrounding area.
- ◆ **Disposal Facility:** South Monument Land Farm **Volume disposed of:** 324-yd³
- ◆ **Project Completion Date:** 18 October 2004
- ◆ **Additional Commentary:** None

1.0 Introduction & Background

This report addresses the site investigation and remediation of the Duke Energy Field Services (DEFS) B-Line 8-inch natural gas pipeline remediation site. This release site is located in Unit Letter N (SE¼ of the SW¼), Section 26, T17S, R35E, at a latitude of N32° 47' 57.026" and a longitude of W103° 25' 49.000". The site is approximately 4.4-miles east of Buckeye, New Mexico. The property is owned by the State of New Mexico and utilized for livestock grazing (reference *Figures 1 and 2*).

On September 16, 2004, Environmental Plus, Inc. (EPI) was notified by DEFS regarding a recently discovered ~~natural gas and natural gas liquid~~ (NGL) release along the B-Line pipeline. At the time of release the steel pipeline was being replaced with a polyethylene pipeline laid adjacent to the steel line. The Initial C-141 Form submitted to the New Mexico Oil Conservation Division (NMOCD) stated a release of 25 barrels (bbl) of NGL, with 20 bbl recovered. EPI performed GPS surveying, photography and characterization of the site on September 20, 2004. The release site consisted of an approximate 300 square feet (ft²) of visibly affected surface area (reference *Figure 3*).

On September 21, 2004, test trenches were excavated to the north, south, east and west of the point-of-release (POR) to determine extents of NGL impacts. Soil samples were collected 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 for chloride concentrations utilizing a La Motte Chloride Test Kit. Field analytical results indicated vertical extents of NGL impacts at the POR were to 20-feet below ground surface (bgs) and lateral extents of contamination to the north and south of the POR were to a depth of 7-feet bgs (reference *Figure 4*).

Remedial excavation activities at the site consisted of excavating approximately 1,000 cubic yards (yds³) of NGL impacted soil and transporting approximately 324 yds³ to the South Monument Land Farm for treatment (reference *Figure 5*). The remaining impacted soil was blended on site with clean soil purchased from Mr. Giles Lee and with soil obtained from the pipeline right-of-way. On September 23 and 24, and October 5, 2004, soil samples were collected from the excavation and analyzed in the field for the presence of organic vapors utilizing a photoionization detector and for chloride concentrations utilizing La Motte Chloride Test Kit. Field analytical results indicated organic vapor concentrations ranged from 0.0 to 15.2 parts per million (ppm) and chloride concentrations ranged from 100 to 160 milligram/kilogram (mg/Kg). In addition, samples were submitted for laboratory confirmation that NGL impacted soil above NMOCD thresholds had been removed. Analytical results confirmed that NMOCD remedial goals for total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene and total xylenes (BTEX) were achieved (reference *Table 1*). On October 7 through 12, 2004, soil samples were collected from the blended soil and submitted for laboratory analyses. Analytical results indicated that NMOCD remedial thresholds had been achieved.

The excavation phase of the site remediation commenced on September 20, 2004 and was completed with backfilling with blended soil and contouring on October 18, 2004.

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 that “is a flat, gently sloping plain, treeless, and marred only by slight undulations and covered with short prairie grass.”

2.2 Ecological Description

The site is located in the High Plains. Vegetation consists 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 Groundwater

The unconfined groundwater aquifer at this site is projected to be ~~54-ft bgs~~ based on water depth data obtained from the New Mexico State Engineers Office data base (reference *Table 2*). Groundwater 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 (reference *Figure 2*).

2.5 Area Surface Water Features

No surface water bodies exist within 1,000 horizontal feet of the site (reference *Figure 2*).

3.0 NMOCD Site Ranking

Contaminant delineation and remedial work done at this site indicate 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 were determined based on the NMOCD Ranking Criteria as follows:

- ◆ *Depth to Groundwater (i.e., distance from the lower most acceptable concentration to the groundwater);*
- ◆ *Wellhead Protection Area (i.e., distance from fresh water supply wells); and*
- ◆ *Distance to Surface Water Bodies (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. Groundwater	2. Wellhead Protection Area	3. Distance to Surface Water	
Depth to GW <50 feet: 20 points	If <1,000' from water source, or; <200' from private domestic water source: 20 points	<200 horizontal feet: 20 points	
Depth to GW 50 to 99 feet: 10 points		200-1,000 horizontal feet: 10 points	
Depth to GW >100 feet: 0 points	If >1,000' from water source, or; >200' from private domestic water source: 0 points	>1,000 horizontal feet: 0 points	
Site Rank (1+2+3) = 20 + 0 + 0 = 20 points			
Total Site Ranking Score and Acceptable Remedial Goal Concentrations			
Parameter	20 or >	10	0
Benzene¹	10 ppm	10 ppm	10 ppm
BTEX¹	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1,000 ppm	5,000 ppm

¹ 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

On September 21, 2004, test trenches were excavated north, south, east and west of the point-of-release (POR) to determine extents of NGL impacts. The excavation extents of the test trenches from the POR were 35-feet to the north, 58-feet to the south, 67-feet to the east and 45-feet to the west (reference *Figure 4*). Soil samples were collected from the excavation 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 for chloride concentrations utilizing La Motte Chloride Test Kit. Field analytical results indicated that vertical extents of NGL impacts at the POR were to 20-feet below ground surface (bgs).

Excavation activities began after the vertical and lateral extents of hydrocarbon-impacted soil had been delineated. Remedial activities consisted of excavating NGL impacted soil, transporting a portion of the impacted soil to a land treatment facility and blending the remaining portion to below NMOCD remedial thresholds. To confirm removal of hydrocarbon-impacted soil, soil samples were collected from the north and south excavation walls and the excavation floor on September 23 and 24 and October 5, 2004. Samples were collected from the northern wall at the northwest, northeast, and two depths in the center and from the southern wall at the southwest, southeast and two depths in the center (reference *Figure 5*). The excavation floor was sampled on the northern and southern ends and the excavation center. A portion of each sample was placed in a jar, set on ice for transport and submitted to an independent laboratory for analyses of TPH, BTEX constituents, chloride and sulfates. The remaining portion of each sample was analyzed in the field for organic vapor concentrations utilizing an UltraRae PID equipped with a 9.8 eV lamp and chloride utilizing La Motte Chloride Test Kit. Organic vapor concentrations ranged from 0.0 to 15.2 ppm, with an average of 3.9 ppm. Chloride concentrations ranged from 100 to 160 mg/Kg (reference *Table 1* and *Figure 5*).

Analytical results for samples collected from the north wall indicated BTEX constituent concentrations were non-detectable (ND) at or above laboratory method detection limits (MDL). TPH concentrations ranged from non-detectable to 13.0 mg/Kg, chloride concentrations ranged from 48 to 64 mg/Kg and sulfate ranged from <1 to 124 mg/Kg. All hydrocarbon concentrations

from the north wall samples were below NMOCD remedial thresholds (reference *Table 1* and *Figure 5*).

Laboratory results for samples from the south wall indicated BTEX concentrations ranged from ND at or above laboratory MDL to 0.063 mg/Kg. TPH concentrations ranged from ND to 15.4 mg/Kg, chloride concentrations were 64 to 304 mg/Kg, and sulfate concentrations were <1 to 25 mg/Kg. All hydrocarbon concentrations from the south wall samples were below NMOCD remedial thresholds (reference *Table 1* and *Figure 5*).

Analytical results of samples collected from the excavation floor indicated BTEX concentrations were ND at or above laboratory MDL. TPH concentrations ranged from ND to 42.4 mg/Kg, chloride concentrations ranged from 64 to 112 mg/Kg and sulfate concentrations were <1 to 158 mg/Kg. All hydrocarbon concentrations from the excavation floor were below NMOCD remedial thresholds (reference *Table 1* and *Figure 5*).

Soil samples were collected from the stockpiled, NGL impacted soil after blending with clean soil. Samples were collected on October 7, 2004 from the northeast, northwest, southeast and southwest portions of the blended stockpile. Analytical results indicated BTEX and TPH concentrations were non-detectable at or above laboratory MDL. Chloride concentrations ranged from 80 to 320 mg/Kg and sulfate concentrations ranged from 111 to 137 mg/Kg. All hydrocarbon concentrations were below NMOCD remedial thresholds (reference *Table 1*).

On October 12, 2004, composite soil samples were collected from the northeast and southeast portion of the blending stockpiles after further blending with clean soil. A portion of each sample was submitted to an independent laboratory for quantification of chloride concentrations. Laboratory analytical results indicated chloride concentrations ranged from 368 to 480 mg/Kg (reference *Table 1*).

Composite soil samples were collected on October 14 from the northeast portion of the blending stockpile after further blending and submitted for laboratory quantification of chloride concentrations. Laboratory analytical results indicated chloride concentrations were 336 mg/Kg (reference *Table 1*).

On October 15, 2005, composite samples were collected from the northeast portion of the blending stockpile after further blending and submitted for laboratory quantification of chloride concentrations. Laboratory analytical results indicated chloride concentrations were 128 mg/Kg (reference *Table 1*).

5.0 Groundwater Investigation

The projected depth to ground water at this site is \approx 54-ft bgs. Excavation of the site was to a maximum depth of 20-feet bgs. Final field analyses for soil samples collected from the sidewalls and the excavation floor indicated organic vapor concentrations ranged from 0.0 to 15.2 ppm. In addition, laboratory analytical results for samples collected from the sidewalls and base of the excavation indicated hydrocarbon concentrations were below NMOCD remedial thresholds (reference *Table 1*).

Approximately 1,000 yd³ of hydrocarbon-impacted soil were excavated with 324 yd³ transported to the South Monument Land Farm for treatment. The remaining hydrocarbon-impacted soil was blended with clean soil obtained from Mr. Giles Lee and the pipeline right-of-way to below NMOCD remedial thresholds and returned to the excavation. Based on the treatment of impacted soil to below NMOCD remedial threshold and adequate depth to groundwater (>30-feet bgs), there is no need for further groundwater investigation at this site.

6.0 Remediation Process

Remediation of the site commenced on September 20, 2004 and continued through October 18, 2004. Remedial activities at the site consisted of the excavation of approximately 1,000 yd³ of NGL contaminated soil, of which 324 yd³ were transported to the South Monument Land Farm for treatment. The remaining excavated soil was blended to achieve NMOCD remedial thresholds with clean soil purchased from Mr. Giles Lee and soil obtained from the pipeline right-of-way. After laboratory analyses of the excavation sidewall and floor samples and blended soil indicated TPH and BTEX constituent concentrations were below NMOCD remedial thresholds the excavation was backfilled with the blended soil (reference *Table 1* and *Appendix 1*).

7.0 Closure Justification

This report documents successful treatment of impacted soil above the NMOCD remedial thresholds discussed in Section 3.0 above and confirmed via laboratory analyses for this release site. The hydrocarbon-impacted soil was excavated with a portion transported to the South Monument Land Farm for treatment and the remainder blended with clean soil to achieve NMOCD remedial thresholds. Final remedial activities consisted of backfilling the excavation with blended soil, and contouring/grading to allow for 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 and issue a *Site Closure Letter*.

FIGURES

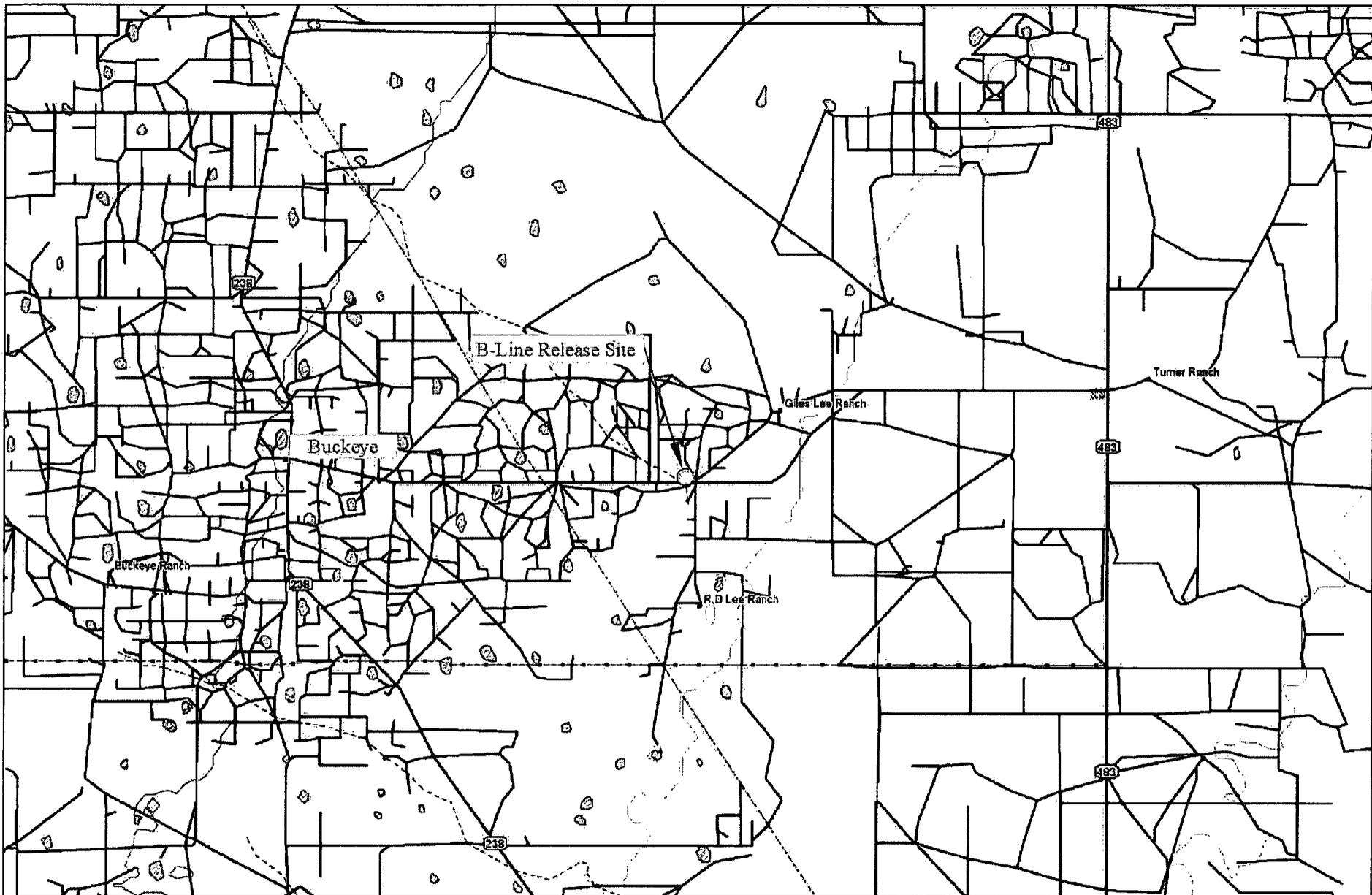
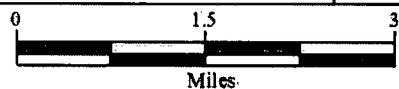


Figure 1
Area Map
 Duke Energy Field Services
 B-Line

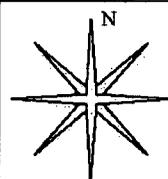
Lea County, New Mexico
 SE 1/4 of the SW 1/4, Sec. 26, T17S, R35E
 N 32° 47' 57.0" W 103° 25' 49.0"
 Elevation: 3,909 feet amsl

DWG By: Iain Olness
 September 2004

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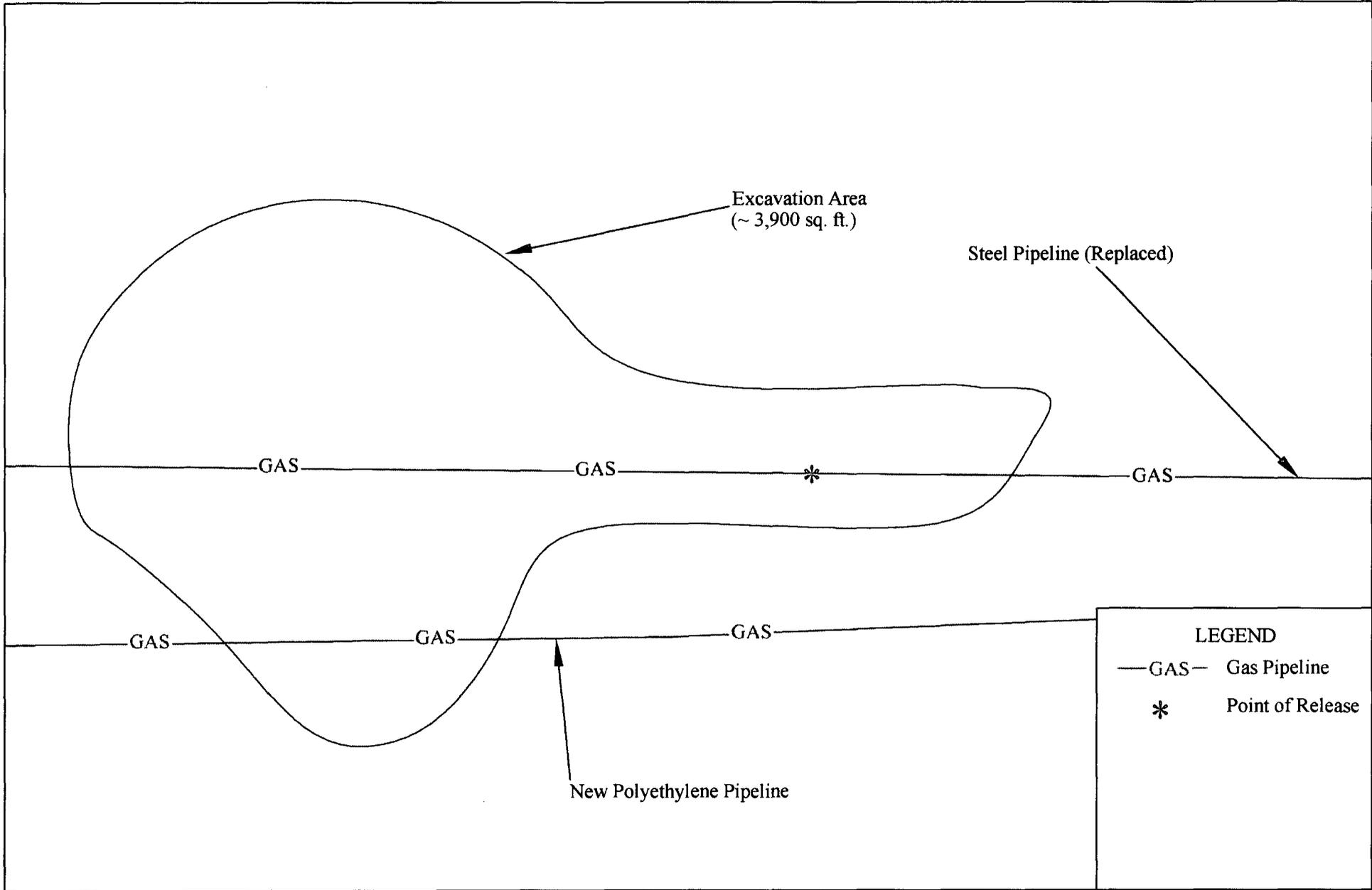
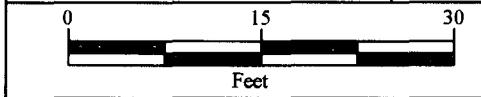


Figure 3
 Site Map
 Duke Energy Field Services
 B-Line

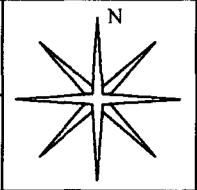
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 SE 1/4 of the SW 1/4, Sec. 26, T17S, R35E
 N 32° 47' 57.0" W 103° 25' 49.0"
 Elevation: 3,909 feet amsl

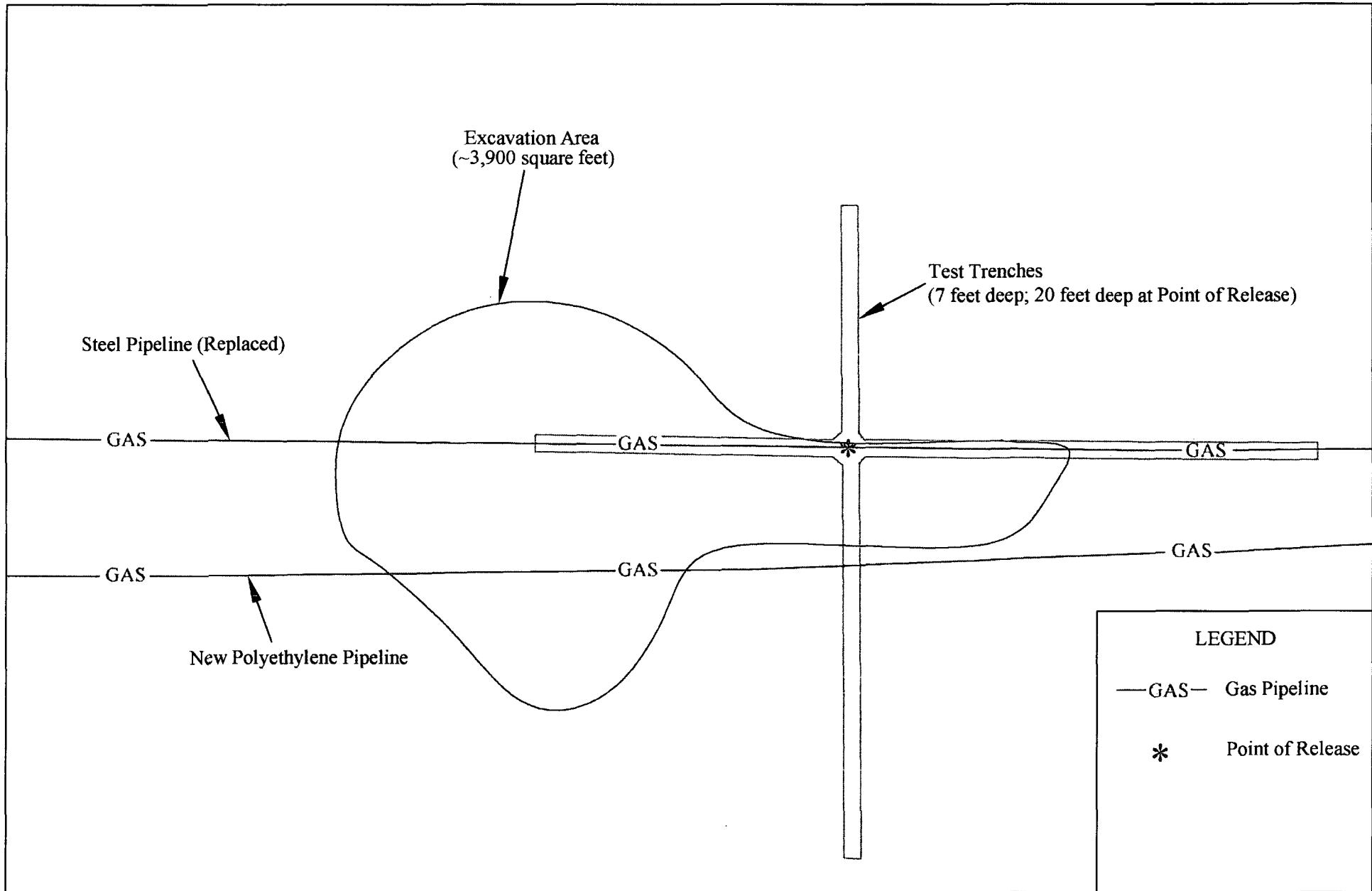
DWG By: Daniel Dominguez
 November 2005

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LEGEND

—GAS— Gas Pipeline

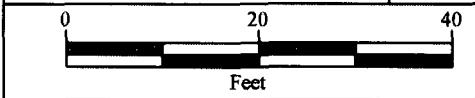
* Point of Release

Figure 4
Test Trench Map
 Duke Energy Field Services
 B-Line

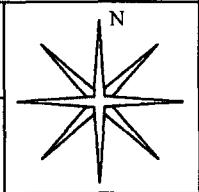
Lea County, New Mexico
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 Elevation: 3,909 feet amsl

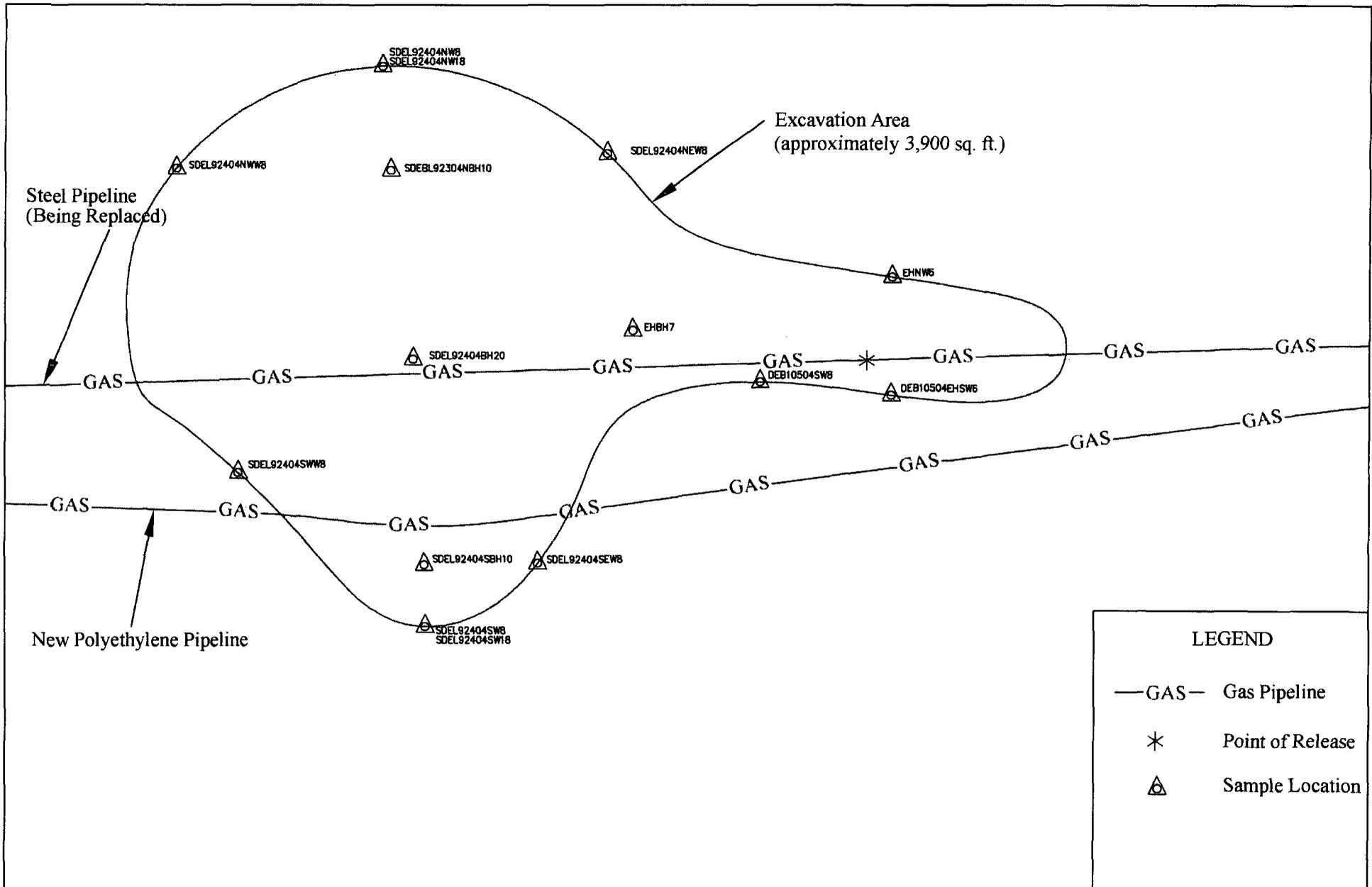
DWG By: Daniel Dominguez
 November 2005

REVISED:



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LEGEND

— GAS — Gas Pipeline

* Point of Release

△ Sample Location

Figure 5
Sample Location Map
Duke Energy Field Services
B-Line

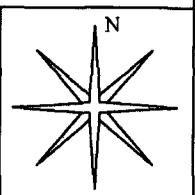
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 N 32° 47' 57.0" W 103° 25' 49.0"
 Elevation: 3,909 feet amsl

DWG By: Iain Olness
 September 2004

0 15 30
 Feet

REVISED:
 November 2005

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 1 of 1



TABLES

TABLE 1

Summary of Excavation Soil Field Analyses and Laboratory Analytical ResultsDuke Energy Field Services B-Line (Ref. #130013)

Soil Sample ID	Depth (feet)	Sample Date	Soil Status	PID Reading (ppm)	Field Chloride (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)	Sulfate (mg/Kg)
SDEBL92304NBH10	10	23-Sep-04	In Situ	NA	NA	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	42.4	42.4	112	97
EHNW6	6	24-Sep-04	In Situ	0.8	NA	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	64	158
EHBH7	7	24-Sep-04	In Situ	8.1	NA	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	64	158
SDEL92404NWW8	8	24-Sep-04	In Situ	0.8	160	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	13.0	13.0	64	106
SDEL92404NW8	8	24-Sep-04	In Situ	0.0	100	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	11.8	11.8	64	<1
SDEL92404NW18	18	24-Sep-04	In Situ	0.3	120	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	11.6	11.6	64	124
SDEL92404NEW8	8	24-Sep-04	In Situ	1.7	160	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	12.6	12.6	48	<1
SDEL92404BH20	20	24-Sep-04	In Situ	0.4	160	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	64	<1
SDEL92404SWW8	8	24-Sep-04	In Situ	1.6	100	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	64	2.08
SDEL92404SW8	8	24-Sep-04	In Situ	9.9	160	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	304	1.64
SDEL92404SW18	18	24-Sep-04	In Situ	0.0	160	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	48	10.8
SDEL92404SBH10	10	24-Sep-04	In Situ	8.9	160	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	15.4	15.4	96	<1
SDEL92404SEW8	8	24-Sep-04	In Situ	15.2	160	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	112	<1
DEBL10504EHSW6	6	05-Oct-04	In Situ	NA	NA	<0.005	0.033	<0.005	0.030	0.063	<10.0	<10.0	<20.0	96	25
DEBL10504SW8	8	05-Oct-04	In Situ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	NA
NWBC	Comp	07-Oct-04	Blended	NA	NA	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	160	123

TABLE 1

Summary of Excavation Soil Field Analyses and Laboratory Analytical Results

Duke Energy Field Services B-Line (Ref. #130013)

Soil Sample ID	Depth (feet)	Sample Date	Soil Status	PID Reading (ppm)	Field Chloride (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)	Sulfate (mg/Kg)
SWBC	Comp	07-Oct-04	Blended	NA	NA	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	80	111
NEBC	Comp	07-Oct-04	Blended	NA	NA	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	320	180
SEBC	Comp	07-Oct-04	Blended	NA	NA	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	368	137
NEBC	Comp	12-Oct-04	Blended	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	480	NA
SEBC	Comp	12-Oct-04	Blended	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	112	NA
NEBC	Comp	14-Oct-04	Blended	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	336	NA
NEBC	Comp	15-Oct-04	Blended	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	128	NA
NMOCD Remedial Thresholds					100		10			50			100	250³	650³

¹ Bolded values are in excess of NMOCD Remediation Thresholds

² NA=Not Analyzed

³ Chloride and sulfate residuals may not be capable of impacting local groundwater above the New Mexico Water Quality Control Commission standards of 250 mg/L and 650 mg/L, respectively.

TABLE 2

WELL / SURFACE DATA REPORT - 09/20/04*

Duke Energy Field Services B Line - (Ref. #130013)

DB	File Nbr	Use	Diversion ^A	Owner	Well Number	Source	Twsp	Rng	Sec q q q	Latitude	Longitude	Start Date	Finish Date	Depth of Well (ft bgs)	Depth to Water (ft bgs)
L	04881	PRO	0	Noble Drilling Corp.	L 04881 APPRO	Shallow	17S	35E	26 4 1	N 32° 48' 7.4"	W 103° 25' 39.96"	22-Apr-62	24-Apr-62	137	50
L	04881 (1)	PRO	0	Phillips Petroleum Company	L 04881 (1)		17S	35E	26 1	N 32° 48' 20.63"	W 103° 26' 10.92"				
L	04951	PRO	0	Noble Drilling Corp.	L 04951	Shallow	17S	35E	26 2 2	N 32° 48' 33.57"	W 103° 25' 24.62"	15-Aug-62	16-Aug-62	137	50
L	01694	PRO	3	Giles Lee	L 01694	Shallow	17S	35E	22 2 2 4	N 32° 49' 13.04"	W 103° 26' 26.47"	15-Dec-52	17-Dec-52	105	48
L	01694 (1)	PRO	0	Sun Oil Company	L 01694 (1)		17S	35E	22 2 2 4	N 32° 49' 13.04"	W 103° 26' 26.47"				
L	10062	PRO	0	Mobil Production, TX & NM	L 10062	Shallow	17S	35E	22 4 2	N 32° 48' 59.96"	W 103° 26' 26.46"	2-Feb-89	2-Feb-89	142	50
L	03742	PRO	3	Zapata Drilling Co.	L 03742		17S	35E	23 4 3	N 32° 48' 46.72"	W 103° 25' 39.95"				
L	05381	PRO	0	Hissom Drilling Company	L 05381	Shallow	17S	35E	23 3 3 3	N 32° 48' 46.83"	W 103° 26' 10.94"	11-May-64	12-May-64	95	45
L	05381 (1)	PRO	0	Hissom Drilling Company	L 05381 (1) EXP		17S	35E	23 3 3 3	N 32° 48' 46.83"	W 103° 26' 10.94"				
L	09901	STK	0	Giles M. Lee	L 09901 EXP		17S	35E	23 3 4	N 32° 48' 46.77"	W 103° 25' 55.44"				
L	04503	PRO	3	Tri Service Drilling Co.	L 04503	Shallow	17S	35E	24 2	N 32° 49' 12.51"	W 103° 24' 37.95"	8-Sep-60	10-Sep-60	90	43
					L 04503 APPRO	Shallow	17S	35E	24 2	N 32° 49' 12.51"	W 103° 24' 37.95"	8-Sep-60	10-Sep-60	90	43
L	10121	PRO	0	Giles M. Lee	L 10121		17S	35E	24 1 3 2	N 32° 48' 59.44"	W 103° 24' 38.01"				
					L 10121 EXP		17S	35E	24 3 1 4	N 32° 48' 59.7"	W 103° 25' 9.28"				
L	10121 (1)	STK	0	Oryx Energy Company	L 10121 (1) EXP		17S	35E	24 3 1 4	N 32° 48' 59.7"	W 103° 25' 9.28"				
L	04875	PRO	0	A. W. Thompson, Inc.	L 04875	Shallow	17S	35E	25 2 1 1	N 32° 48' 33.26"	W 103° 24' 38.04"	12-Apr-62	12-Apr-62	130	71
L	06723	DOM	0	Giles M. Lee	L 06723 EXP		17S	35E	25 1 4 2	N 32° 48' 20.27"	W 103° 24' 53.61"				
L	08124	STK	0	Hondo Drilling Company	L 08124	Shallow	17S	35E	25 4 4 4	N 32° 47' 53.82"	W 103° 24' 22.4"	2-Aug-79	3-Aug-79	125	58
L					L 08124 EXP		17S	35E	25 4 4 4	N 32° 47' 53.82"	W 103° 24' 22.4"				
L	08124 (1)	STK	0	BTA Oil Producers	L 08124 (1) EXP		17S	35E	25 4 4 4	N 32° 47' 53.82"	W 103° 24' 22.4"				
L	08124 (2)	PRO	0	Pioneer Production Corp.	L 08124 (2) EXP		17S	35E	25 4 4 4	N 32° 47' 53.82"	W 103° 24' 22.4"				
L	08124 (3)	PRO	0	BTA Oil Producers	L 08124 (3) EXP		17S	35E	25 4 4 4	N 32° 47' 53.82"	W 103° 24' 22.4"				
L	09727	DOM	0	Giles M. Lee	L 09727 EXP		17S	35E	25 1 4 2	N 32° 48' 20.27"	W 103° 24' 53.61"				
L	04859	PRO	3	Noble Drilling Corp.	L 04859	Shallow	17S	35E	27 4 4 4	N 32° 47' 54.48"	W 103° 26' 26.41"	4-Apr-62	4-Apr-62	145	85
L	05207	PRO	0	Parker Drilling Company	L 05207	Shallow	17S	35E	27	N 32° 47' 54.62"	W 103° 27' 12.93"	20-Jul-63	21-Jul-63	140	60
L	10593	PRO	0	Henry Petroleum Company	L 10593		17S	35E	27 3 2 4	N 32° 47' 2.13"	W 103° 27' 12.97"				
L	04618	PRO	3	A. W. Thompson, Inc.	L 04618	Shallow	17S	35E	34 3 3	N 32° 47' 2.13"	W 103° 27' 12.97"	31-Mar-61	31-Mar-61	128	55
					L 04618 APPRO	Shallow	17S	35E	34 3 3	N 32° 47' 2.13"	W 103° 27' 12.97"	31-Mar-61	31-Mar-61	128	55
L	04727	PRO	3	Noble Drilling Corp.	L 04727	Shallow	17S	35E	34	N 32° 47' 2.13"	W 103° 27' 12.97"	4-Oct-61	5-Oct-61	120	45
					L 04727 APPRO	Shallow	17S	35E	34	N 32° 47' 2.13"	W 103° 27' 12.97"	4-Oct-61	5-Oct-61	120	45
L	04775	PRO	3	Dale Mount Drilling Company	L 04775	Shallow	17S	35E	34 1 4	N 32° 47' 28.34"	W 103° 26' 57.43"	10-Dec-61	11-Dec-61	133	33
					L 04775 APPRO	Shallow	17S	35E	34 1 4	N 32° 47' 28.34"	W 103° 26' 57.43"	10-Dec-61	11-Dec-61	133	68
L	04793	PRO	3	Phillips Petroleum Co.	L 04793	Shallow	17S	35E	34	N 32° 47' 2.13"	W 103° 27' 12.97"	29-Jan-62	30-Jan-62	150	50
					L 04793 APPRO	Shallow	17S	35E	34	N 32° 47' 2.13"	W 103° 27' 12.97"	29-Jan-62	30-Jan-62	150	50
L	04793 (2)	PRO	0	Phillips Petroleum Co.	L 04793 (2)		17S	35E	34	N 32° 47' 2.13"	W 103° 27' 12.97"				
L	04793 (3)	PRO	0	Phillips Petroleum Co.	L 04793 (3)		17S	35E	34 2 2	N 32° 47' 41.37"	W 103° 26' 26.39"				
L	05834	IND	150	Southwestern Public Service	L 05834 X-1		17S	35E	34 4	N 32° 47' 2.08"	W 103° 26' 41.89"				
L	07784	IND	0	Southwestern Public Service	L 07784		17S	35E	34 4 3					225	
L	10297	SAN	3	Lasco Construction	L 10297	Shallow	17S	35E	34 1 1 3	N 32° 47' 41.5"	W 103° 27' 12.94"	20-Feb-92	20-Feb-92	150	42
L	10404	STK	3	Lee Cattle Company LTD	L 10404	Shallow	17S	35E	34 4 4 2	N 32° 47' 2.05"	W 103° 26' 26.35"	21-Jul-94	24-Jul-94	115	115
L	01063	DOM	3	H. Simpson	L 01063		17S	35E	35 1 2 4	N 32° 47' 41.26"	W 103° 25' 55.41"				
L	04632	PRO	0	Shoenfield Hunter & Kitch Drig	L 04632 APPRO	Shallow	17S	35E	35 3 3	N 32° 47' 2.02"	W 103° 26' 10.81"	21-Apr-61	23-Apr-61	130	40
L	04632 (1)	PRO	0	Phillips Petroleum Company	L 04632 (1) APPRO		17S	35E	35 2 3	N 32° 47' 28.08"	W 103° 25' 39.91"				
L	04632 (2)	PRO	0	Phillips Petroleum Company	L 04632 (2)		17S	35E	35 2 3	N 32° 47' 28.08"	W 103° 25' 39.91"				
L	04632 (3)	PRO	0	Phillips Petroleum Company	L 04632 (3)		17S	35E	35 2 3	N 32° 47' 28.08"	W 103° 25' 39.91"				
L	05834	IND	150	Southwestern Public Service	L 05834 X-2		17S	35E	35 4	N 32° 47' 1.88"	W 103° 25' 39.86"				
L	07783	IND	350	Southwestern Public Service	L 07783		17S	35E	35 3 4	N 32° 47' 1.95"	W 103° 25' 55.33"			225	

TABLE 2

WELL / SURFACE DATA REPORT - 09/20/04*

Duke Energy Field Services B Line - (Ref. #130013)

DB	File Nbr	Use	Diversion ^A	Owner	Well Number	Source	Twsp	Rng	Sec q q q	Latitude	Longitude	Start Date	Finish Date	Depth of Well (ft bgs)	Depth to Water (ft bgs)
L	08557	STK	0	R. D. Lee	L 08557 EXP		17S	35E	35 4 2 1	N 32° 47' 14.91"	W 103° 25' 24.41"				
L	08557 (1)	PRO	0	Amoco Producing	L 08557 (1) EXP		17S	35E	35 4 2 1	N 32° 47' 14.91"	W 103° 25' 24.41"				
L	8557 (2)	PRO	0	BTA Oil Producers	L 08557 (2) EXP		17S	35E	35 4 2 1	N 32° 47' 14.91"	W 103° 25' 24.41"				
L	8557 (3)	PRO	0	BTA Oil Producers	L 08557 (3)		17S	35E	35 4 2 1	N 32° 47' 14.91"	W 103° 25' 24.41"				
L	8557 (4)	PRO	0	Landis Drilling Company	L 08557 (4)		17S	35E	35 4 2 1	N 32° 47' 14.91"	W 103° 25' 24.41"				
L	8557 (5)	PRO	0	Yates Petroleum	L 08557 (5) EXP		17S	35E	35 4 2 1	N 32° 47' 14.91"	W 103° 25' 24.41"				
L	04553	PRO	3	Amerada Petroleum Corp.	L 04553	Shallow	17S	35E	36 3 1 1	N 32° 47' 14.84"	W 103° 25' 8.94"	21-Nov-60	22-Nov-60	110	60
L	04603	PRO	3	Curley Oates Drilling Co.	L 04603	Shallow	17S	35E	36 1 3	N 32° 47' 27.94"	W 103° 25' 8.97"	23-Feb-61	23-Feb-61	120	40
L	04710	PRO	3	Noble Drilling Corp.	L 04710	Shallow	17S	35E	36	N 32° 47' 1.74"	W 103° 25' 8.91"	28-Aug-61	30-Aug-61	121	50
L	05834	IND	1150	Southwestern Public Service	L 05834 X-3		17S	35E	36 4	N 32° 47' 1.54"	W 103° 24' 37.92"				

* = Data obtained from the New Mexico Office of the State Engineer Website (http://iwaters.ose.state.nm.us:7001/iWATERS/wr_RegisServlet1)

Shaded well information indicates well location shown on Figure 2

^A = in acre feet per annum

IND = Industrial

STK = Livestock Watering

PRO = Prospecting or Development of Natural Resources

DOM = Domestic One Household

SAN = Sanitary in Conjunction with a Industrial Use

(quarters are 1=NW, 2=NE, 3=SW, 4=SE)

(quarters are biggest to smallest - X Y are in Feet - UTM are in Meters)

APPENDIX I

LABORATORY ANALYTICAL REPORTS

AND

CHAIN-OF-CUSTODY FORMS



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

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

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

Receiving Date: 09/23/04
 Reporting Date: 09/29/04
 Project Owner: DUKE ENERGY FIELD SERVICES
 Project Name: B-LINE
 Project Location: NOT GIVEN

Sampling Date: 09/23/04
 Sample Type: SOIL
 Sample Condition: COOL & INTACT
 Sample Received By: GP
 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 DATE:	9/28/04	9/28/04	09/23/04	09/23/04	09/23/04	09/23/04
H9180-1 SDEBL92304NBH10	<10.0	42.4	<0.005	<0.005	<0.005	<0.015
Quality Control	732	754	0.090	0.093	0.097	0.296
True Value QC	800	800	0.100	0.100	0.100	0.300
% Recovery	91.5	94.2	90.2	92.3	96.5	98.6
Relative Percent Difference	0.0	0.4	4.7	2.4	3.0	4.1

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

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

9/29/04
 Date

H9180A.XLS

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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: 09/23/04
 Reporting Date: 09/24/04
 Project Owner: DUKE ENERGY FIELD SERVICES
 Project Name: B-LINE
 Project Location: NOT GIVEN

Sampling Date: 09/23/04
 Sample Type: SOIL
 Sample Condition: COOL & INTACT
 Sample Received By: GP
 Analyzed By: AH

LAB NUMBER	SAMPLE ID	SO ₄ (mg/Kg)	Cl (mg/Kg)
ANALYSIS DATE:		09/24/04	09/24/04
H9180-1	SDEBL92304NBH10	97	112
Quality Control		50.98	970
True Value QC		50.00	1000
% Recovery		102	97.0
Relative Percent Difference		1.2	6.2
METHODS: EPA 600/4-79-020		375.4	325.3

Amy Hill
 Chemist

9/24/04
 Date

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ARDINAL LABORATORIES

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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

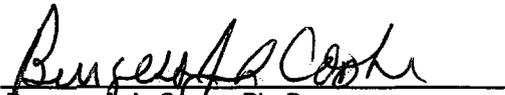
Receiving Date: 09/23/04
Reporting Date: 09/30/04
Project Owner: DUKE ENERGY FIELD SERVICES
Project Name: B-LINE
Project Location: NOT GIVEN

Sampling Date: 09/24/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
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 DATE:		9/28/04	9/28/04	09/29/04	09/29/04	09/29/04	09/29/04
H9185-1	SDEBL92404NWW8	<10.0	13.0	<0.005	<0.005	<0.005	<0.015
H9185-2	SDEBL92404NW8	<10.0	11.8	<0.005	<0.005	<0.005	<0.015
H9185-3	SDEBL92404NEW8	<10.0	12.6	<0.005	<0.005	<0.005	<0.015
H9185-4	SDEBL92404NW18	<10.0	11.6	<0.005	<0.005	<0.005	<0.015
H9185-5	SDEBL92404SW18	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H9185-6	SDEBL92404BH20	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H9185-7	SDEBL92404SWW8	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H9185-8	SDEBL92404SW8	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H9185-9	SDEBL92404SBH10	<10.0	15.4	<0.005	<0.005	<0.005	<0.015
H9185-10	SDEBL92404SEW8	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
Quality Control		732	754	0.091	0.092	0.099	0.305
True Value QC		800	800	0.100	0.100	0.100	0.300
% Recovery		91.5	94.2	90.8	91.9	99.4	102.0
Relative Percent Difference		0.0	0.4	6.8	5.2	4.3	3.5

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


Burgess J. A. Cooke, Ph. D.

9/30/04
Date

H9185A.XLS

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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

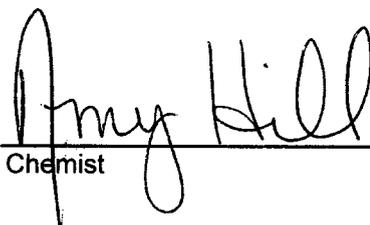
Receiving Date: 09/24/04
 Reporting Date: 09/30/04
 Project Owner: DUKE ENERGY FIELD SERVICES
 Project Name: B-LINE
 Project Location: NOT GIVEN

Sampling Date: 09/24/04
 Sample Type: SOIL
 Sample Condition: COOL & INTACT
 Sample Received By: GP
 Analyzed By: AH

LAB NUMBER	SAMPLE ID	SO ₄ (mg/Kg)	Cl (mg/Kg)
ANALYSIS DATE:		09/27/04	09/27/04
H9185-1	SDEBL92404NWW8	106	64
H9185-2	SDEBL92404NW8	<1	64
H9185-3	SDEBL92404NEW8	<1	48
H9185-4	SDEBL92404NW18	124	64
H9185-5	SDEBL92404SW18	10.8	48
H9185-6	SDEBL92404BH20	<1	64
H9185-7	SDEBL92404SWW8	2.08	64
H9185-8	SDEBL92404SW8	1.64	304
H9185-9	SDEBL92404BH10	<1	96
H9185-10	SDEBL92404SEW8	<1	112
Quality Control		50.98	1020
True Value QC		50.00	1000
% Recovery		102	102
Relative Percent Difference		1.2	4.9

METHODS: EPA 600/4-79-020	375.4	325.3
---------------------------	-------	-------

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


 Chemist

9/30/04
 Date

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 2

Company Name: <u>DUKE</u>		BILL TO		PO #:
Project Manager: <u>PAUL McKEE</u>		Company: <u>EPI</u>		
Address:		Attn: <u>JAIN</u>		
City:	State:	Zip:	Address:	
Phone #:	Project #: Project Owner:		City: <u>FUNICE</u>	
Fax #:	Project Name:		State: Zip:	
Project Location: <u>B-LINE</u>		Phone #: <u>394-3481</u>		
		Fax #: <u>394-2601</u>		

ANALYSIS REQUEST																				
FOR LAB USE ONLY	LAB I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRES.	SAMPLING									
					GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER:	ACID:	ICE / COOL	OTHER:	DATE	TIME					
	H9185-1	SDEBL92404NWW8	G											9-24-04	1200					
	-2	SDEBL92404NWS													1210					
	-3	SDEBL92404NEWS													1215					
	-4	SDEBL92404NWS	G												1225					
	-5	SDEBL92404SW18													1230					
	-6	SDEBL92404BH20													1235					
	-7	SDEBL92404SWW8													1240					
	-8	SDEBL92404SW8													1245					
	-9	SDEBL92404BH10													1250					
	-10	SDEBL92404SW8													1255					

TPH 8015M
 BTEX
 Chlorides
 Sulfates

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Sampler Relinquished:	Date: <u>9-24-04</u>	Received By:	Phone Result <input type="checkbox"/> Yes <input type="checkbox"/> No	Additional Fax #:
<u>Eddie Hager</u>	Time:		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Relinquished By:	Date:	Received By: (Lab Staff)	REMARKS:	
	Time:	<u>[Signature]</u>	TPH < 100 run BTEX IF BENZENE < 10 BTEX < 50 run Chloride + Sulfates	
Delivered By: (Circle One)	Sample Condition	Checked By:		
Sampler - UPS - Bus - Other:	Cool Intact <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> No	(Initials)		

† Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.



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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: 09/23/04
 Reporting Date: 09/30/04
 Project Owner: DUKE ENERGY FIELD SERVICES
 Project Name: NOT GIVEN
 Project Location: B-LINE

Sampling Date: 09/24/04
 Sample Type: SOIL
 Sample Condition: COOL & INTACT
 Sample Received By: GP
 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 DATE:		9/28/04	9/28/04	09/29/04	09/29/04	09/29/04	09/29/04
H9186-1	EHNW6	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H9186-2	EHBH7	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
Quality Control		732	754	0.091	0.092	0.099	0.305
True Value QC		800	800	0.100	0.100	0.100	0.300
% Recovery		91.5	94.2	90.8	91.9	99.4	102.0
Relative Percent Difference		0.0	0.4	6.8	5.2	4.3	3.5

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


 Burgess J. G. Cooke, Ph. D.

9/30/04
 Date

H9186A.XLS

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

Receiving Date: 10/05/04
 Reporting Date: 10/08/04
 Project Number: DUKE ENERGY FIELD SERVICES
 Project Name: NOT GIVEN
 Project Location: B-LINE

Sampling Date: 10/05/04
 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 ₁₀ -C ₂₈) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
---------	-----------	--	--	--------------------	--------------------	-----------------------------	-----------------------------

ANALYSIS DATE:	10/07/04	10/07/04	10/07/04	10/07/04	10/07/04	10/07/04	10/07/04
H9209-2 DEBL10504EHSW6	<10.0	<10.0	<0.005	0.033	<0.005	0.030	
Quality Control	749	747	0.092	0.093	0.098	0.301	
True Value QC	800	800	0.100	0.100	0.100	0.300	
% Recovery	93.7	93.4	91.5	92.5	97.9	100	
Relative Percent Difference	4.2	<0.1	2.4	2.5	5.6	5.3	

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


 Burgess J. A. Cooke, Ph. D.


 Date

H9209A.XLS

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

Receiving Date: 10/05/04
Reporting Date: 10/06/04
Project Owner: DUKE ENERGY FIELD SERVICES
Project Name: NOT GIVEN
Project Location: B-LINE

Sampling Date: 10/05/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

LAB NUMBER	SAMPLE ID	SO ₄ (mg/Kg)	Cl (mg/Kg)
ANALYSIS DATE:		10/06/04	10/06/04
H9209-1	DEBL10504SW8	-	64
H9209-2	DEBL10504EHSW6	25	96
Quality Control		50.98	1050
True Value QC		50.00	1000
% Recovery		102	105
Relative Percent Difference		1.2	2.9
METHODS: EPA 600/4-79-020		375.4	325.3

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

Amy Hill

Chemist

10/16/04

Date

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

Receiving Date: 10/07/04
Reporting Date: 10/08/04
Project Number: DUKE ENERGY FIELD SERVICES
Project Name: 130017
Project Location: B-LINE

Sampling Date: 10/07/04
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)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
------------	-----------	--	--	--------------------	--------------------	-----------------------------	-----------------------------

ANALYSIS DATE:		10/07/04	10/07/04	10/07/04	10/07/04	10/07/04	10/07/04
H9219-1	NWBC	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H9219-2	SWBC	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H9219-3	NEBC	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H9219-4	SEBC	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
Quality Control		793	774	0.088	0.092	0.098	0.305
True Value QC		800	800	0.100	0.100	0.100	0.300
% Recovery		99.1	96.8	87.6	91.8	98.2	102
Relative Percent Difference		1.6	4.1	4.5	0.8	0.3	1.2

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

Burgess J. & Cooke, Ph. D.

10/8/04
Date

H9219A.XLS

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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: 10/07/04
 Reporting Date: 10/08/04
 Project Owner: DUKE ENERGY FIELD SERVICES
 Project Name: 130017
 Project Location: B-LINE

Sampling Date: 10/07/04
 Sample Type: SOIL
 Sample Condition: COOL & INTACT
 Sample Received By: AH
 Analyzed By: AH

LAB NUMBER	SAMPLE ID	SO ₄ (mg/Kg)	Cl (mg/Kg)
ANALYSIS DATE:		10/085/04	10/08/04
H9219-1	NWBC	123	160
H9219-2	SWBC	111	80
H9219-3	NEBC	180	320
H9219-4	SEBC	137	368
Quality Control		50.98	1050
True Value QC		50.00	1000
% Recovery		102	105
Relative Percent Difference		1.2	2.9
METHODS: EPA 600/4-79-020		375.4	SM 4500-Cl

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

Amy Hill
 Chemist

10/8/04
 Date

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page ____ of ____

Company Name: Duke		Project Manager: Paul		Address:		City: State: Zip:		Phone #:		Fax #:		Project #: 130013		Project Owner:		Project Name:		Project Location: B-LINE		ANALYSIS REQUEST											
BILL TO		PO #:		Company: EPT		Attn: TRAIN		Address:		City: EUNICE		State: NM Zip: 88231		Phone #: 394-3481		Fax #:		TPH 8015M BEEX Chlorides Sulfates													
FOR LAB USE ONLY		LAB I.D.		Sample I.D.		# GRAB OR (COMP. #) CONTAINERS		MATRIX				PRES.		SAMPLING																	
								GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER:				ACID: ICE / COOL OTHER:		DATE TIME																	
		H9219-1		NWBC		6								10/7/04 115																	
		-2		SWBC		6								10/7/04 130																	
		-3		NEBC		6								140																	
		-4		SEBC		6								150																	

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Sampler Relinquished By: [Signature]		Date: _____	Received By:		Phone Result <input type="checkbox"/> Yes <input type="checkbox"/> No Additional Fax #: _____		
Relinquished By: _____		Time: _____	Received By: (Lab Staff)		Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No		
Delivered By: (Circle One)		Date: 10/7/04	[Signature]		REMARKS:		
Sampler - UPS - Bus - Other: UPS		Time: 3:22	Sample Condition		CHECKED BY: (Initials)		
		Cool Intact					
		<input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="checkbox"/> Yes <input type="checkbox"/> No			

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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: 10/11/04
Reporting Date: 10/12/04
Project Number: 130013 (DEFS)
Project Name: B-LINE
Project Location: NOT GIVEN

Analysis Date: 10/12/04
Sampling Date: 10/11/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/Kg)
H9227-1	NEBC	480
H9227-2	SEBC	112
Quality Control		1050
True Value QC		1000
% Recovery		105
Relative Percent Difference		2.9

METHOD: Standard Methods 4500-ClB

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



Chemist



Date

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ENVIRONMENTAL PLUS, INC.
ATTN: IAIN OLNESS
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EUNICE, NM 88231
FAX TO: (505) 394-2601

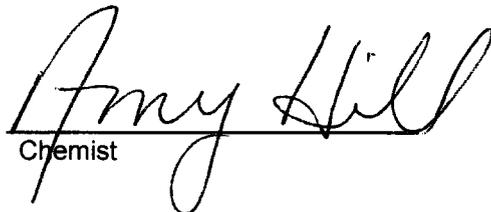
Receiving Date: 10/14/04
Reporting Date: 10/15/04
Project Number: 130013
Project Name: B-LINE
Project Location: NOT GIVEN

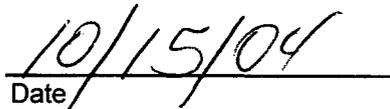
Analysis Date: 10/14/04
Sampling Date: 10/14/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/Kg)
H9238-1	NEBC	336
Quality Control		1050
True Value QC		1000
% Recovery		105
Relative Percent Difference		2.9

METHOD: Standard Methods	4500-Cl ⁻ B
--------------------------	------------------------

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


Chemist


Date

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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: 10/15/04
Reporting Date: 10/15/04
Project Number: NOT GIVEN
Project Name: B-LINE
Project Location: NOT GIVEN

Analysis Date: 10/15/04
Sampling Date: 10/15/04
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: GP
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/Kg)
H9241-1	NEBC	128
Quality Control		1050
True Value QC		1000
% Recovery		105
Relative Percent Difference		2.9

METHOD: Standard Methods	4500-Cl ⁻ B
--------------------------	------------------------

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

Amy Hill

Chemist

10/15/04

Date

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APPENDIX II
PROJECT PHOTOGRAPHS



Photo #1: Release area, looking westerly. Note that the steel line is being replaced with a polyethylene line.



Photo #2: Initial excavation activities, looking westerly.



Photo #3: Excavation, looking northeasterly.



Photo #4: Excavation, looking northwesterly.



Photo #5: Grading and contouring, looking westerly.



Photo #6: Site graded and contoured, looking westerly.

APPENDIX III

SITE INFORMATION AND METRICS FORM

AND

FINAL NMOCD C-141 FORM



Duke Energy Field Services Site Information and Metrics	Incident Date: 16 September 2004	NMOCD Notified: 16 September 2004
--	--	---

Site: B-Line **Assigned Site Reference #:** 130013

Company: Duke Energy Field Services

Street Address:

Mailing Address: 1625 West Marland

City, State, Zip: Hobbs, New Mexico 88240

Representative: Mark R. Owens

Representative Telephone: (505) 397-5541

Telephone:

Fluid volume released (bbls): 25 barrels	Recovered (bbls): 20 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: B-Line

Source of contamination: 8" steel line began leaking, probably due to internal corrosion. Line clamp installed and line replaced.

Land Owner, i.e., BLM, ST, Fee, Other: State Land

LSP Dimensions: 15 feet by 20 feet

LSP Area: ≈300 ft²

Location of Reference Point (RP):

Location distance and direction from RP:

Latitude: N 32° 47' 57.026"

Longitude: W 103° 25' 49.000"

Elevation above mean sea level: 3,909

Feet from South Section Line:

Feet from West Section Line:

Location- Unit or ¼: SE¼ of the SW¼ **Unit Letter:** N

Location- Section: 26

Location- Township: T17S

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): ≈ 54' below ground surface

Depth of contamination (DC): ≈ 20'

Depth to ground water (DG - DC = DtGW): <50 feet

1. Ground Water	2. Wellhead Protection Area	3. Distance to Surface Water Body
If Depth to GW <50 feet: <i>20 points</i>	If <1000' from water source, or, <200' from private domestic water source: <i>20 points</i>	<200 horizontal feet: <i>20 points</i>
If Depth to GW 50 to 99 feet: <i>10 points</i>		200-100 horizontal feet: <i>10 points</i>
If Depth to GW >100 feet: <i>0 points</i>	If >1000' from water source, or, >200' from private domestic water source: <i>0 points</i>	>1000 horizontal feet: <i>0 points</i>
Ground water Score = 20	Wellhead Protection Area Score = 0	Surface Water Score = 0

Site Rank (1+2+3) = 20

Total Site Ranking Score and Acceptable Concentrations

Parameter	>19	10-19	0-9
Benzene ¹	10 ppm	10 ppm	10 ppm
BTEX ¹	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1000 ppm	5000 ppm

¹100 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 Huerfano 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 Lynn Ward
Address 10 Desta Drive, Suite 400-W, Midland, TX 79705		Telephone No. (432) 620-4207
Facility Name B-Line		Facility Type 8" Steel Pipeline
Surface Owner State of New Mexico	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter N	Section 26	Township T17S	Range R35E	Feet from the North/South Line	Feet from the East/West Line	County: Lea Lat. N 32° 47' 57.026" Lon. W 103° 25' 49.000"
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NATURE OF RELEASE

Type of Release Natural Gas Pipeline Fluids	Volume of Release 25 barrels	Volume Recovered 20 barrels
Source of Release 8" steel pipeline operating at 15-20 lbs with a normal daily flow rate of 5 million cubic feet per day	Date and Hour of Occurrence 16 September 2004	Date and Hour of Discovery 16 September 2004
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Larry Johnson, Hobbs office of the NMOCD	
By Whom? Sam Duletsky	When? 16 September 2004 at 11:00 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. NA	
If a Watercourse was Impacted, Describe Fully. NA		
Describe Cause of Problem and Remedial Action Taken. 8" steel line began leaking, probably due to internal corrosion. Line clamp installed and line replaced with polyethylene pipeline.		
Describe Area Affected and Cleanup Action Taken. ≈ 324 yd ³ of soil contaminated above the NMOCD Remedial Guidelines was disposed of at an approved facility, and approximately 676 yd ³ was remediated on site. Remedial Goals: TPH = 100 mg/Kg, benzene = 10 mg/Kg, and BTEX = 50 mg/Kg. 3000' 58' ft		
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: <i>Lynn Ward</i>	OIL CONSERVATION DIVISION	
Printed Name: Lynn Ward	Approved by District Supervisor:	
E-mail Address: leward@duke-energy.com	Approval Date:	Expiration Date:
Title: Environmental Specialist-Western Division	Conditions of Approval:	
Date: 12/13/05 Phone: (432) 620-4207	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary