FINAL CLOSURE REPORT

CONOCOPHILLIPS - STATE "E" WATER TRANSFER LINE

EPI REF: #150010

NMOCD: #1RP-1183

UL-I (NE¼ OF THE SE¼) OF SECTION 20, T 22 S, R 36 E

~8.2 MILES WEST- SOUTHWEST OF EUNICE,

LEA COUNTY, NEW MEXICO

LATITUDE: N 32° 22' 31.75" LONGITUDE: W 103° 16' 44.61"

JULY 2007

PREPARED BY:

ENVIRONMENTAL PLUS, INC.
2100 AVENUE O
EUNICE, NEW MEXICO 88231

PREPARED FOR:

ConocoPhillips

Distribution List

Site Remedial Proposal

ConocoPhillips State "E" Water Transfer Line

NMOCD Ref. 1RP#1183; EPI Ref. #150010

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File	--	Environmental Plus, Inc.	2100 Avenue 'O' P.O. Box 1558 Eunice, NM 88231	dduncan@envplus.net

STANDARD OF CARE

Closure Report

ConocoPhillips - State "E" Water Transfer Line

(NMOCD Ref. #1RP-1183; EPI Ref. #150010)

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 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 derived using currently accepted geologic, hydrogeologic and engineering practices at this time and location. The report was prepared or reviewed by a certified or registered professional with a background in engineering, environmental and/or natural sciences.

This report was prepared by:

Daniel Dominguez
Environmental Consultant

7-19-07
Date

This report was reviewed by:

David P. Duncan
Civil Engineer

7-19-07
Date

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1.0 PROJECT SYNOPSIS

Site Specific:

- ***Company Name:*** ConocoPhillips
- ***Facility Name:*** State "E" Water Transfer Line
- ***Project Reference:*** NMOCD Ref. #1RP-1183; EPI Ref #150010
- ***Company Contact(s):*** Jesse Sosa
- ***Site Location:*** WGS84 N32° 22' 31.75"; W103° 16' 44.61"
- ***Legal Description:*** Unit Letter-I, (NE¼ of the SE¼), Section 20, T 22 S, R 36 E
- ***General Description:*** Approximately 8.2-miles west-southwest of Eunice, New Mexico
- ***Elevation:*** ~3,536-ft amsl
- ***Land Ownership:*** Land- Millard Deck Estate; Minerals-State of New Mexico
- ***EPI Personnel:*** Project Consultant – David P. Duncan

Release Specific:

- ***Product Released:*** Produced water
- ***Volume Released:*** ~88-bbls
- ***Volume Recovered:*** 0-bbls
- ***Time of Occurrence:*** 4/07/05
- ***Time of Discovery:*** 4/07/05 @800 hrs
- ***Release Source:*** Spill release from a produced water polypropylene pipeline
- ***Initial Surface Area Affected:*** ~ 1,600 square feet

Remediation Specific:

- ***Final Vertical extent of contaminates:*** ~ 65-feet bgs (based on analytical data from soil borings)
- ***Water wells within 1,000-ft:*** None
- ***Private domestic water sources within 200-ft:*** None
- ***Depth to Ground Water:*** ~250-ft bgs
- ***Surface water bodies within 1,000-ft:*** None
- ***NMOCD Site Ranking Index:*** Zero (0) points (>100-ft to top of water table and >1,000-ft from water source)
- ***Remedial goals for Soil:*** TPH – 5,000 mg/Kg; BTEX – 50 mg/Kg; Benzene – 10 mg/Kg; Chloride residuals may not be capable of impacting groundwater above NMWQCC Ground Water Standards of 250 mg/Kg.
- ***RCRA Waste Classification:*** Exempt
- ***Remediation Option Proposed:*** a) Approximately 1,302 yds^3 of soil impacted above NMOCD remedial threshold goals have been excavated and transported to Sundance Services, Inc. for disposal; b) laboratory analyses of soil samples collected from bottom and sidewalls of the excavation confirmed removal of most soil impacted above NMOCD remedial threshold goals; c) isolated residual chlorides in excavation bottom with 20-mil polyethylene liner; d) backfilled excavation with clean topsoil ; e) contoured remedial area to allow natural drainage; and f) seeded remedial area with a blend preferred by the land owner
- ***Treatment/Disposal Facility:*** Sundance Services, Inc.
- ***Volume disposed:*** ~1,302 yrd^3
- ***Project Completion Date:*** May 30, 2007

2.0 SITE AND RELEASE INFORMATION

2.1 ***Describe the land use and pertinent geographic features within 1,000 feet of the site.***
Surface rights for the land surrounding the release site are owned by the Millard Deck Estate and mineral rights are owned by the State of New Mexico. The area is an established oil field with pump jacks, tank batteries, pipelines, lease roads and other petroleum related facilities. The surrounding land is also used for livestock grazing.

2.2 ***Identify and describe the source or suspected source(s) of the release.***
Produced water release from a three inch (3") diameter polypropylene pipeline

2.3 ***What was the volume of the release? (if known):*** ~88 ***barrels of*** produced water

2.4 ***What was the volume recovered? (if known)***: Zero (0) ***barrels***

2.5 ***When did the release occur? (if known):*** 7-April-2005

2.6 ***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 Eunice Plains physiographic subdivision, described by Nicholson & Clebsch as an area "underlain by a hard caliche surface and is entirely covered by reddish-brown dune sand." The thickness of sand cover ranges from 2 to 5 feet in most areas to as much as 20-30 feet in drift areas.

2.7 ***Ecological Description***
The site is located in the Eunice Plains physiographic subdivision. Vegetation consists of semi-desert grasslands interspersed with Honey Mesquite (*Prosopis glandulosa*), 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.

2.8 ***Area Groundwater***
The unconfined groundwater aquifer at this site is projected to be ~250-ft bgs based on water depth data obtained from the New Mexico State Engineers Office and United States Geological Survey data base (reference *Table 2*).

2.9 ***Area Water Wells***
No public water supply wells are located within 1,000-feet of the release site. In addition, no private domestic fresh water wells or springs used by less than five households for domestic or stock watering purposes exist within 200-feet of the release site (reference *Table 1* and *Figure 2*).

2.10 ***Area Surface Water Features***
No surface water features exist within 1,000 feet of the release site (reference *Figure 2*).

3.0 NMOCD SITE RANKING

Contaminant delineation and remedial work done at this site indicate chemical parameters of the soil and physical parameters of the groundwater were 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)***
- ***Pit and Below-Grade Tank Guidelines (November, 2004)***

Acceptable thresholds for contaminants/constituents of concern (CoC) were determined based on the NMOCD Ranking Criteria as follows:

- *Depth to Groundwater (i.e., distance from the lower most acceptable concentration to ground-water);*
- *Wellhead Protection Area (i.e., distance from fresh water supply wells);*
- *Distance to Surface Water Body (i.e., horizontal distance to all down gradient surface water bodies).*

Based on the proximity of the site to protectable area water wells, surface water bodies and depth to groundwater from the lower most contamination, the NMOCD ranking score for the site is Zero (0) 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: *0 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) = 0 + 0 + 0 = 0 points		

Total Site Ranking Score and Acceptable Remedial Goal Concentrations			
Site Rank	20 or >	10	0
Benzene[1]	10 ppm	10 ppm	10 ppm
BTEX[1]	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 can be substituted in lieu of laboratory analyses for benzene and BTEX.

4.0 EXCAVATED SOIL INFORMATION

4.1 ***Was soil excavated for off-site treatment or disposal?*** ☒ *Yes* ☐ *No*
Date excavated: 2/26/2007 – 5/22/2007

Total volume removed: ~1,302 yds^3

4.2 ***Indicated soil treatment type:***

- ☒ ***Disposal***
- ☐ ***Land Treatment***
- ☐ ***Composting/Biopiling***
- ☐ ***Other*** ( )

Name and location of treatment/disposal facility:
Sundance Services, Inc.

5.0 SAMPLING INFORMATION

5.1 Briefly describe the field screening methods used to distinguish contaminated from uncontaminated soil.

Organic Vapor Concentrations – A portion of each soil sample collected was inserted into a self-sealing polyethylene bag to allow volatilization of organic vapors. After the samples equilibrated to ~70° F, they were analyzed for organic vapors utilizing a MiniRae® Photoionization Detector (PID) equipped with a 10.6 electron volt (eV) lamp and calibrated for detection of benzene vapors.

Chloride Concentrations – A LaMotte Chloride Test Kit (Titration Method) was utilized for field analyses of chloride concentrations.

5.2 Briefly describe the soil analytical sampling and handling procedures used.

Soil samples were collected during the advancement of two (2) soil borings utilizing a hollow core drill. Soil samples were collected at five foot (5-ft) intervals from original ground surface to total depth (TD) of each respective boring hole.

A portion of each soil sample collected was immediately put into laboratory containers, appropriately labeled and placed on ice for submittal to an independent laboratory for quantification of total petroleum hydrocarbons (TPH), benzene, toluene, ethylbenzene and total xylenes (BTEX) and chloride concentrations. The remaining portion of each sample was analyzed in the field for chloride and organic vapor concentrations utilizing methods described in Section 5.0, ***Sampling Information***, Subsection 5.1.

5.3 Discuss sample locations and provide rationale for their locations.

From April 19 through April 27, 2005, two (2) soil borings were advanced varying depths within the confines of the release area to delineate vertical extent of contamination. Soil boring hole BH-1 was advanced a total depth (TD) of sixty-five feet (65-ft). Soil boring hole BH-2, located approximately twenty-five feet (25-ft) south of BH-1, was advanced a total depth (TD) of thirty-five feet (35-ft). Soil samples were collected at ground surface and at five foot (5-ft) intervals thereafter to delineate the vertical extent of soil contamination. Locale for BH-1 was chosen to be within close proximity of the point of release which should contain elevated concentration of contaminants. Locale for BH-2 was chosen to indicate lateral as well as vertical extent of the impacted area (reference *Figure 4* and Appendix III, *Soil Boring Logs*).

On April 25, 2006 fourteen (14) soil samples were collected at varying depths from excavation bottom and sidewalls to delineate extent of contamination (reference *Figure 5*). Sidewall soil samples SW-1 through SW-10 were collected at 3-ft bgs. Bottom hole soil samples BH-1 through BH-4 were collected at 5-ft bgs. Locale for soil samples were chosen to indicate lateral as well as vertical extent of soil contamination (reference, *Table 3*).

On April 27 and May 16, 2007 a total of seven (7) soil samples were collected at varying depths from excavation bottom and sidewalls to delineate extent of contamination (reference *Figure 6*). SW-1B, SW-9B and SW-10B were collected at 3-ft bgs. BH-1B and BH-2B were collected at 6-ft bgs. BH-1C and BH-2C were collected at 8-ft bgs. Locale for soil samples was chosen to indicate lateral as well as vertical extent of soil contamination (reference, *Table 3*).

6.0 ANALYTICAL RESULTS

6.1 Describe the vertical and horizontal extent and magnitude of soil contamination.

Laboratory analyses of soil samples collected on the surface area prior to advancement of soil boring BH-1 indicated BTEX concentrations at 26.5 mg/Kg, TPH at 5,190 mg/Kg and chloride at 37,000 mg/Kg. Analysis of soil samples collected at five feet (5-ft) below ground surface (bgs) indicated BTEX and TPH concentrations were at or below laboratory analytical method detection limits (MDL). Laboratory analyses of BTEX and TPH concentrations were not conducted in the intervals of ten feet (10-ft) bgs to sixty-five feet (65-ft) bgs as field analyses of organic vapor concentrations were non-detectable. However, during these intervals chloride concentrations ranged from 294 mg/Kg (10-ft bgs) to 1,070 mg/Kg (65-ft bgs) (reference *Figure 4* and *Table 2*).

Laboratory analyses of soil samples collected on the surface prior to advancement of soil boring BH-2 indicated BTEX concentrations at 0.103 mg/Kg, TPH at 18,501 mg/Kg and chloride at 1,030 mg/Kg. Analyses of soil samples collected at five feet (5-ft) bgs indicated BTEX and TPH concentrations were at or below laboratory analytical MDL. Laboratory analyses for BTEX and TPH were not conducted in the intervals of ten feet (10-ft) bgs to thirty-five feet (35-ft) bgs as field analyses of organic vapor concentrations were non-detectable. Chloride concentrations during these intervals ranged from 431 mg/Kg (10-ft bgs) to 717 mg/Kg (15-ft bgs) (reference *Figure 4* and *Table 2*).

In reviewing analytical data in *Table 2*, the vertical extent of soil impacted with BTEX and TPH constituents exists from ground surface to approximately five feet (5-ft) bgs. Chloride concentrations extended from ground surface to sixty-five feet (65-ft) bgs. Horizontal extent of BTEX, TPH and chloride contamination is uniform in the interval between the two (2) soil borings. A background soil sample collected in the vicinity near the release area indicated chloride concentration at 320 mg/Kg. This indicates natural soil in vicinity of the release area may have elevated chloride concentrations.

Laboratory analyses of soil samples collected on April 25, 2007 indicated chloride concentrations ranged from ND at or above laboratory analytical MDL (SW-4) to 1,488 mg/Kg (BH-2) with the latter value exceeding remedial threshold goals of 250 mg/Kg (reference *Figure 5* and *Table 3*).

Laboratory analyses of soil samples collected on April 27 and May 16, 2007 indicated chloride concentrations ranged from 16 mg/Kg (SW-9B) to 1,296 mg/Kg (BH-2C) with the latter value exceeding remedial threshold goals of 250 mg/Kg (reference *Figure 6* and *Table 3*).

Is surface soil contamination present at the site (i.e., soil in the uppermost two feet that is visibly stained, contaminated at greater than 10 ppm (PID) or hydrocarbon saturated)?

☐ *yes* ☒ *no*

If yes, attach a site map identifying extent(s) of surface soil contamination.

Not Applicable

7. 0 DISCUSSION

7.1 ***Discuss the risks associated with the remaining soil contamination:***

There are no residual risks associated with BTEX or TPH. Verification soil samples collected at 5-ft bgs were below laboratory analytical MDL for these constituents.

Based on residual chloride concentrations, potential risks associated with chloride contamination of groundwater are considered minimal for the following reasons:

1. The vertical distance between groundwater (~250-ft bgs) and the lowest point of chloride impacted soil (~65-ft bgs) is approximately 185 feet. With chloride impacts confined to a relatively small area, natural attenuation will deplete concentrations significantly during migration. Hence, chloride residuals in the soil should not be capable of impacting groundwater above NMWQCC Groundwater Standards of 250 mg/L.

2. Vertical migration of in situ residual chlorides have been retarded with installation of a 20-mil polyethylene liner.

7.2 ***Discuss the risks associated with the impacted groundwater:*** Not Applicable

7.3 ***Discuss other concerns not mentioned above:*** Not Applicable

8.0 CONCLUSIONS AND RECOMMENDATIONS

8.1 ***Recommendation for the site:***

- ☒ ***Site Closure***
- ☐ ***Additional Groundwater Monitoring***
- ☐ ***Corrective Action***

8.2 ***Base the recommendation above on Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993). Describe below how you applied the policy to support your recommendation. If closure is recommended, please summarize significant site investigative events and describe how site specific risk issues have been adequately addressed or minimized to acceptable low risk levels.***

From February 26 through May 22, 2007 approximately 1,302 yds^3 of chloride impacted soil above NMOCD remedial threshold goals were disposed at Sundance Services, Inc.

To prevent vertical migration of residual in situ chloride concentrations a 20-mil polyethylene liner sandwiched between one (1) foot thick layers of cushion sand was placed on the entire bottom of the excavation. The remainder of the excavation was backfilled with clean topsoil to original ground surface. The excavation was backfilled with approximately 1,414 cubic yards of imported top soil. Upon completion of backfill operations, the entire remedial area was graded to allow natural drainage and seeded with a grass blend preferred by the property owner.

8.3 ***If additional groundwater and monitoring is recommended, indicate the proposed monitoring schedule and frequency. Conduct quarterly monitoring until the NMOCD responds to this report.*** Not Applicable

8.4 ***If corrective action is recommended, provide a conceptual approach.*** Not Applicable

FIGURES

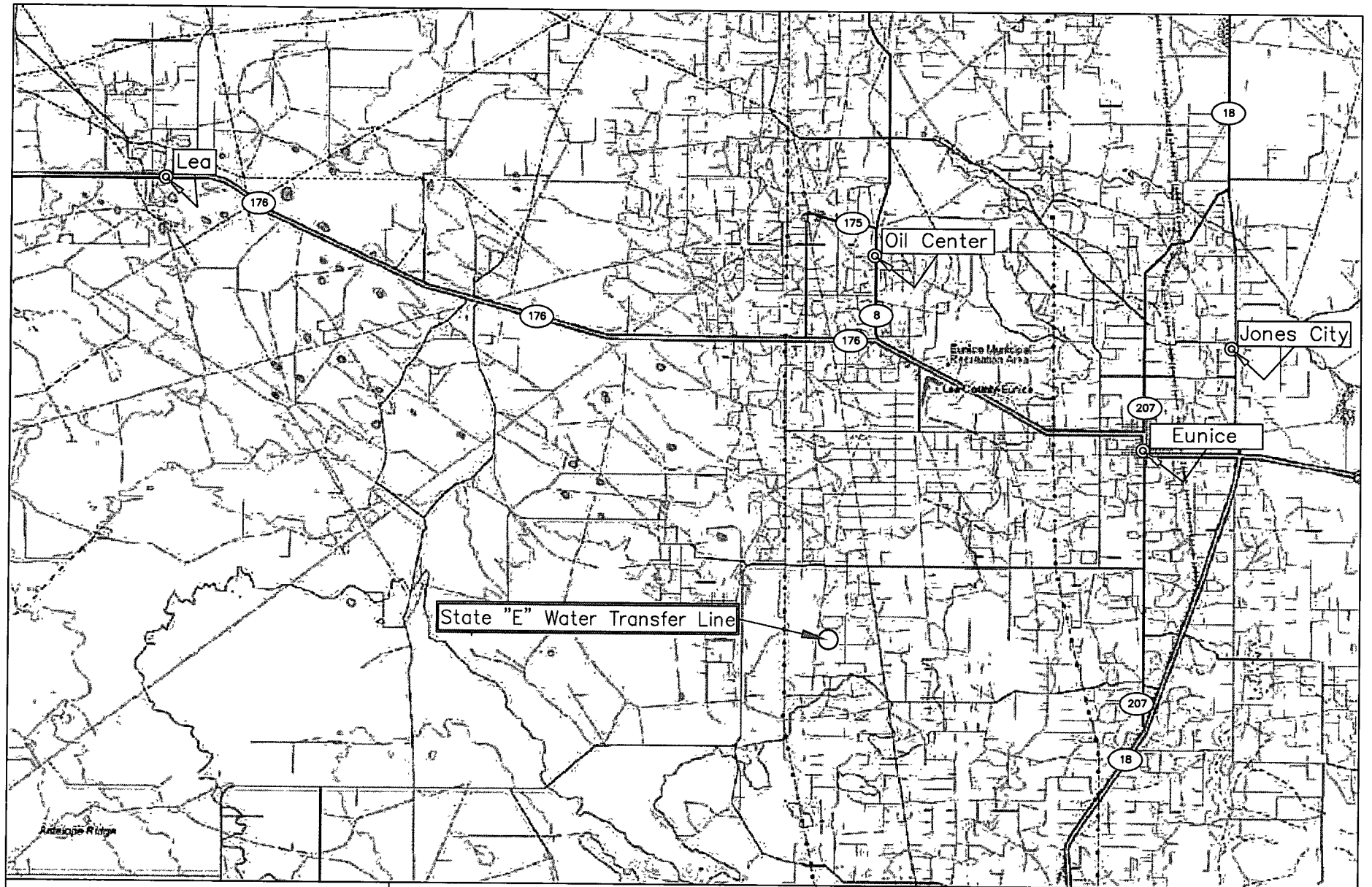

Figure 1 Area Map ConocoPhillips State "E" Water Transfer Line	Lea County, New Mexico NE 1/4 of the SE 1/4, Sec. 20, T22S, R36E N 32° 22' 31.75" W 103° 16' 44.61" Elevation: 3,536 feet amsl	DWG By: Daniel Dominguez April 2006	REVISED:
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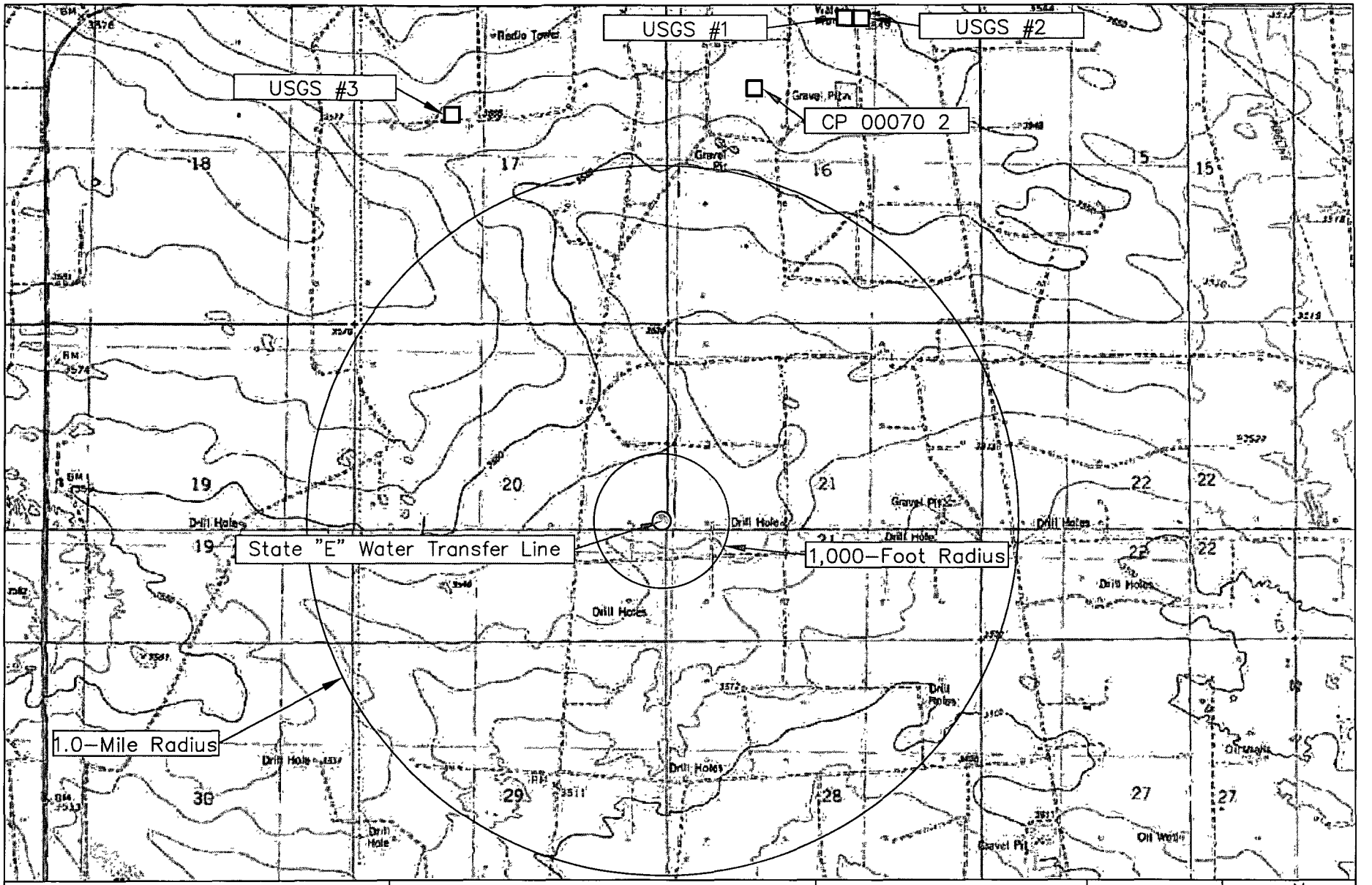

Figure 2
Site Location Map
ConocoPhillips
State "E" Water Transfer Line

Lea County, New Mexico
NE 1/4 of the SE 1/4, Sec. 20, T22S, R36E
N 32° 22' 31.75" W 103° 16' 44.61"
Elevation: 3,536 feet amsl

DWG By: Daniel Dominguez
April 2006

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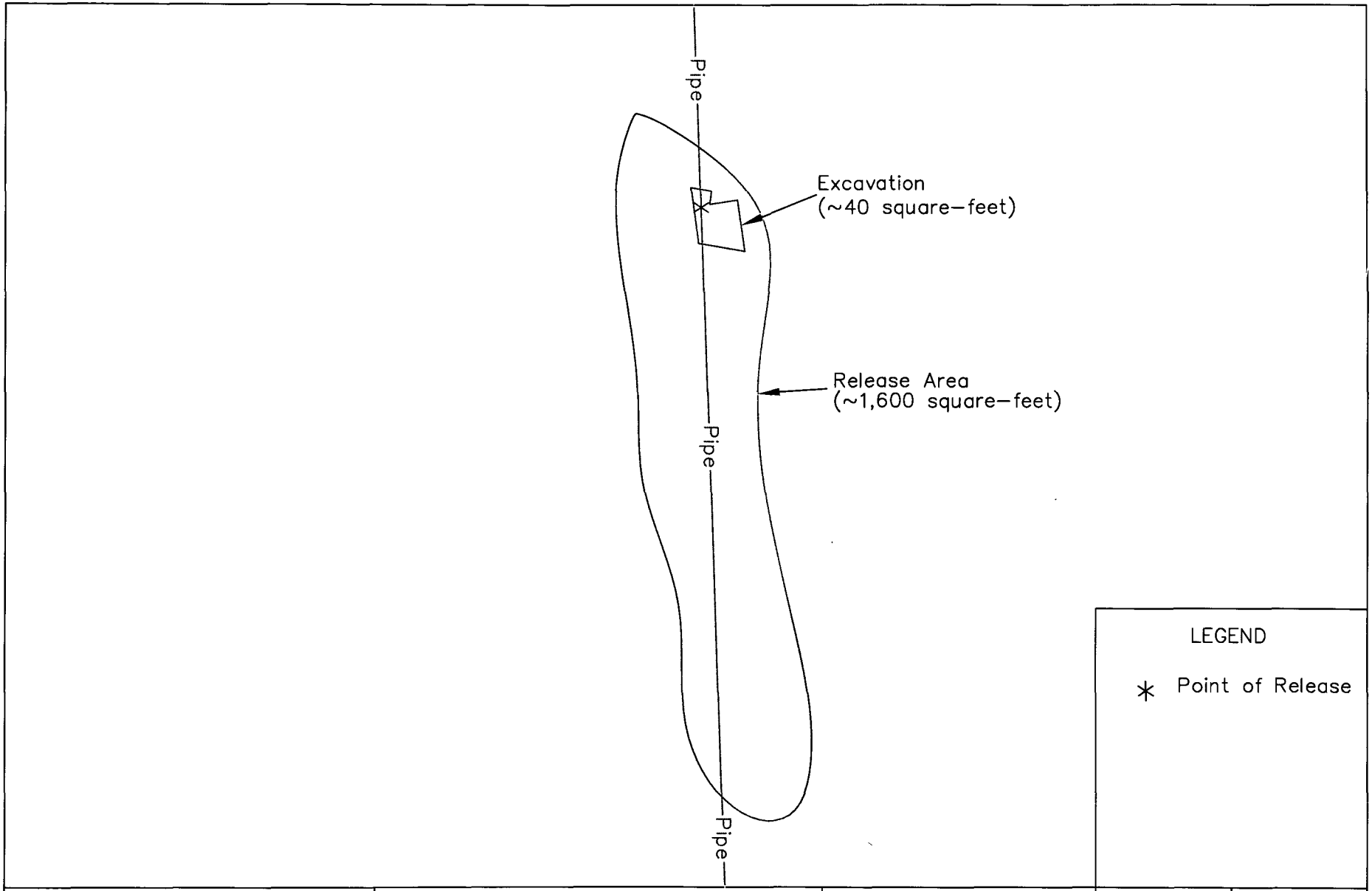

Figure 3 Site Map ConocoPhillips State "E" Water Transfer Line	Lea County, New Mexico NE 1/4 of the SE 1/4, Sec. 20, T22S, R36E N 32° 22' 31.75" W 103° 16' 44.61" Elevation: 3,536 feet amsl	DWG By: Daniel Dominguez April 2006	REVISED:	
			SHEET 1 of 1	

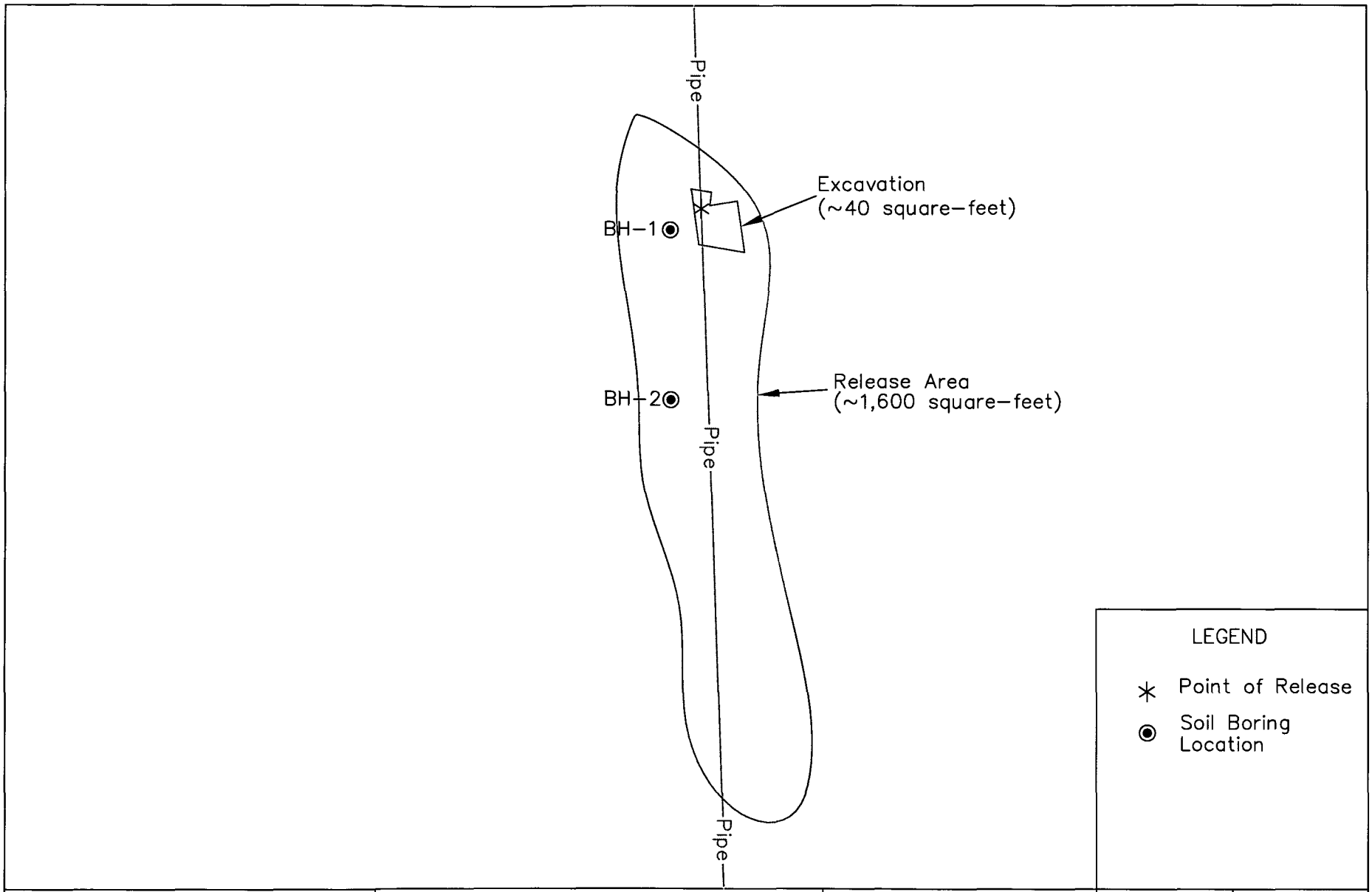

Figure 4 Soil Boring Map ConocoPhillips State "E" Water Transfer Line	Lea County, New Mexico NE 1/4 of the SE 1/4, Sec. 20, T22S, R36E N 32° 22' 31.75" W 103° 16' 44.61" Elevation: 3,536 feet amsl	DWG By: Daniel Dominguez April 2006	REVISED:	SHEET 1 of 1

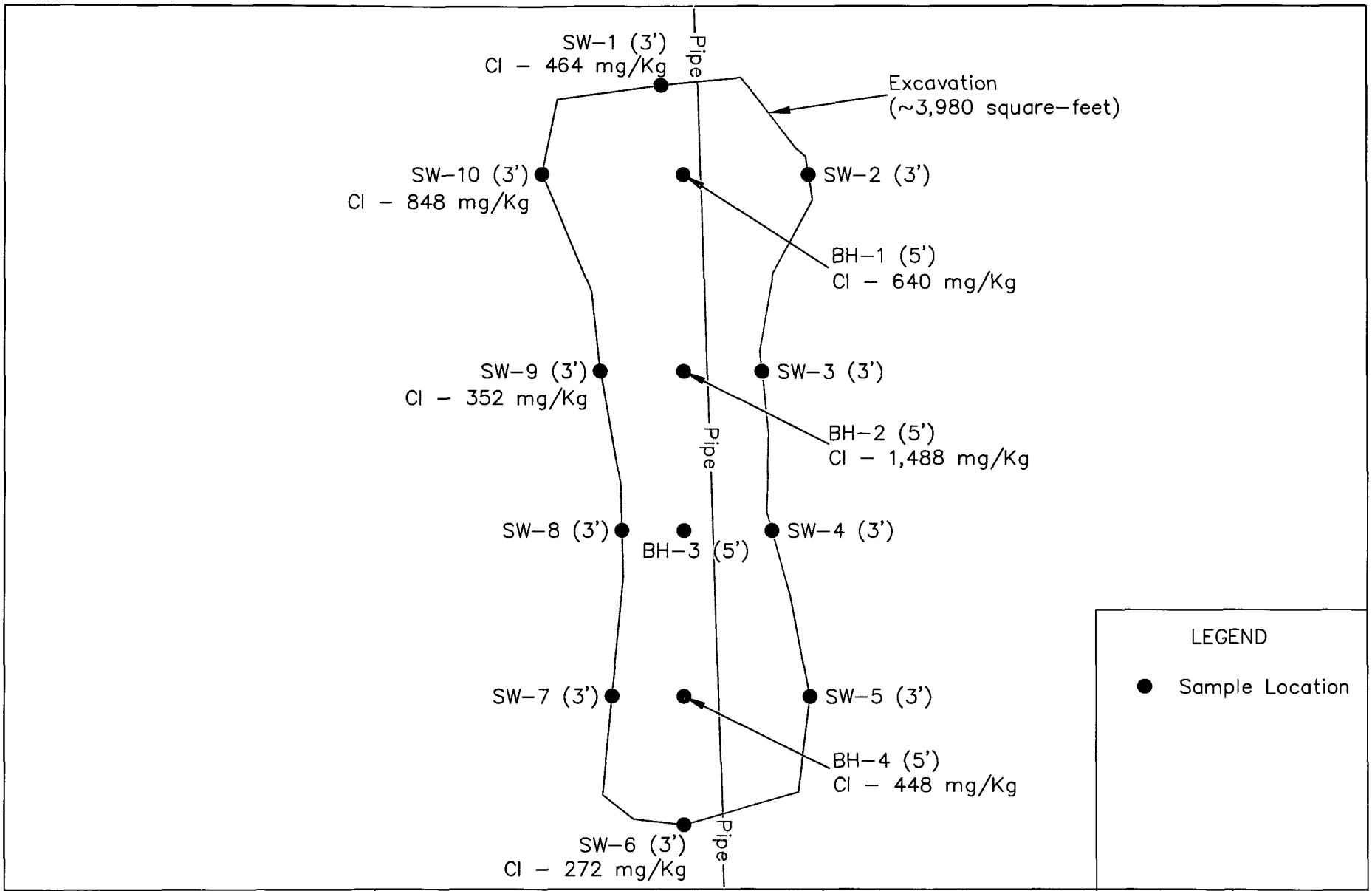

Figure 5
Sample Map – 4/25/2006
ConocoPhillips
State "E" Water Transfer Line

Lea County, New Mexico
NE 1/4 of the SE 1/4, Sec. 20, T22S, R36E
N 32° 22' 31.75" W 103° 16' 44.61"
Elevation: 3,536 feet amsl

DWG By: Daniel Dominguez
April 2006

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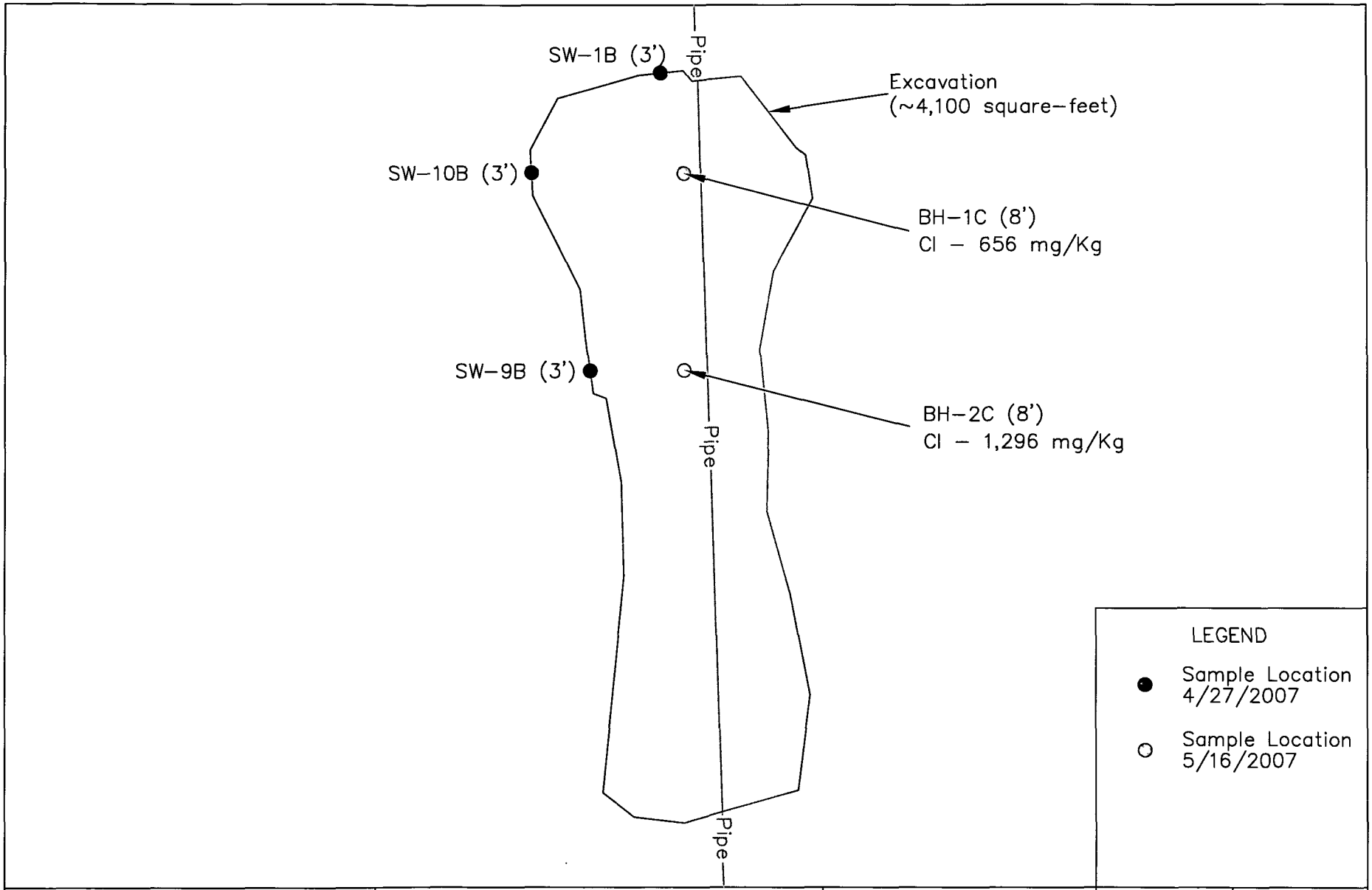

Figure 6 Sample Map - 4/27 & 5/16 2007 ConocoPhillips State "E" Water Transfer Line	Lea County, New Mexico NE 1/4 of the SE 1/4, Sec. 20, T22S, R36E N 32° 22' 31.75" W 103° 16' 44.61" Elevation: 3,536 feet amsl	DWG By: Daniel Dominguez April 2006	REVISED: July 2007	N
		0 25 50 Feet	SHEET 1 of 1	

TABLES

TABLE 1

Well Data

Conoco Phillips - State "E" Water Transfer Line (NMOCD Ref. #1RP1183; EPIRef. # 150010)

Well Number	Diversion[A]	Owner	Use	Twsp	Rng	Sec q q q	Latitude	Longitude	Date Measured	Surface Elevation[B]	Depth to Water (ft bgs)
CP 00070 2	3	MCVAY DRILLING CO.	STK	22S	36E	16 1 2 2	N32° 23' 42.95"	W103° 16' 26.28"	05-Oct-72	3,565	170
USGS #1				22S	36E	16 2 1 1			15-Feb-96	3,549	175.28
USGS #2				22S	36E	16 2 1 1			07-Mar-86	3,549	174.09
USGS #3				22S	36E	17 1 4 1			03-Dec-70	3,565	484.06

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

[A] = in acre feet per annum

[B] = Elevation interpolated from USGS topographical map based on referenced location.

STK = 72-12-1 Livestock watering

quarters are 1=NW, 2=NE, 3=SW, 4=SE; quarters are biggest to smallest

Shaded areas indicate wells not shown on Figure 2

TABLE 2

Summary of Soil Boring Soil Sample Field Analyses and Laboratory Analytical Results

ConocoPhillips

State "E" Water Transfer Line

NMOCD #1RP1183; EPI Ref. #150010

Sample I D	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	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)
BH-1 (surface)	Surface	In-Situ	19-Apr-05	6 3	12,000	0.749	2 51	4.55	18 7	26.5	1050	4,140	**5,190**	**37,000**
BH-1 (5')	5	In-situ	19-Apr-05	0.0	480	<0 0250	<0.0250	<0.0250	<0 0500	<0.1250	<10 0	<10 0	<20.0	241
BH-1 (10')	10	In-Situ	19-Apr-05	0.0	400	--	--	--	--	--	--	--	--	**294**
BH-1 (15')	15	In-Situ	19-Apr-05	0 0	560	-	--	--	--	--	--	--	--	**576**
BH-1 (20')	20	In-Situ	19-Apr-05	0 0	720	--	--	--	--	--	--	--	--	**608**
BH-1 (25')	25	In-Situ	19-Apr-05	0 0	720	--	--	--	--	--	--	--	--	**529**
BH-1 (30')	30	In-Situ	26-Apr-05	0.0	640	--	--	--	--	--	--	--	--	**577**
BH-1 (35')	35	In-Situ	26-Apr-05	0.0	560	--	--	--	--	--	--	--	--	**591**
BH-1 (40')	40	In-Situ	26-Apr-05	0.0	480	--	--	--	--	-	--	--	--	**446**
BH-1 (45')	45	In-Situ	26-Apr-05	0 0	400	--	--	--	--	--	--	--	--	**305**
BH-1 (50')	50	In-Situ	26-Apr-05	0.0	480	--	--	--	--	--	--	--	--	**389**
BH-1 (55')	55	In-Situ	26-Apr-05	0.0	480	--	--	--	--	--	--	--	--	**461**
BH-1 (60')	60	In-Situ	26-Apr-05	0 0	800	--	--	--	--	--	--	--	--	**718**
BH-1 (65')	65	In-Situ	27-Apr-05	0 0	1,200	-	--	--	--	--	--	--	--	**1,070**

TABLE 2

Summary of Soil Boring Soil Sample Field Analyses and Laboratory Analytical Results

ConocoPhillips

State "E" Water Transfer Line

NMOCD #1RP1183; EPI Ref. #150010

Sample I.D	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	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)
BH-2 (surface)	Surface	In-Situ	27-Apr-05	4.9	12,000	<0 0250	0.0369	0.0368	0.029	0 103	401	18,100	**18,501**	**1,030**
BH-2 (5')	5	In-situ	27-Apr-05	0	320	<0 0250	<0.0250	<0.0250	<0.0500	<0.1250	<10 0	J [6.55}	<20.0	174
BH-2 (10')	10	In-situ	27-Apr-05	0	560	--	--	--	--	--	--	--	--	**431**
BH-2 (15')	15	In-situ	27-Apr-05	0	800	--	--	--	--	--	--	--	--	**717**
BH-2 (20')	20	In-situ	27-Apr-05	0.0	560	--	--	--	--	--	--	--	--	**539**
BH-2 (25')	25	In-situ	27-Apr-05	0.0	560	--	--	--	--	--	--	--	--	**580**
BH-2 (30')	30	In-situ	27-Apr-05	0	560	--	--	--	--	--	--	--	--	**479**
BH-2 (35')	35	In-situ	27-Apr-05	0.0	560	--	--	--	--	--	--	--	--	**526**
Background	Surface	In-situ	19-Apr-05	--	320	--	--	--	--	--	--	--	--	22
NMOCD Remedial Threshold Goals				100		10				50			5,000	250 [1]

Bolded values are in excess of NMOCD Remediation Thresholds

[1] Chloride and sulfate residuals may not be capable of impacting groundwater above NMWQCC Groundwater Standards of 250 mg/L and 600 mg/L, respectively

J = Detected, but below Reporting Limits. Therefore, result is an estimated concentration (CLP J-Flag)

-- = Not Analyzed

ND = Not Detected

BH = Boring Hole

TABLE 3

Summary of Excavation Soil Sample Field Analyses and Laboratory Analytical Results

ConocoPhillips

State "E" Water Transfer Line

NMOCD #1RP1183; EPI Ref. #150010

Sample I.D	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	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)
SW-1	3	Excavated	25-Apr-06	--	--	--	--	--	--	--	--	--	--	**464**
SW-2	3	In-situ	25-Apr-06	--	--	--	--	--	--	--	--	--	--	176
SW-3	3	In-Situ	25-Apr-06	--	--	--	--	--	--	--	--	--	--	64
SW-4	3	In-Situ	25-Apr-06	--	--	--	--	--	--	--	--	--	--	<16
SW-5	3	In-Situ	25-Apr-06	--	--	--	--	--	--	--	--	--	--	16
SW-6	3	In-Situ	25-Apr-06	--	--	--	--	--	--	--	--	--	--	**272**
SW-7	3	In-Situ	25-Apr-06	--	--	--	--	--	--	--	--	--	--	32
SW-8	3	In-Situ	25-Apr-06	--	--	--	--	--	--	--	--	--	--	32
SW-9	3	Excavated	25-Apr-06	--	--	--	--	--	--	--	--	--	--	**352**
SW-10	3	Excavated	25-Apr-06	--	--	--	--	--	--	--	--	--	--	**848**
BH-1	5	Excavated	25-Apr-06	--	--	--	--	--	--	--	--	--	--	**640**
BH-2	5	Excavated	25-Apr-06	--	--	--	--	--	--	--	--	--	--	**1,488**
BH-3	5	In-Situ	25-Apr-06	--	--	--	--	--	--	--	--	--	--	224
BH-4	5	In-Situ	25-Apr-06	--	--	--	--	--	--	--	--	--	--	**448**

TABLE 3

Summary of Excavation Soil Sample Field Analyses and Laboratory Analytical Results

ConocoPhillips

State "E" Water Transfer Line

NMOCD #1RP1183; EPI Ref. #150010

Sample I D.	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	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)
BH-1B	6	Excavated	27-Apr-07	--	--	--	--	--	--	--	--	--	--	**576**
BH-2B	6	Excavated	27-Apr-07	--	--	--	--	--	--	--	--	--	--	**928**
SW-1B	3	In-situ	27-Apr-07	--	--	--	--	--	--	--	--	--	--	80
SW-9B	3	In-situ	27-Apr-07	--	--	--	--	--	--	--	--	--	--	16
SW-10B	3	In-situ	27-Apr-07	--	--	--	--	--	--	--	--	--	--	32
BH-1C	8	In-situ	16-May-07	--	--	--	--	--	--	--	--	--	--	**656**
BH-2C	8	In-situ	16-May-07	--	--	--	--	--	--	--	--	--	--	**1,296**
NMOCD Remedial Threshold Goals				100		10				50			5,000	250 [1]

Bolded values are in excess of NMOCD Remediation Thresholds

[1] Chloride and sulfate residuals may not be capable of impacting groundwater above NMWQCC Groundwater Standards of 250 mg/L and 600 mg/L, respectively

J = Detected, but below Reporting Limits Therefore, result is an estimated concentration (CLP J-Flag)

-- = Not Analyzed

ND = Not Detected

BH = Bottom Sample Hole; SW = Sidewalls

* = No field analyses conducted. Solids would not settle out of solution

APPENDICES

APPENDIX I

LABORATORY ANALYTICAL REPORTS
AND
CHAIN-OF-CUSTODY FORM

ENVIRONMENTAL LAB OF

12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Iain Olness

Environmental Plus, Incorporated

P.O. Box 1558

Eunice, NM 88231

Project: Conoco Phillips/ State E Lease

Project Number: 150010

Location: None Given

Lab Order Number: 5D29014

Report Date: 05/05/05

Environmental Plus, Incorporated	Project. Conoco Phillips/ State E Lease	Fax. 505-394-2601
P.O Box 1558	Project Number 150010	**Reported:**
Eunice NM, 88231	Project Manager. Iain Olness	05/05/05 11.47

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
BH-1 (Surface)	5D29014-01	Soil	04/19/05 09 27	04/29/05 14.10
BH-1 (5')	5D29014-02	Soil	04/19/05 09.32	04/29/05 14.10
BH-1 (10')	5D29014-03	Soil	04/19/05 11.36	04/29/05 14.10
BH-1 (15')	5D29014-04	Soil	04/19/05 12 58	04/29/05 14.10
BH-1 (20')	5D29014-05	Soil	04/19/05 13.38	04/29/05 14 10
BH-1 (25')	5D29014-06	Soil	04/19/05 15 30	04/29/05 14.10
BH-1 (30')	5D29014-07	Soil	04/26/05 08 40	04/29/05 14.10
BH-1 (35')	5D29014-08	Soil	04/26/05 09 37	04/29/05 14 10
BH-1 (40')	5D29014-09	Soil	04/26/05 10 20	04/29/05 14 10
BH-1 (45')	5D29014-10	Soil	04/26/05 11.27	04/29/05 14.10
BH-1 (50')	5D29014-11	Soil	04/26/05 12.44	04/29/05 14 10
BH-1 (55')	5D29014-12	Soil	04/26/05 14.59	04/29/05 14 10
BH-1 (60')	5D29014-13	Soil	04/26/05 16 10	04/29/05 14.10
BH-1 (65')	5D29014-14	Soil	04/27/05 09 00	04/29/05 14 10
BH-2 (Surface)	5D29014-15	Soil	04/27/05 10.15	04/29/05 14.10
BH-2 (5')	5D29014-16	Soil	04/27/05 10.39	04/29/05 14.10
BH-2 (10')	5D29014-17	Soil	04/27/05 11 06	04/29/05 14 10
BH-2 (15')	5D29014-18	Soil	04/27/05 11 18	04/29/05 14 10
BH-2 (20')	5D29014-19	Soil	04/27/05 11.45	04/29/05 14.10
BH-2 (25')	5D29014-20	Soil	04/27/05 12.31	04/29/05 14 10
BH-2 (30')	5D29014-21	Soil	04/27/05 12.44	04/29/05 14.10
BH-2 (35')	5D29014-22	Soil	04/27/05 14.59	04/29/05 14.10
Background	5D29014-23	Soil	04/19/05 00 00	04/29/05 14.10

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 (Surface) (5D29014-01) Soil									
Benzene	**0.749**	0.100	mg/kg dry	100	EE50202	04/29/05	05/02/05	EPA 8021B	
Toluene	**2.51**	0.100	"	"	"	"	"	"	
Ethylbenzene	**4.55**	0 100	"	"	"	"	"	"	
Xylene (p/m)	**13.8**	0.100	"	"	"	"	"	"	
Xylene (o)	**4.89**	0.100	"	"	"	"	"	"	
Surrogate a,a,a-Trifluorotoluene		*153 %*	*80-120*		"	"	"	"	*S-04*
Surrogate 4-Bromofluorobenzene		*132 %*	*80-120*		"	"	"	"	*S-04*
Gasoline Range Organics C6-C12	**1050**	10 0	mg/kg dry	1	ED52904	04/29/05	04/29/05	EPA 8015M	
Diesel Range Organics >C12-C35	**4140**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**5190**	10 0	"	"	"	"	"	"	
Surrogate 1-Chlorooctane		*114 %*	*70-130*		"	"	"	"	
Surrogate 1-Chlorooctadecane		*71.0 %*	*70-130*		"	"	"	"	
BH-1 (5') (5D29014-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE50306	05/03/05	05/03/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0 0250	"	"	"	"	"	"	
Surrogate a,a,a-Trifluorotoluene		*85.6 %*	*80-120*		"	"	"	"	
Surrogate 4-Bromofluorobenzene		*91.0 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE50205	05/02/05	05/02/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate· 1-Chlorooctane		*82.2 %*	*70-130*		"	"	"	"	
Surrogate 1-Chlorooctadecane		*74 2 %*	*70-130*		"	"	"	"	
BH-2 (Surface) (5D29014-15) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE50202	04/29/05	05/02/05	EPA 8021B	
Toluene	**0.0369**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.0368**	0 0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0997**	0 0250	"	"	"	"	"	"	
Xylene (o)	**0.0294**	0 0250	"	"	"	"	"	"	
Surrogate a,a,a-Trifluorotoluene		*83.8 %*	*80-120*		"	"	"	"	
Surrogate 4-Bromofluorobenzene		*85 3 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**401**	50 0	mg/kg dry	5	ED52904	04/29/05	04/29/05	EPA 8015M	
Diesel Range Organics >C12-C35	**18100**	50 0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**18500**	50 0	"	"	"	"	"	"	

Environmental Plus, Incorporated	Project Conoco Phillips/ State E Lease	Fax 505-394-2601
P O Box 1558	Project Number 150010	**Reported:**
Eunice NM, 88231	Project Manager. Iain Olness	05/05/05 11 47

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-2 (Surface) (5D29014-15) Soil									
Surrogate 1-Chlorooctane		*11 6 %*	*70-130*		*ED52904*	*04/29/05*	*04/29/05*	*EPA 8015M*	*S-06*
Surrogate 1-Chlorooctadecane		*13 0 %*	*70-130*		"	"	"	"	*S-06*
BH-2 (5') (5D29014-16) Soil									
Benzene	ND	0 0250	mg/kg dry	25	EE50306	05/03/05	05/03/05	EPA 8021B	
Toluene	ND	0 0250	"	"	"	"	"	"	
Ethylbenzene	ND	0 0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0 0250	"	"	"	"	"	"	
Xylene (o)	ND	0 0250	"	"	"	"	"	"	
Surrogate a,a,a-Trifluorotoluene		*85.0 %*	*80-120*		"	"	"	"	
Surrogate 4-Bromofluorobenzene		*94.3 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE50205	05/02/05	05/02/05	EPA 8015M	
Diesel Range Organics >C12-C35	**J [6.55]**	10 0	"	"	"	"	"	"	J
Total Hydrocarbon C6-C35	ND	10 0	"	"	"	"	"	"	
Surrogate. 1-Chlorooctane		*81.0 %*	*70-130*		"	"	"	"	
Surrogate. 1-Chlorooctadecane		*73.2 %*	*70-130*		"	"	"	"	

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Environmental Plus, Incorporated	Project: Conoco Phillips/ State E Lease	Fax: 505-394-2601
P.O. Box 1558	Project Number 150010	**Reported:**
Eunice NM, 88231	Project Manager. Iain Olness	05/05/05 11.47

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 (Surface) (5D29014-01) Soil									
Chloride	**37000**	5000	mg/kg	10000	EE50303	05/02/05	05/02/05	EPA 300 0	
% Moisture	**12.5**	0 1	%	1	EE50206	04/29/05	05/02/05	% calculation	
BH-1 (5') (5D29014-02) Soil									
Chloride	**241**	10 0	mg/kg	20	EE50409	05/03/05	05/03/05	EPA 300 0	
% Moisture	**11.8**	0.1	%	1	EE50301	05/02/05	05/03/05	% calculation	
BH-1 (10') (5D29014-03) Soil									
Chloride	**294**	25 0	mg/kg	50	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-1 (15') (5D29014-04) Soil									
Chloride	**576**	25.0	mg/kg	50	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-1 (20') (5D29014-05) Soil									
Chloride	**608**	25.0	mg/kg	50	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-1 (25') (5D29014-06) Soil									
Chloride	**529**	25.0	mg/kg	50	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-1 (30') (5D29014-07) Soil									
Chloride	**577**	25.0	mg/kg	50	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-1 (35') (5D29014-08) Soil									
Chloride	**591**	25.0	mg/kg	50	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-1 (40') (5D29014-09) Soil									
Chloride	**446**	25.0	mg/kg	50	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-1 (45') (5D29014-10) Soil									
Chloride	**305**	10 0	mg/kg	20	EE50409	05/03/05	05/03/05	EPA 300 0	

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P.O. Box 1558	Project Number 150010	**Reported:**
Eunice NM, 88231	Project Manager Iain Olness	05/05/05 11 47

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-1 (50') (5D29014-11) Soil									
Chloride	**389**	20.0	mg/kg	40	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-1 (55') (5D29014-12) Soil									
Chloride	**461**	20 0	mg/kg	40	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-1 (60') (5D29014-13) Soil									
Chloride	**718**	25 0	mg/kg	50	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-1 (65') (5D29014-14) Soil									
Chloride	**1070**	50 0	mg/kg	100	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-2 (Surface) (5D29014-15) Soil									
Chloride	**1030**	50.0	mg/kg	100	EE50303	05/02/05	05/02/05	EPA 300 0	
% Moisture	**0.7**	0.1	%	1	EE50206	04/29/05	05/02/05	% calculation	
BH-2 (5') (5D29014-16) Soil									
Chloride	**174**	10 0	mg/kg	20	EE50409	05/03/05	05/03/05	EPA 300 0	
% Moisture	**12.1**	0 1	%	1	EE50301	05/02/05	05/03/05	% calculation	
BH-2 (10') (5D29014-17) Soil									
Chloride	**431**	25.0	mg/kg	50	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-2 (15') (5D29014-18) Soil									
Chloride	**717**	50 0	mg/kg	100	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-2 (20') (5D29014-19) Soil									
Chloride	**539**	25 0	mg/kg	50	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-2 (25') (5D29014-20) Soil									
Chloride	**580**	25.0	mg/kg	50	EE50409	05/03/05	05/03/05	EPA 300 0	

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General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
BH-2 (30') (5D29014-21) Soil									
Chloride	**479**	25.0	mg/kg	50	EE50409	05/03/05	05/03/05	EPA 300 0	
BH-2 (35') (5D29014-22) Soil									
Chloride	**526**	25.0	mg/kg	50	EE50409	05/03/05	05/03/05	EPA 300 0	
Background (5D29014-23) Soil									
Chloride	**21.8**	5.00	mg/kg	10	EE50303	05/02/05	05/02/05	EPA 300 0	

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch ED52904 - Solvent Extraction (GC)										
Blank (ED52904-BLK1)				Prepared & Analyzed 04/29/05						
Gasoline Range Organics C6-C12	ND	10 0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10 0	"							
Total Hydrocarbon C6-C35	ND	10 0	"							
Surrogate 1-Chlorooctane	*36 3*		*mg/kg*	*50 0*		*72 6*	*70-130*			
Surrogate 1-Chlorooctadecane	*38 7*		*"*	*50 0*		*77 4*	*70-130*			
LCS (ED52904-BS1)				Prepared & Analyzed 04/29/05						
Gasoline Range Organics C6-C12	430	10 0	mg/kg wet	500		86 0	75-125			
Diesel Range Organics >C12-C35	445	10 0	"	500		89 0	75-125			
Total Hydrocarbon C6-C35	875	10 0	"	1000		87 5	75-125			
Surrogate 1-Chlorooctane	*35 6*		*mg/kg*	*50 0*		*71 2*	*70-130*			
Surrogate 1-Chlorooctadecane	*36 6*		*"*	*50 0*		*73 2*	*70-130*			
Calibration Check (ED52904-CCV1)				Prepared & Analyzed. 04/29/05						
Gasoline Range Organics C6-C12	464		mg/kg	500		92 8	80-120			
Diesel Range Organics >C12-C35	519		"	500		104	80-120			
Total Hydrocarbon C6-C35	983		"	1000		98 3	80-120			
Surrogate 1-Chlorooctane	*46 2*		*"*	*50 0*		*92 4*	*70-130*			
Surrogate 1-Chlorooctadecane	*37 3*		*"*	*50 0*		*74 6*	*70-130*			
Matrix Spike (ED52904-MS1)	**Source: 5D29001-01**			Prepared & Analyzed 04/29/05						
Gasoline Range Organics C6-C12	482	10 0	mg/kg dry	533	ND	90 4	75-125			
Diesel Range Organics >C12-C35	575	10 0	"	533	ND	108	75-125			
Total Hydrocarbon C6-C35	1060	10 0	"	1070	ND	99 1	75-125			
Surrogate 1-Chlorooctane	*44.0*		*mg/kg*	*50 0*		*88 0*	*70-130*			
Surrogate 1-Chlorooctadecane	*36 6*		*"*	*50 0*		*73 2*	*70-130*			
Matrix Spike Dup (ED52904-MSD1)	**Source: 5D29001-01**			Prepared & Analyzed. 04/29/05						
Gasoline Range Organics C6-C12	483	10 0	mg/kg dry	533	ND	90 6	75-125	0.207	20	
Diesel Range Organics >C12-C35	561	10.0	"	533	ND	105	75-125	2 46	20	
Total Hydrocarbon C6-C35	1040	10 0	"	1070	ND	97 2	75-125	1 90	20	
Surrogate 1-Chlorooctane	*42 7*		*mg/kg*	*50 0*		*85 4*	*70-130*			
Surrogate 1-Chlorooctadecane	*36 2*		*"*	*50 0*		*72 4*	*70-130*			

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE50202 - EPA 5030C (GC)										
Blank (EE50202-BLK1)				Prepared & Analyzed 04/29/05						
Benzene	ND	0 0250	mg/kg wet							
Toluene	ND	0 0250	"							
Ethylbenzene	ND	0 0250	"							
Xylene (p/m)	ND	0 0250	"							
Xylene (o)	ND	0 0250	"							
Surrogate a,a,a-Trifluorotoluene	*94 7*		*ug/kg*	*100*		*94 7*	*80-120*			
Surrogate 4-Bromofluorobenzene	*101*		*"*	*100*		*101*	*80-120*			
LCS (EE50202-BS1)				Prepared & Analyzed. 04/29/05						
Benzene	94 7		ug/kg	100		94.7	80-120			
Toluene	99 0		"	100		99 0	80-120			
Ethylbenzene	98.0		"	100		98 0	80-120			
Xylene (p/m)	220		"	200		110	80-120			
Xylene (o)	104		"	100		104	80-120			
Surrogate a,a,a-Trifluorotoluene	*111*		*"*	*100*		*111*	*80-120*			
Surrogate 4-Bromofluorobenzene	*113*		*"*	*100*		*113*	*80-120*			
Calibration Check (EE50202-CCV1)				Prepared. 04/29/05 Analyzed. 05/02/05						
Benzene	89 0		ug/kg	100		89 0	80-120			
Toluene	92 0		"	100		92 0	80-120			
Ethylbenzene	90 0		"	100		90 0	80-120			
Xylene (p/m)	203		"	200		102	80-120			
Xylene (o)	98 4		"	100		98 4	80-120			
Surrogate a,a,a-Trifluorotoluene	*105*		*"*	*100*		*105*	*80-120*			
Surrogate 4-Bromofluorobenzene	*111*		*"*	*100*		*111*	*80-120*			
Matrix Spike (EE50202-MS1)	**Source: 5D28002-05**			Prepared 04/29/05 Analyzed. 04/30/05						
Benzene	2310		ug/kg	2500	ND	92 4	80-120			
Toluene	2340		"	2500	ND	93 6	80-120			
Ethylbenzene	2180		"	2500	ND	87 2	80-120			
Xylene (p/m)	4770		"	5000	47 5	94 4	80-120			
Xylene (o)	2150		"	2500	ND	86 0	80-120			
Surrogate a,a,a-Trifluorotoluene	*101*		*"*	*100*		*101*	*80-120*			
Surrogate 4-Bromofluorobenzene	*100*		*"*	*100*		*100*	*80-120*			

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE50202 - EPA 5030C (GC)										
Matrix Spike Dup (EE50202-MSD1)	**Source: 5D28002-05**			Prepared. 04/29/05 Analyzed 04/30/05						
Benzene	2380		ug/kg	2500	ND	95 2	80-120	2 99	20	
Toluene	2440		"	2500	ND	97 6	80-120	4 18	20	
Ethylbenzene	2370		"	2500	ND	94 8	80-120	8.35	20	
Xylene (p/m)	5240		"	5000	47 5	104	80-120	9.68	20	
Xylene (o)	2410		"	2500	ND	96 4	80-120	11.4	20	
Surrogate a,a,a-Trifluorotoluene	*96 1*		"	*100*		*96 1*	*80-120*			
Surrogate 4-Bromofluorobenzene	*114*		"	*100*		*114*	*80-120*			
Batch EE50205 - Solvent Extraction (GC)										
Blank (EE50205-BLK1)				Prepared & Analyzed 05/02/05						
Gasoline Range Organics C6-C12	ND	10 0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10 0	"							
Total Hydrocarbon C6-C35	ND	10 0	"							
Surrogate 1-Chlorooctane	*38 5*		*mg/kg*	*50 0*		*77 0*	*70-130*			
Surrogate 1-Chlorooctadecane	*37 4*		"	*50 0*		*74 8*	*70-130*			
LCS (EE50205-BS1)				Prepared & Analyzed 05/02/05						
Gasoline Range Organics C6-C12	411	10 0	mg/kg wet	500		82.2	75-125			
Diesel Range Organics >C12-C35	444	10 0	"	500		88.8	75-125			
Total Hydrocarbon C6-C35	855	10 0	"	1000		85 5	75-125			
Surrogate 1-Chlorooctane	*35 7*		*mg/kg*	*50 0*		*71 4*	*70-130*			
Surrogate 1-Chlorooctadecane	*39 8*		"	*50 0*		*79 6*	*70-130*			
Calibration Check (EE50205-CCV1)				Prepared & Analyzed 05/02/05						
Gasoline Range Organics C6-C12	428		mg/kg	500		85 6	80-120			
Diesel Range Organics >C12-C35	520		"	500		104	80-120			
Total Hydrocarbon C6-C35	948		"	1000		94 8	80-120			
Surrogate 1-Chlorooctane	*46 4*		"	*50 0*		*92 8*	*70-130*			
Surrogate 1-Chlorooctadecane	*38 2*		"	*50 0*		*76 4*	*70-130*			

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE50205 - Solvent Extraction (GC)										
Matrix Spike (EE50205-MS1)	**Source: 5E02002-01**			Prepared & Analyzed 05/02/05						
Gasoline Range Organics C6-C12	411	10 0	mg/kg dry	503	ND	81 7	75-125			
Diesel Range Organics >C12-C35	545	10.0	"	503	ND	108	75-125			
Total Hydrocarbon C6-C35	956	10 0	"	1010	ND	94 7	75-125			
Surrogate 1-Chlorooctane	*40 7*		*mg/kg*	*50 0*		*81 4*	*70-130*			
Surrogate 1-Chlorooctadecane	*36 1*		*"*	*50 0*		*72 2*	*70-130*			
Matrix Spike Dup (EE50205-MSD1)	**Source: 5E02002-01**			Prepared & Analyzed. 05/02/05						
Gasoline Range Organics C6-C12	495	10 0	mg/kg dry	503	ND	98 4	75-125	18 5	20	
Diesel Range Organics >C12-C35	523	10 0	"	503	ND	104	75-125	4 12	20	
Total Hydrocarbon C6-C35	1020	10 0	"	1010	ND	101	75-125	6.48	20	
Surrogate 1-Chlorooctane	*42 0*		*mg/kg*	*50 0*		*84 0*	*70-130*			
Surrogate 1-Chlorooctadecane	*35 8*		*"*	*50 0*		*71 6*	*70-130*			
Batch EE50306 - EPA 5030C (GC)										
Blank (EE50306-BLK1)				Prepared & Analyzed 05/03/05						
Benzene	ND	0 0250	mg/kg wet							
Toluene	ND	0 0250	"							
Ethylbenzene	ND	0 0250	"							
Xylene (p/m)	ND	0 0250	"							
Xylene (o)	ND	0 0250	"							
Surrogate a,a,a-Trifluorotoluene	*87 8*		*ug/kg*	*100*		*87 8*	*80-120*			
Surrogate 4-Bromofluorobenzene	*94 7*		*"*	*100*		*94 7*	*80-120*			
LCS (EE50306-BS1)				Prepared & Analyzed. 05/03/05						
Benzene	86 9		ug/kg	100		86 9	80-120			
Toluene	90 9		"	100		90 9	80-120			
Ethylbenzene	91 8		"	100		91 8	80-120			
Xylene (p/m)	208		"	200		104	80-120			
Xylene (o)	99 3		"	100		99 3	80-120			
Surrogate a,a,a-Trifluorotoluene	*104*		*"*	*100*		*104*	*80-120*			
Surrogate 4-Bromofluorobenzene	*117*		*"*	*100*		*117*	*80-120*			

Organics by GC - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE50306 - EPA 5030C (GC)										
Calibration Check (EE50306-CCV1)				Prepared 05/03/05 Analyzed 05/04/05						
Benzene	86 1		ug/kg	100		86 1	80-120			
Toluene	87.3		"	100		87 3	80-120			
Ethylbenzene	82 6		"	100		82 6	80-120			
Xylene (p/m)	178		"	200		89.0	80-120			
Xylene (o)	85 5		"	100		85 5	80-120			
Surrogate a,a,a-Trifluorotoluene	*99 5*		"	*100*		*99 5*	*80-120*			
Surrogate 4-Bromofluorobenzene	*88 0*		"	*100*		*88 0*	*80-120*			
Matrix Spike (EE50306-MS1)	**Source: 5D29014-02**			Prepared. 05/03/05 Analyzed 05/04/05						
Benzene	90 6		ug/kg	100	ND	90 6	80-120			
Toluene	93 5		"	100	ND	93 5	80-120			
Ethylbenzene	93 6		"	100	ND	93 6	80-120			
Xylene (p/m)	211		"	200	ND	106	80-120			
Xylene (o)	101		"	100	ND	101	80-120			
Surrogate a,a,a-Trifluorotoluene	*101*		"	*100*		*101*	*80-120*			
Surrogate 4-Bromofluorobenzene	*106*		"	*100*		*106*	*80-120*			
Matrix Spike Dup (EE50306-MSD1)	**Source: 5D29014-02**			Prepared & Analyzed. 05/03/05						
Benzene	83 2		ug/kg	100	ND	83 2	80-120	8 52	20	
Toluene	85 0		"	100	ND	85 0	80-120	9 52	20	
Ethylbenzene	82 2		"	100	ND	82 2	80-120	13 0	20	
Xylene (p/m)	182		"	200	ND	91 0	80-120	15 2	20	
Xylene (o)	88.5		"	100	ND	88 5	80-120	13 2	20	
Surrogate a,a,a-Trifluorotoluene	*96 0*		"	*100*		*96 0*	*80-120*			
Surrogate 4-Bromofluorobenzene	*113*		"	*100*		*113*	*80-120*			

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE50206 - General Preparation (Prep)										
Blank (EE50206-BLK1)				Prepared 04/29/05 Analyzed 05/02/05						
% Moisture	ND	0 1	%							
Duplicate (EE50206-DUP1)		**Source: 5D29001-01**		Prepared 04/29/05 Analyzed 05/02/05						
% Moisture	6 3	0 1	%		6 2			1 60	20	
Batch EE50301 - General Preparation (Prep)										
Blank (EE50301-BLK1)				Prepared 05/02/05 Analyzed. 05/03/05						
% Moisture	ND	0 1	%							
Duplicate (EE50301-DUP1)		**Source: 5E02002-01**		Prepared. 05/02/05 Analyzed 05/03/05						
% Moisture	0 5	0 1	%		0 5			0 00	20	
Batch EE50303 - Water Extraction										
Blank (EE50303-BLK1)				Prepared & Analyzed 05/02/05						
Chloride	ND	0 500	mg/kg							
LCS (EE50303-BS1)				Prepared & Analyzed 05/02/05						
Chloride	9 94		mg/L	10 0		99 4	80-120			
Calibration Check (EE50303-CCV1)				Prepared & Analyzed 05/02/05						
Chloride	10 9		mg/L	10 0		109	80-120			
Duplicate (EE50303-DUP1)		**Source: 5D28007-04**		Prepared & Analyzed 05/02/05						
Chloride	71.7	5.00	mg/kg		72 3			0 833	20	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE50409 - Water Extraction										
Blank (EE50409-BLK1)				Prepared & Analyzed. 05/03/05						
Chloride	ND	0 500	mg/kg							
LCS (EE50409-BS1)				Prepared & Analyzed. 05/03/05						
Chloride	10 3		mg/L	10 0		103	80-120			
Calibration Check (EE50409-CCV1)				Prepared & Analyzed 05/03/05						
Chloride	10 5		mg/L	10 0		105	80-120			
Duplicate (EE50409-DUP1)	**Source: 5D29014-02**			Prepared & Analyzed 05/03/05						
Chloride	217	10 0	mg/kg		241			10 5	20	

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect
J	Detected but below the Reporting Limit, therefore, result is an estimated concentration (CLP J-Flag)
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By: Raland K Tuttle Date: 5/5/2005

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

Environmental Labs of Texas

Chain of Custody Form

12600 West I-20 East, Odessa, TX 79763
(915) 563-1800 FAX: (915) 563-1713

Company Name	Environmental Plus, Inc.
EPI Project Manager	Iain Olness
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	505-394-3481 / 505-394-2601
Client Company	Conoco Phillips
Facility Name	State E Lease
Project Reference	150010
EPI Sampler Name	Manuel Gonzales

Bill To

ConocoPhillips

Attn: John Abney
1410 West County Road,
Hobbs, NM 88240

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	MATRIX: WASTEWATER	MATRIX: SOIL	MATRIX: CRUDE OIL	MATRIX: SLUDGE	MATRIX: OTHER:	PRESERV.: ACID/BASE	PRESERV.: ICE/COOL	PRESERV.: OTHER	SAMPLING: DATE	SAMPLING: TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO_4^{-2})	pH	TCLP	OTHER >>>	PAH
5D29014																						
- 01	BH-1 (surface)	G	1			X					X		19-Apr	9:27	X	X	X					
- 02	BH-1 (5')	G	1			X					X		19-Apr	9:32	X	X	X	SEE REMARKS				
- 03	BH-1 (10')	G	1			X					X		19-Apr	11:36	X	X	X					
- 04	BH-1 (15')	G	1			X					X		19-Apr	12:58	X	X	X					
- 05	BH-1 (20')	G	1			X					X		19-Apr	13:38	X	X	X					
- 06	BH-1 (25')	G	1			X					X		19-Apr	15:30	X	X	X					
- 07	BH-1 (30')	G	1			X					X		26-Apr	8:40	X	X	X					
- 08	BH-1 (35')	G	1			X					X		26-Apr	9:37	X	X	X					
- 09	BH-1 (40')	G	1			X					X		26-Apr	10:20	X	X	X					
- 10	BH-1 (45')	G	1			X					X		26-Apr	11:27	X	X	X					

Sampler Relinquished: Iain Olness — Date: 4/29/05 — Time: 0835 — Received By:

Relinquished by: — Date: 4-29-05 — Time: 2:10 — Received By: (lab staff) Jessica McMurray

Delivered by:

Sample Cool & Intact: (Yes) No

Checked By: JMM

E-mail results to: iolness@hotmail.com

REMARKS: Only analyze subsequent samples from each soil boring if analytes are detected in previous sample ANY QUESTIONS, PLEASE CALL IAIN.

* 4oz glass on ice w/labels on containers w/seals on bags (3) 4.5°C

Environmental Labs of Texas

Chain of Custody Form

12600 West I-20 East, Odessa, TX 79763
(915) 563-1800 FAX: (915) 563-1713

Company Name	Environmental Plus, Inc.
EPI Project Manager	Iain Olness
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	505-394-3481 / 505-394-2601
Client Company	Conoco Phillips
Facility Name	State E Lease
Project Reference	150010
EPI Sampler Name	Manuel Gonzales

Bill To

ConocoPhillips

Attn: John Abney
1410 West County Road,
Hobbs, NM 88240

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	MATRIX: WASTEWATER	MATRIX: SOIL	MATRIX: CRUDE OIL	MATRIX: SLUDGE	MATRIX: OTHER:	PRESERV.: ACID/BASE	PRESERV.: ICE/COOL	PRESERV.: OTHER	SAMPLING: DATE	SAMPLING: TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO_4^{-2})	pH	TCLP	OTHER >>>	PAH
5D29014																						
-11	BH-1 (50')	G	1			X					X		26-Apr	12:44	X	X	X	SEE REMARKS				
-12	BH-1 (55')	G	1			X					X		26-Apr	14:59	X	X	X					
-13	BH-1 (60')	G	1			X					X		26-Apr	16:10	X	X	X					
-14	BH-1 (65')	G	1			X					X		27-Apr	9:00	X	X	X					
-15	BH-2 (surface)	G	1			X					X		27-Apr	10:15	X	X	X					
-16	BH-2 (5')	G	1			X					X		27-Apr	10:39	X	X	X	SEE REMARKS				
-17	BH-2 (10')	G	1			X					X		27-Apr	11:06	X	X	X					
-18	BH-2 (15')	G	1			X					X		27-Apr	11:18	X	X	X					
-19	BH-2 (20')	G	1			X					X		27-Apr	11:45	X	X	X					
-20	BH-2 (25')	G	1			X					X		27-Apr	12:31	X	X	X					

Sampler Relinquished: Date 4/29/05 Time 8535 Received By:

Relinquished by: Date 4/29/05 Time 2:10 Received By: (lab staff)

Delivered by: Sample Cool & Intact (Yes) No Checked By: JMM

E-mail results to: iolness@hotmail.com

REMARKS: Only analyze subsequent samples from each soil boring if analytes are detected in previous sample. ANY QUESTIONS, PLEASE CALL IAIN.

* see pg 1

Environmental Labs of Texas

Chain of Custody Form

12600 West I-20 East, Odessa, TX 79763
(915) 563-1800 FAX: (915) 563-1713

Company Name	Environmental Plus, Inc.
EPI Project Manager	Iain Olness
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	505-394-3481 / 505-394-2601
Client Company	Conoco Phillips
Facility Name	State E Lease
Project Reference	150010
EPI Sampler Name	Manuel Gonzales

Bill To

ConocoPhillips

Attn: John Abney
1410 West County Road,
Hobbs, NM 88240

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	MATRIX: WASTEWATER	MATRIX: SOIL	MATRIX: CRUDE OIL	MATRIX: SLUDGE	MATRIX: OTHER:	PRESERV.: ACID/BASE	PRESERV.: ICE/COOL	PRESERV.: OTHER	SAMPLING: DATE	SAMPLING: TIME	ANALYSIS REQUEST: BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO_4^{-2})	pH	TCLP	OTHER >>>	PAH
5D29014																						
21	BH-2 (30')	G	1			X					X		27-Apr	12:44	X	X	X	SEE REMARKS				
22	BH-2 (35')	G	1			X					X		27-Apr	14:59	X	X	X	↓				
23	Background	G	1			X					X		19-Apr				X					
4																						
5																						
6																						
7																						
8																						
9																						
10																						

Sampler Relinquished: Iain Olness — Date: 4/29/05 Time: 0835 — Received By:

Relinquished by: — Date: 04-29-05 Time: 1410 — Received By: (lab staff) Jaime McMurrey

Delivered by

Sample Cool & Intact: (Yes) No

Checked By: JMM

E-mail results to: iolness@hotmail.com

REMARKS: Only analyze subsequent samples from each soil boring if analytes are detected in previous sample. Analyze the background sample for chlorides. ANY QUESTIONS, PLEASE CALL IAIN.

* see pg 1

Environmental Lab of Texas
Variance / Corrective Action Report – Sample Log-In

Client: EPI

Date/Time: 04-29-05 @ 1410

Order #: 5D29014

Initials: JMM

Sample Receipt Checklist

Temperature of container/cooler?	(Yes)	No	4.5 C
Shipping container/cooler in good condition?	(Yes)	No	
Custody Seals intact on shipping container/cooler?	Yes	No	(Not present)
Custody Seals intact on sample bottles? Seals on bags of ice.	(Yes)	No	Not present
Chain of custody present?	(Yes)	No	
Sample Instructions complete on Chain of Custody?	(Yes)	No	
Chain of Custody signed when relinquished and received?	(Yes)	No	
Chain of custody agrees with sample label(s)	(Yes)	No	
Container labels legible and intact?	(Yes)	No	
Sample Matrix and properties same as on chain of custody?	(Yes)	No	
Samples in proper container/bottle?	(Yes)	No	
Samples properly preserved?	(Yes)	No	
Sample bottles intact?	(Yes)	No	
Preservations documented on Chain of Custody?	(Yes)	No	
Containers documented on Chain of Custody?	(Yes)	No	
Sufficient sample amount for indicated test?	(Yes)	No	
All samples received within sufficient hold time?	(Yes)	No	
VOC samples have zero headspace?	(Yes)	No	Not Applicable

Other observations:

_____

_____

_____

Variance Documentation:

Contact Person: - _____ Date/Time: _____ Contacted by: _____

Regarding:

_____

_____

_____

Corrective Action Taken:

_____

_____

_____

_____

_____

_____

_____

_____

CARDINAL LABORATORIES

PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603
PHONE (505) 393-2326 · 101 E. MARLAND · HOBBS, NM 88240

ANALYTICAL RESULTS FOR
ENVIRONMENTAL PLUS, INC.
ATTN: DAVID P. DUNCAN
P.O. BOX 1558
EUNICE, NM 88231
FAX TO: (505) 394-2406

Receiving Date: 04/25/07
Reporting Date: 04/26/07
Project Owner: CONOCO PHILLIPS (150010)
Project Name: STATE "E"
Project Location: NOT GIVEN

Analysis Date: 04/26/07
Sampling Date: 04/25/07
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: HM

LAB NUMBER	SAMPLE ID	Cl^- (mg/Kg)
H12512-1	SW-1 (3')	464
H12512-2	SW-2 (3')	176
H12512-3	SW-3 (3')	64
H12512-4	SW-4 (3')	< 16
H12512-5	SW-5 (3')	16
H12512-6	SW-6 (3')	272
H12512-7	SW-7 (3')	32
H12512-8	SW-8 (3')	32
H12512-9	SW-9 (3')	352
H12512-10	SW-10 (3')	848
H12512-11	BH-1 (5')	640
H12512-12	BH-2 (5')	1488
H12512-13	BH-3 (5')	224
H12512-14	BH-4 (5')	448
Quality Control		490
True Value QC		500
% Recovery		98
Relative Percent Difference		1.0

METHOD: Standard Methods	4500-ClB

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

Chemist

04-26-07
Date

H12512

Cardinal Laboratories Inc.

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

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

Company Name	Environmental Plus, Inc.
EPI Project Manager	David P. Duncan
Billing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	505-394-3481 / 505-394-2601
Client Company	ConocoPhillips
Facility Name	State "E"
Project Reference	150010
EPI Sampler Name	Danny Deaton

Bill To

ConocoPhillips

ATTN: Jesse Sosa
1410 North West County Road
Hobbs, NM 88240

ANALYSIS REQUEST

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	MATRIX: WASTEWATER	MATRIX: SOIL	MATRIX: CRUDE OIL	MATRIX: SLUDGE	MATRIX: OTHER:	PRESERV.: ACID/BASE	PRESERV.: ICE/COOL	PRESERV.: OTHER	SAMPLING: DATE	SAMPLING: TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl^-)	SULFATES ($SO_4^{=}$)	pH	TCLP	OTHER >>>
H12512 – 1	SW-1 (3')	G				X					X		25-Apr-07	9:15			X				
– 2	SW-2 (3')	G				X					X		25-Apr-07	9:20			X				
– 3	SW-3 (3')	G				X					X		25-Apr-07	9:25			X				
– 4	SW-4 (3')	G				X					X		25-Apr-07	9:30			X				
– 5	SW-5 (3')	G				X					X		25-Apr-07	9:35			X				
– 6	SW-6 (3')	G				X					X		25-Apr-07	9:40			X				
– 7	SW-7 (3')	G				X					X		25-Apr-07	9:45			X				
– 8	SW-8 (3')	G				X					X		25-Apr-07	9:50			X				
– 9	SW-9 (3')	G				X					X		25-Apr-07	9:55			X				
–10	SW-10 (3')	G				X					X		25-Apr-07	10:00			X				

Sampler Relinquished: David P. Duncan
Relinquished by: Jaron Boone
Delivered by:

4/25/2007
Time 12:30
Date 4.25
Time 154

Received By: Jaron Boone
Received By: (lab staff)

Sample Cool & Intact
Yes No

Checked By:

Email results to David P. Duncan at dduncan@envplus.net

REMARKS: RUSH ORDER Email results to David P. Duncan at dduncan@envplus.net or via fax at (505) 394-2601

Cardinal Laboratories Inc.

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

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

Company Name	Environmental Plus, Inc.
EPI Project Manager	David P. Duncan
Billing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	505-394-3481 / 505-394-2601
Client Company	ConocoPhillips
Facility Name	State "E"
Project Reference	150010
EPI Sampler Name	Danny Deaton

Bill To

ConocoPhillips
ATTN: Jesse Sosa
1410 North West County Road
Hobbs, NM 88240

ANALYSIS REQUEST

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	MATRIX: WASTEWATER	MATRIX: SOIL	MATRIX: CRUDE OIL	MATRIX: SLUDGE	MATRIX: OTHER:	PRESERV.: ACID/BASE	PRESERV.: ICE/COOL	PRESERV.: OTHER	SAMPLING: DATE	SAMPLING: TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl^-)	SULFATES (SO_4^{-2})	pH	TCLP	OTHER >>>
H12512-1 1	BH-1 (5')	G				X					X		25-Apr-07	10:05			X				
-1 2	BH-2 (5')	G				X					X		25-Apr-07	10:10			X				
-1 3	BH-3 (5')	G				X					X		25-Apr-07	10:15			X				
-1 4	BH-4 (5')	G				X					X		25-Apr-07	10:20			X				
5																					
6																					
7																					
8																					
9																					
10																					

Sampler Relinquished: [signature] 4/25/2007 Time 12:30 Received By: [signature]

Relinquished by: [signature] Date 4-25-07 Time 1:51 Received By: (lab staff) [signature]

Delivered by:

Sample Cool & Intact: (Yes) No

Checked By: [signature]

Email results to David P. Duncan at dduncan@envplus.net

REMARKS: RUSH ORDER Email results to David P. Duncan at dduncan@envplus.net or via fax at (505) 394-2601

CARDINAL LABORATORIES

PHONE (325) 673-7001 · 2111 BEECHWOOD · ABILENE, TX 79603
PHONE (505) 393-2326 · 101 E. MARLAND · HOBBS, NM 88240

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

Receiving Date: 04/27/07
Reporting Date: 04/27/07
Project Owner: CONOCO PHILLIPS (150010)
Project Name: STATE "E"
Project Location: NOT GIVEN

Analysis Date: 04/27/07
Sampling Date: 04/27/07
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: NF
Analyzed By: HM

LAB NUMBER	SAMPLE ID	Cl^- (mg/Kg)
H12522-1	BH-1B (6')	576
H12522-2	BH-2B (6')	928
H12522-3	SW-1B (3')	80
H12522-4	SW-9B (3')	16
H12522-5	SW-10B (3')	32
Quality Control		490
True Value QC		500
% Recovery		98
Relative Percent Difference		0.0

METHOD: Standard Methods	4500-Cl^-B

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

Chemist

04-27-07
Date

H12522

Cardinal Laboratories Inc.

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

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

Company Name	Environmental Plus, Inc.
EPI Project Manager	David P. Duncan
Billing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	505-394-3481 / 505-394-2601
Client Company	ConocoPhillips
Facility Name	State "E"
Project Reference	150010
EPI Sampler Name	Eddie Gaytan

Bill To

ConocoPhillips
ATTN: Jesse Sosa
1410 North West County Road
Hobbs, NM 88240

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	MATRIX: WASTEWATER	MATRIX: SOIL	MATRIX: CRUDE OIL	MATRIX: SLUDGE	MATRIX: OTHER:	PRESERV.: ACID/BASE	PRESERV.: ICE/COOL	PRESERV.: OTHER	SAMPLING: DATE	SAMPLING: TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO_4^{2-})	pH	TCLP	OTHER >>>
H12522- 1	BH-1B (6')	G				X					X		27-Apr-07	11:57			X				
- 2	BH-2B (6')	G				X					X		27-Apr-07	11:55			X				
- 3	SW-1B (3')	G				X					X		27-Apr-07	12:00			X				
- 4	SW-9B (3')	G				X					X		27-Apr-07	12:10			X				
- 5	SW-10B (3')	G				X					X		27-Apr-07	12:05			X				
6																					
7																					
8																					
9																					
10																					

ANALYSIS REQUEST

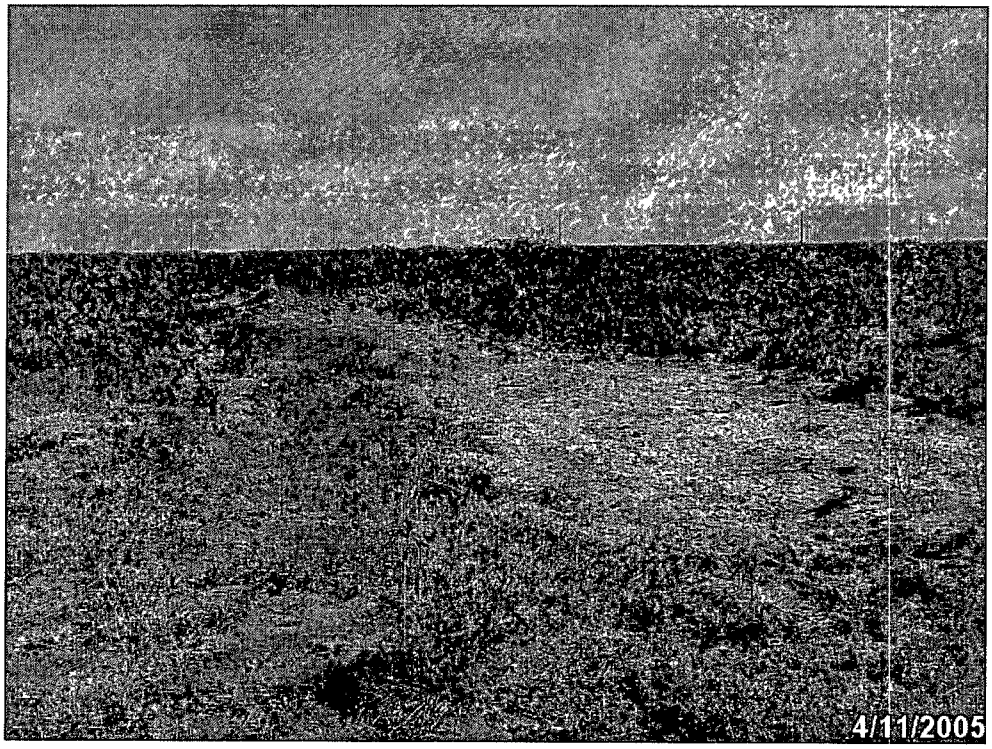
Sampler Relinquished:	4/27/2007	Received By:	Email results to David P. Duncan at dduncan@envplus.net
Relinquished by:	Time 13:25	Received By: (lab staff)	REMARKS: RUSH ORDER Email results to David P. Duncan at dduncan@envplus.net or via fax at (505) 394-2601
Delivered by:	Date 4/27/07 Time 2:00PM	Sample Cool & Intact (Yes) No	Checked By:

5x CT soil x 25 → 125
W

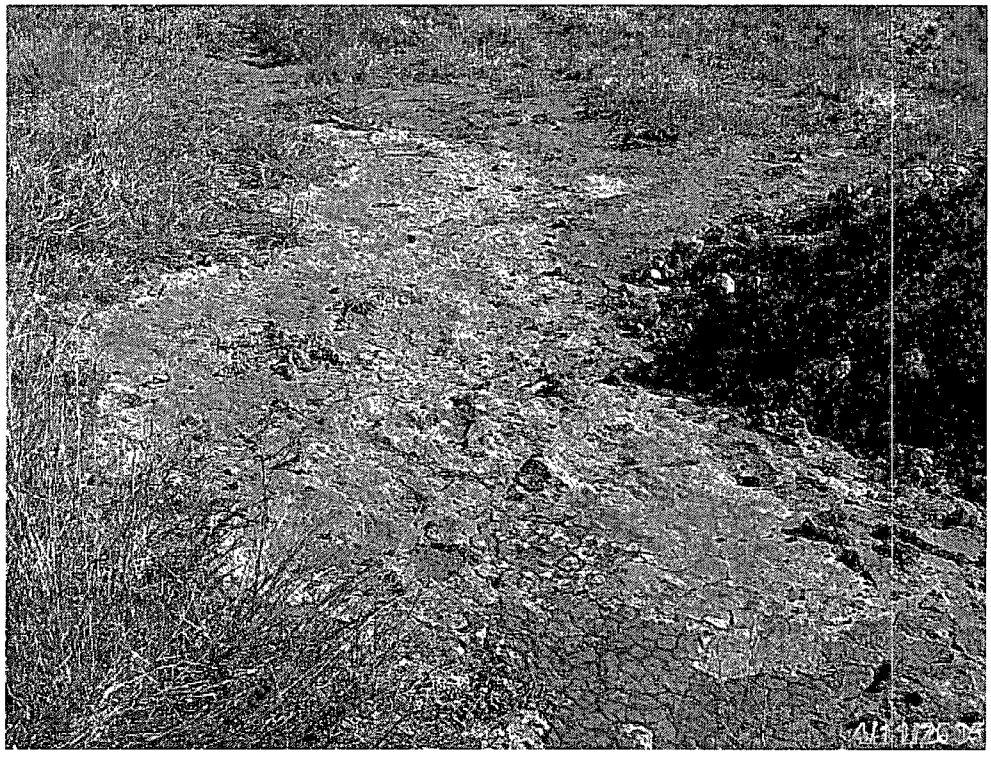
APPENDIX II

PROJECT PHOTOGRAPHS

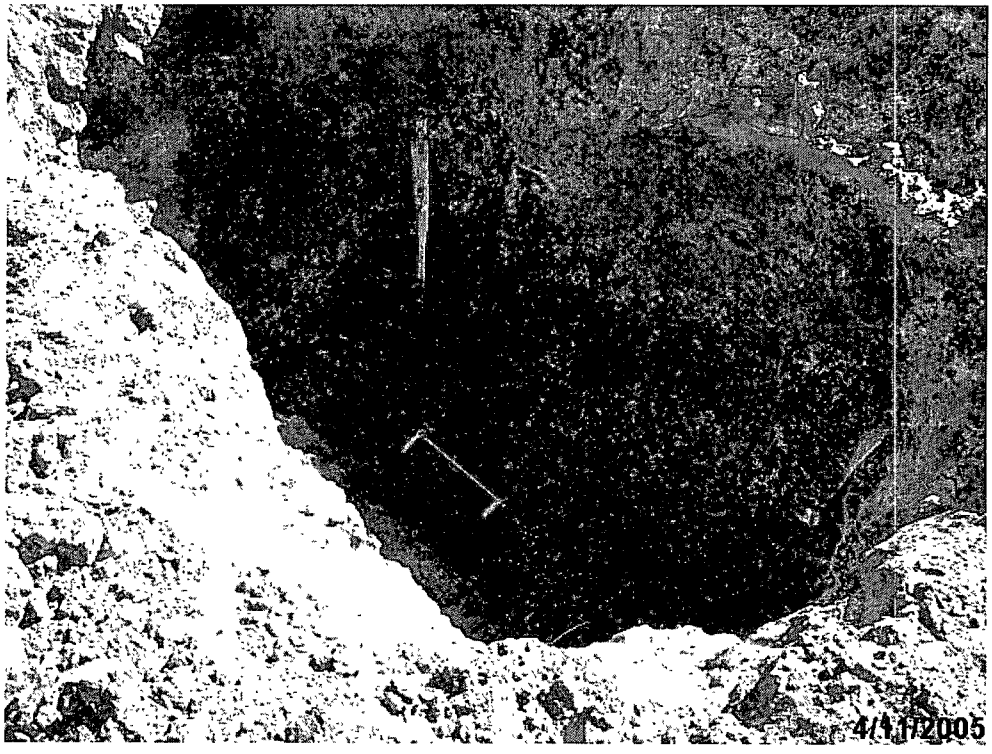
Photograph #1 – Produced water pipeline ROW marker



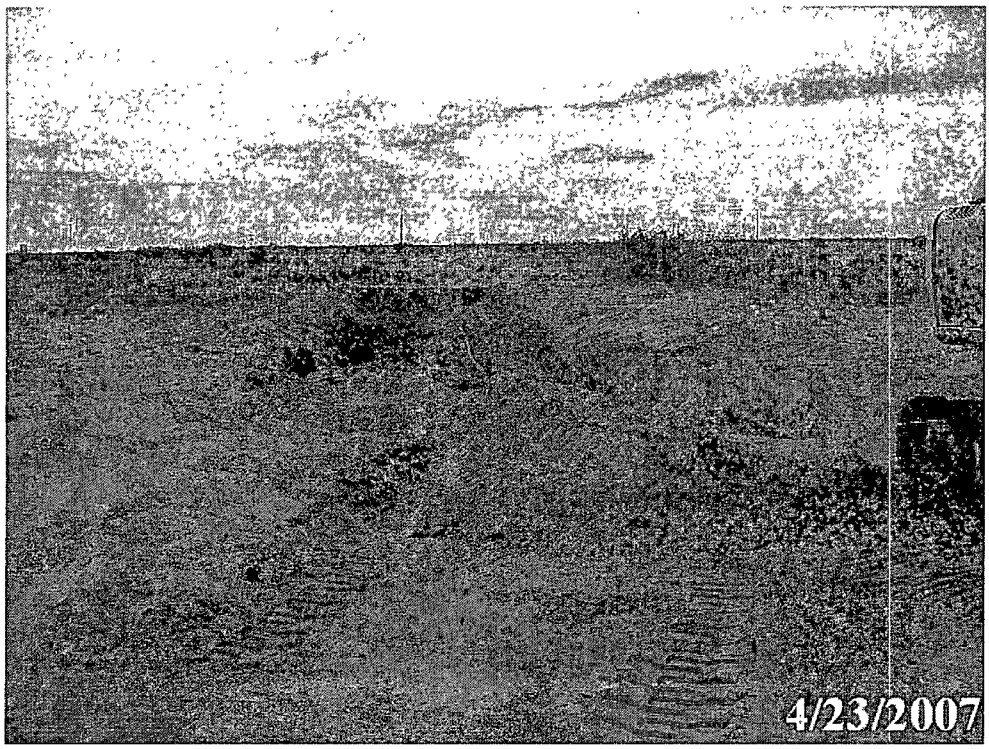
Photograph #2 - Looking north at impacted area. Stained area is contaminated soil



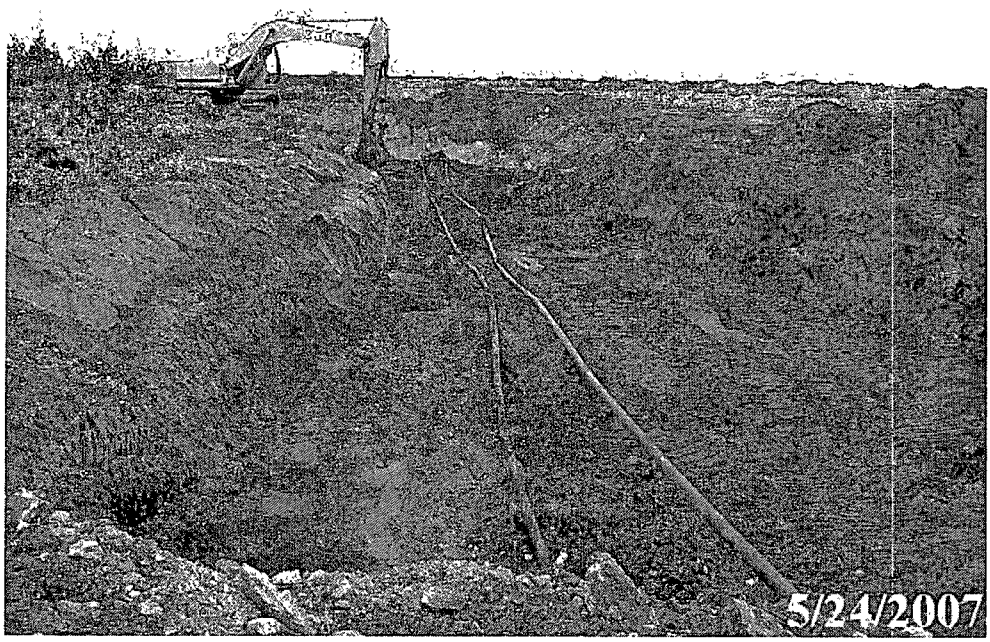
Photograph #3 - Looking north at impacted area and soil excavated to repair the ruptured pipeline



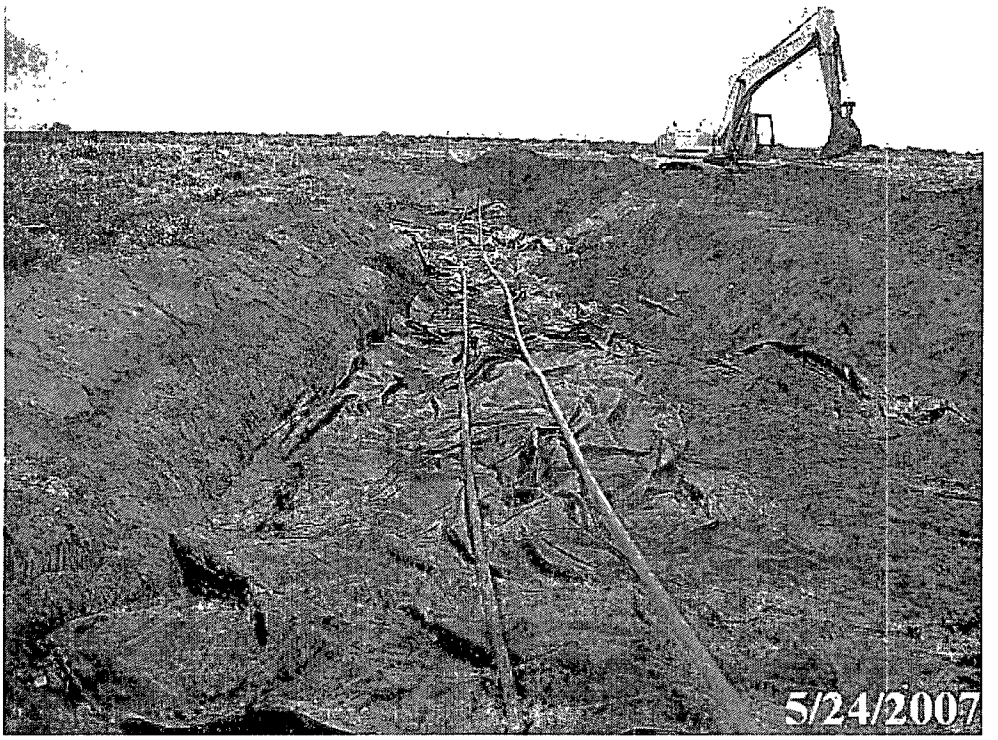
Photograph #4- Excavated area at point of release and dresser repair clamp



Photograph #5 – Excavation area



Photograph #6 – Backfilling excavation area. Preparing for installation of liner.



Photograph #7 – Installation of liner and backfilling of excavation

Photograph #8 – Remediated site

Photograph #9 – Remediated site reseeded

Photograph #10 – Remediated site reseeded

APPENDIX III

SOIL BORING LOGS

Log Of Test Borings

ENVIRONMENTAL PLUS, INC.
CONSULTING AND
REMEDIAL CONSTRUCTION
EUNICE, NEW MEXICO
505-394-3481

Project Number: 150010

Project Name: ConocoPhillips State E Lease

Location: UL-I, Section 20, Township 22 South, Range 36 East

Boring Number: SB-1 | Surface Elevation: 3,536-feet amsl

Start Date: 04-19-05 Time: 09:27

Completion Date: 04-27-05 Time: 09:00

Time	Sample Type	Recovery (inches)	Moisture	PID Readings (ppm)	Chloride Analysis (mg/Kg)	U.S.C.S. Symbol	Depth (feet)	Description
0927	SS			6.3	12,000		Topsoil	Topsoil SAND
0932	SS			0.0	480		5	5' CLAY, Red
1136	SS			0.0	400		10	10' CALICHE, Sand
1258	SS			0.0	560		15	15' CALICHE, Sand
1338	SS			0.0	720		20	20' CALICHE, Sand
1530	SS			0.0	720		25	25' SAND
0840	SS			0.0	640		30	30' SAND
0937	SS			0.0	560		35	35' SAND

Log Of Test Borings

ENVIRONMENTAL PLUS, INC.
CONSULTING AND
REMEDIAL CONSTRUCTION
EUNICE, NEW MEXICO
505-394-3481

Project Number: 150010

Project Name: ConocoPhillips State E Lease

Location: UL-I, Section 20, Township 22 South, Range 36 East

Boring Number: SB-1 | Surface Elevation: 3,536-feet amsl

Start Date: 04-19-05 Time: 09:27

Completion Date: 04-27-05 Time: 09:00

Time	Sample Type	Recovery (inches)	Moisture	PID Readings (ppm)	Chloride Analysis (mg/Kg)	U.S.C.S. Symbol	Depth (feet)	Description
1020	SS			0.0	480		40	40' SAND
1127	SS			0.0	400		45	45' SAND
1244	SS			0.0	480		50	50' SAND
1459	SS			0.0	480		55	55' SAND
1610	SS			0.0	800		60	60' SAND
								65' SAND
0900	SS			0.0	1,200		65	End of Soil Boring at 65' bgs

Water Level Measurements (feet)

Date	Time	Sample Depth	Casing Depth	Cave-in Depth	Water Level
-	-	-	-	-	-
-	-	-	-	-	-

Drilling Method: HSA 3.5" ID

Backfill Method: Bentonite

Field Representative: JR

Log Of Test Borings

ENVIRONMENTAL PLUS, INC.
CONSULTING AND
REMEDIAL CONSTRUCTION
EUNICE, NEW MEXICO
505-394-3481

Project Number: 150010

Project Name: ConocoPhillips State E Lease

Location: UL-I, Section 20, Township 22 South, Range 36 East

Boring Number: SB-2 | Surface Elevation: 3,536-feet amsl

Start Date: 04-27-05 Time: 10:15

Completion Date: 04-27-05 Time: 15:02

Time	Sample Type	Recovery (inches)	Moisture	PID Readings (ppm)	Chloride Analysis (mg/Kg)	U.S.C.S. Symbol	Depth (feet)	Description
1015	SS			4.9	12,000		Topsoil	Topsoil Oily Ground Soil
1039	SS			0.0	320		5	5' CLAY, Red
1106	SS			0.0	560		10	10' CALICHE, Clay
1118	SS			0.0	800		15	15' SAND
1145	SS			0.0	560		20	20' SAND
1231	SS			0.0	560		25	25' SAND
1327	SS			0.0	560		30	30' SAND
1502	SS			0.0	560		35	35' SAND

Log Of Test Borings

(NOTE - Page 2 of 2)

ENVIRONMENTAL PLUS, INC.
CONSULTING AND
REMEDIAL CONSTRUCTION
EUNICE, NEW MEXICO
505-394-3481

Project Number: 150010

Project Name: ConocoPhillips State E Lease

Location: UL-I, Section 20, Township 22 South, Range 36 East

Boring Number: SB-2 | Surface Elevation: 3,536-feet amsl

Start Date: 04-27-05 Time: 10:15

Completion Date: 04-27-05 Time: 15:02

Time	Sample Type	Recovery (inches)	Moisture	PID Readings (ppm)	Chloride Analysis (mg/Kg)	U.S.C.S. Symbol	Depth (feet)	Description
								35' SAND
								End of Soil Boring at 35' bgs
							40	
							45	
							50	
							55	
							60	
							65	

Water Level Measurements (feet)

Date	Time	Sample Depth	Casing Depth	Cave-in Depth	Water Level
-	-	-	-	-	-
-	-	-	-	-	-

Drilling Method: HSA 3.5" ID

Backfill Method: Bentonite

Field Representative: JR

APPENDIX IV

COPY OF INITIAL AND FINAL NMOCD FORM C-141

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 October 10, 2003

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 ConocoPhillips Company	Contact John Abney
Address 4001 Penbrook Street Odessa, TX 79762	Telephone No. (505)391-3128
Facility Name State E	Facility Type Water Transfer Line

Surface Owner Lowell Cypert	Mineral Owner State of NM	Lease No. B-1536

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
L	21	22S	36E					Lea

Latitude 32 22.519N Longitude 103 16.715W

WTF 300'

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 88 bbls / Volume Recovered 0
Source of Release Buried 3" Poly Line	Date and Hour of Occurrence 07/05 / Date and Hour of Discovery 4/7/05 8am
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Sylvia Dickey
By Whom? Stanley Moran	Date and Hour 4/07/05 2:30 pm
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
One of the welds in the poly line was not holding after the line was treated with acid. The line was shut in dug up and a dresser sleeve was placed on the line until the line can be repaired properly.

Describe Area Affected and Cleanup Action Taken.*
The affected area is 15' X 105'. There was no fluid recovered the site is being delinated to determine the necessary clean up procedures.

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: John Abney	OIL CONSERVATION DIVISION
Printed Name: John Abney	Approved by District Supervisor: Ray Lawrence
Title: SHE&R Specialist	Approval Date: 3.23.07 / Expiration Date: 6.23.07
E-mail Address: john.h.abney@conocophillips.com	Conditions of Approval: / Attached ☐
Date: 04/25/2005 Phone: (505)391-3128	

* Attach Additional Sheets If Necessary

Facility - fPAC0708544895
Incident - nPAC0708544967
application - pPAC0708545089

RP#1183

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 October 10, 2003

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: ConocoPhillips Company	**Contact:** Jesse Sosa
Address: 1410 N.W. County Road	**Telephone No.:** (505) 391-3102
Facility Name: State E Water Transfer Line	**Facility Type:** Water Transfer Line

Surface Owner: Millard Deck Estate	**Mineral Owner:** State of New Mexico	**Lease No.:** B-1536

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	20	22S	36E					Lea

Latitude: N 32° 22' 31.75" **Longitude:** W 103° 16' 44.61"

RP-1183

NATURE OF RELEASE

Type of Release: Produced Water	**Volume of Release:** ~88 bbls	**Volume Recovered:** 0 bbls
Source of Release: 3" buried poly line	**Date and Hour of Occurrence:** April 7, 2005 @ 01:00 hrs	**Date and Hour of Discovery:** April 7, 2005 @ 08:00 hrs
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	**If YES, To Whom?** Sylvia Dickey	
By Whom?	**Date and Hour:** April 7, 2007 @ 13:30 hrs	
Was a Watercourse Reached? ☐ Yes ☒ No	**If YES, Volume Impacting the Watercourse:** Not Applicable	

Depth to water: ~250-ft bgs

If a Watercourse was Impacted, Describe Fully.* Not Applicable

Describe Cause of Problem and Remedial Action Taken.* One of the welds in the poly line was not holding after the line was treated with acid. The line was shut in, dug up and a dresser sleeve was placed on the line until the line can be prepared properly.

Describe Area Affected and Cleanup Action Taken.* Approximately 1,600 square-feet of surface area was impacted by the release. Impacted soil above NMOCD remedial threshold goals has been excavated and transported to Sundance Services, Inc. for disposal. Laboratory analyses confirmed removal of most soil impacted above NMOCD remedial threshold goals in sidewalls and bottom of the excavation. Residual chlorides in excavation bottom were isolated with installation of 20-mil polyethylene liner. Excavation was backfilled with clean topsoil and remediated area graded to allow natural drainage. Remediated area has been seeded with a blend preferred by the land owner

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:	OIL CONSERVATION DIVISION
Printed Name: Jesse Sosa	**Approved by District Supervisor:** ENVIROENGR
Title: HSER Lead	**Approval Date:** 7-19-07 **Expiration Date:** —
E-mail Address: Jesse.A.Sosa@conocophillips.com	**Conditions of Approval:** **Attached** ☐
Date: 7-18-07 **Phone:** (505) 391-3126	

* **Attach Additional Sheets If Necessary**

* RBC