

CLOSURE REPORT

MEYER B-4 #24

REF: 150005

COMPANY # 217817

UL-H (SE $\frac{1}{4}$ OF THE NE $\frac{1}{4}$) OF SECTION 4 T21S R36E

~9 MILES NORTHWEST OF EUNICE

LEA COUNTY, NEW MEXICO

LATITUDE: N 32° 30' 45.8"

LONGITUDE: W 103° 15' 51.0"

APRIL 2006

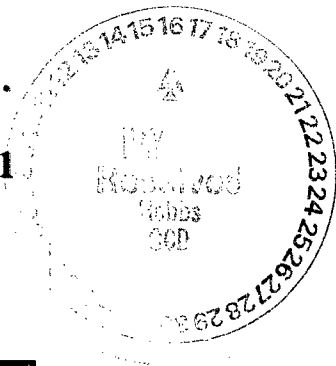
PREPARED BY:

ENVIRONMENTAL PLUS, INC.

2100 AVENUE O

EUNICE, NEW MEXICO 88231

PREPARED FOR:



ConocoPhillips

RP#

incident - NPAC 0614449797

application - p PAC 0614450099

LETTER OF TRANSMITTAL

ENVIRONMENTAL
PLUS, INC.



Date: May 15, 2006
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: C. John Coy, ConocoPhillips – Hobbs, NM; John Abney, ConocoPhillips – Hobbs, NM; Tim Walters, Millard Deck Estate – Landowner; File
Project #: 150005
Project Name: ConocoPhillips – Meyer B-4 #24
Subject: **Closure Report**

# of originals	# of copies	Description
	1	ConocoPhillips – Meyer B-4 #24 – Closure Report

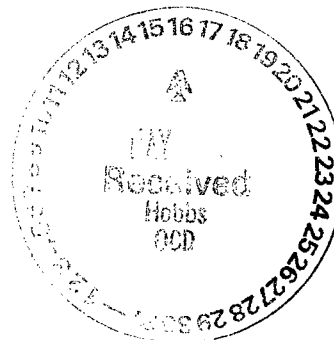
Remarks

Dear Mr. Johnson:

Enclosed is the Closure Report for the ConocoPhillips – Meyer B-4 #24. Should you have any questions or concerns, please feel free to contact Iain Olness or me at (505) 394-3481.

Sincerely,

Jason Stegemoller



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

Distribution List

ConocoPhillips-Meyer B-4 #24 (Ref. #150005)

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Millard Deck Estate, Attr: Tim Wolters	Landowner c/o Bank of America	--	P.O. Box 270 Midland, TX 79702	tim.wolters@bankofamerica.com
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STANDARD OF CARE

Closure Report

Meyer B-4 #24

Ref. # 150005

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:

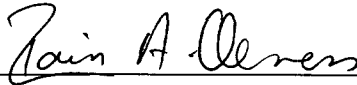


Jason Stegemoller, M.S.
Environmental Scientist

15 May 2006

Date

This report was reviewed by:



Iain A. Olness, P.G.
Technical Manager

15 May 2006

Date

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Project Synopsis

Site Specific:

- ◆ **Company Name:** ConocoPhillips
- ◆ **Facility Name:** Meyer B-4 #24
- ◆ **Project Reference** 150005
- ◆ **Company Contacts:** John Abney
- ◆ **Site Location:** WGS84 N32° 30' 45.8"; W103° 15' 51.0"
- ◆ **Legal Description:** Unit Letter H, (SE¼ of the NE¼), Section 4, T21S, R36E
- ◆ **General Location:** approximately 9-miles northwest of Eunice, New Mexico
- ◆ **Elevation:** 3,545-ft amsl **Depth to Ground Water:** >100-ft
- ◆ **Land Ownership:** Millard Deck Estate
- ◆ **EPI Personnel:** Project Consultant – Iain Olness
 Site Foreman – Sebastian Romero

Release Specific:

- ◆ **Product Released:** Oil and produced water
- ◆ **Volume Released:** ≈13-bbl reported **Volume Recovered:** None
- ◆ **Time of Occurrence:** 22-September-04 **Time of Discovery:** 24-September-04
- ◆ **Release Source:** 2" union; integrity lost due to partially plugged flow-line
- ◆ **Initial Surface Area Affected:** 660-ft²

Remediation Specific:

- ◆ **Final Vertical extent of contamination:** 8-ft bgs; Remaining depth to ground water: >100-ft
- ◆ **Water wells within 1,000-ft:** 0 **Surface water bodies within 1,000-ft:** 0
- ◆ **NMOCD Site Ranking Index:** 0 points (>100-ft to top of water table)
- ◆ **Remedial goals for Soil:** TPH – 5,000 mg/kg; BTEX – 50 mg/kg; Benzene – 10 mg/kg
- ◆ **Remedial guidelines for Soil:** Chloride – 250 mg/kg
- ◆ **RCRA Waste Classification:** Exempt
- ◆ **Remediation Option Selected:** a) Excavation of contaminated soil above NMOCD remedial goals; b) laboratory analyses to confirm removal of soil impacted of NMOCD remedial thresholds; c) place compacted clay barrier in excavation floor to isolate residual chloride impacted soil; d) backfill the excavation with clean soil.
- ◆ **Disposal Facility:** J & L Landfarm **Volume disposed of:** ~500-yd³
- ◆ **Project Completion Date:** December 14, 2005

1.0 Summary

This report addresses the site investigation and the proposed remediation of the ConocoPhillips Meyer B-4 #24 release site. In October 2004, Environmental Plus, Inc. (EPI) was retained by ConocoPhillips to delineate the vertical extent of impacted soil at the site due to a release of oil and produced water. This site is located on property owned by the Millard Deck Estate in Unit Letter H, (SE¼ of the NE¼), Section 4, T21S, R36E, approximately nine miles northwest of Eunice, Lea County, New Mexico at latitude N32° 30' 45.8" and longitude W103° 15' 51.0" (reference *Figures 1 and 2*). The initial C-141 Form submitted to the New Mexico Oil Conservation Division (NMOCD) on September 24, 2004 by ConocoPhillips, reports the release volume as approximately 13-barrels without any recovery. EPI performed GPS surveying, photography and characterization of the site on October 19, 2004. The release impacted approximately 660 square feet (ft²) of surface area (reference *Figure 3*).

Initial activities at the site consisted of delineating the vertical extent of contamination via a soil boring advanced on October 27, 2004 to a depth of approximately 10-feet below ground surface (bgs). Samples were collected at two, five and ten-feet bgs during the advancement of the soil boring for field and laboratory analyses. Field analyses indicated organic vapor concentrations decreased with depth, ranging from 228 parts per million (ppm) at 2-ft bgs to 74.8 ppm at 10-ft bgs. Laboratory analyses indicated total petroleum hydrocarbon (TPH) concentrations at 2-ft bgs were in excess of the NMOCD remedial thresholds for the site. Analyses of the remaining sampling intervals indicated TPH concentrations at 5 and 10-ft bgs and BTEX constituent concentrations at 10-ft bgs were below NMOCD remedial thresholds.

Based on delineation activities, remedial excavation commenced on March 14, 2005 and continued through March 17, 2005. The initial excavation consisted of approximately 325-cubic yards of impacted soil removed from a ~1,300-square feet excavation to a depth of ~6-ft bgs. Excavated impacted soil was transported to J & L Landfarm for treatment.

On March 17, 2005, soil samples were collected from the north, northeast, south and southwest excavation sidewalls and north and south excavation floor for field and laboratory analyses. Field analytical results indicated organic vapor concentrations ranged from 28.1 to 510 parts per million (ppm). Laboratory analytical results indicated chloride impacted soil in excess of the New Mexico Water Quality Control Commission (NMWQCC) groundwater standard remained in the excavation floor and hydrocarbon and chloride impacted soil remained in the south and southwest sidewalls (reference *Table 2*).

Based on field and laboratory analytical results, excavation of impacted soil in the floor and sidewalls resumed on April 26 and 27, 2005. The excavated area increased to the final limit of ~2,500 square feet to a maximum depth of 8-ft bgs. Approximately 180 cubic yards of excavated, impacted soil were transported to J & L Landfarm for treatment. On May 6, 2005, soil samples were collected from the south, southeast and southwest excavation sidewalls and the south excavation floor for laboratory analyses. Analytical results indicated TPH and BTEX constituent concentrations were below NMOCD remedial thresholds. However, chloride residuals in excess of the NMWQCC groundwater standard remained in the south excavation floor (reference *Table 2 and Figure 4*).

Soil samples were collected from the excavation floor on August 11, 2005 for field and laboratory analyses. Field analytical results indicated chloride concentrations ranged from 200 to 720 mg/Kg. Analytical results indicated chloride concentrations in the southern end of the excavation were in excess of the NMWQCC groundwater standard; however, analytical results for the remaining samples were below NMWQCC chloride groundwater standard.

To isolate residual chloride impacted soil, a one foot thick clay barrier was installed on December 12 and 13, 2005 in the excavation floor in a series of two 6-inch lifts. Analyses to verify compaction (i.e., compaction within 95% Proctor Density) were performed on December 13 and 14, 2005 by the engineering firm of Pettigrew and Associates. Upon verification of proper compaction, the excavation was backfilled on December 14, 2005 with clean soil purchased from the landowner and graded/contoured to allow natural drainage.

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

2.2 Ecological Description

The area is typical of the Upper Chihuahuan Desert Biome consisting primarily of hummocky sand hills covered with Harvard Shin Oak (*Quercus harvardi*) interspersed with Honey Mesquite (*Prosopis glandulosa*) along with typical desert grasses, flowering annuals and flowering perennials. Mammals represented, include Orrd's and Merriam's Kangaroo Rats, Deer Mouse, White Throated Wood Rat, Cottontail Rabbit, Black Tailed Jackrabbit, Mule Deer, Bobcat, Red Fox and Coyote. Reptiles, amphibians, and birds are numerous and typical of area. A survey of *Listed, Threatened, or Endangered Species* was not conducted.

2.3 Area Ground Water

The unconfined groundwater aquifer at this site is projected to be >140-ft bgs based on water depth data obtained from the New Mexico State Engineers Office data base.

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 (i.e., total petroleum hydrocarbons and benzene, toluene, ethylbenzene, and total xylenes) were determined based on the NMOCD Ranking Criteria as follows:

- ◆ *Depth to groundwater (i.e., distance from the lower most acceptable concentration to 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 zero points with the soil remedial goals highlighted in the Site Ranking table presented below.

1. Ground Water	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) = 0 + 0 + 0 = 0 points			
Total Site Ranking Score and Acceptable Remedial Goal Concentrations			
Parameter	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 may be substituted for a laboratory analysis of the benzene and BTEX concentration limits.

4.0 Remedial Investigation and Cleanup

The vertical extent of hydrocarbon contamination at the site was determined with the advancement of a soil boring within the perimeter of the release area associated with the point of release (POR) to a depth of 10-ft bgs on October 27, 2004. Soil samples were collected at 2, 5 and 10-feet bgs. A portion of each sample was placed in a laboratory provided container and set on ice for transport to an independent laboratory. Soil samples collected at 2 and 10-feet bgs were analyzed for TPH, BTEX constituent and chloride concentrations and the sample collected at 5-feet bgs was analyzed for TPH and chloride concentrations. The remaining portion of each sample was analyzed in the field for the presence of organic vapors utilizing an UltraRae PID equipped with a 9.8 eV lamp. Field analyses indicated organic vapor concentrations decreased with depth, ranging from 228 ppm at 2-ft bgs to 74.8 ppm at 10-ft bgs.

Laboratory analytical results indicated benzene concentrations in the samples collected at 2 and 10-feet bgs ranged from non-detectable (ND) at or above the laboratory method detection limits to 0.0821 mg/kg, below the NMOCD remedial threshold of 10 mg/kg. Reported BTEX constituents ranged ND to 29.3 mg/kg, below the NMOCD remedial threshold of 50 mg/kg. TPH concentrations in the sample collected at 2-feet bgs were reported at 16,930 mg/kg, in excess of the NMOCD remedial threshold of 5,000 mg/kg. TPH concentrations in the samples collected at 5 and 10-feet

bgs were reported to range from 89.8 to 604 mg/Kg. Chloride concentrations were reported to range from 23.1 to 237, below the New Mexico Water Quality Control Commission groundwater standard of 250 mg/L (reference *Table 1*).

The lateral extent of contamination was determined with measurements of organic vapor concentrations as the excavation progressed outwardly from the point of release (POR).

Based on delineation activities, remedial excavation commenced on March 14, 2005 and continued through March 17, 2005. The initial excavation consisted of approximately 325-cubic yards of impacted soil removed from a ~1,300-square feet excavation to a depth of ~6-ft bgs. Excavated impacted soil was transported to J & L Landfarm for treatment.

On March 17, 2005 soil samples were collected from the sidewalls of the excavation. A portion of each sample was placed in a laboratory provided container and submitted to an independent laboratory for quantification of TPH, BTEX constituents and chlorides. The remaining portion of each sample collected in the sidewalls was analyzed in the field for the presence of organic vapors. Field analyses indicated organic vapor concentrations ranged from 28.1 ppm to 510 ppm, with an average concentration of 257 ppm. Analytical results indicated BTEX constituent concentrations ranged from <0.03 mg/Kg to 477mg/Kg, TPH from 11.1 mg/Kg to 15,200 mg/Kg and chloride concentrations of 48 mg/Kg to 880 mg/Kg (reference *Table 2*).

Excavation activities resumed on April 26, 2005 increasing the excavation area to the final limit of ~2,500 square feet to a maximum depth of 8-ft bgs. Approximately 180 cubic yards of excavated, impacted soil were transported to J & L Landfarm for treatment (reference *Figure 4*).

On May 6, 2005, soil samples were taken from the excavation floor and sidewalls and submitted for laboratory quantification of TPH, BTEX constituents and chloride concentrations. Laboratory analytical data indicated BTEX constituent concentrations in all samples were ND at or above laboratory MDL. TPH concentrations were reported to range from ND to 100 mg/Kg, below the NMOCD remedial threshold of 5,000 mg/Kg. Reported chloride concentrations in the excavation sidewalls ranged from 80 to 176 mg/Kg, below the NMWQCC groundwater standard of 250 mg/L. Reported chloride concentrations in the excavation floor (South Bottom) were 4,480 mg/Kg, in excess of the NMWQCC groundwater standard for chloride (reference *Table 2* and *Figure 4*).

Based on analytical results for samples collected on March 17 and May 6, 2005, and telephone conversations with the NMOCD, it was decided to collect additional samples from the southern half of the excavation floor. Soil samples were collected on August 11, 2005 from the southern half of the excavation floor. A portion of each sample was placed in a laboratory provided container and set on ice for transport to an independent laboratory for quantification of chloride concentrations. The remaining portion of each sample was analyzed in the field for chloride concentrations. Field analytical results indicated chloride concentrations ranged from 200 to 720 mg/Kg. Laboratory analytical data indicated chloride concentrations in sample SP-1 (4') were 1,024 mg/Kg, above the NMWQCC chloride groundwater standards of 250 mg/Kg. Chloride concentrations in the remaining samples collected from the south and center portion of the southern excavation floor [i.e., SP-2 (5') and SP-3 (4')] were both reported at 80 mg/Kg, below NMWQCC chloride groundwater standards of 250 mg/Kg (reference *Table 2*).

On December 12 and 13, 2005, 1-foot thick impermeable barrier constructed of dense compacted red clay with a permeability of 1×10^{-5} cm/sec. The barrier was placed in the excavation floor and extends a minimum of three feet beyond the edges of soil impacted above the NMWQCC chloride groundwater standard. The barrier was installed in six-inch lifts, compacted and tested by the independent engineering firm Pettigrew & Associates, P.A. to verify that the compaction has achieved a minimum of 95% of its Proctor Density (reference Appendix III). After the barrier was installed and tested to be acceptable, the excavation was backfilled with clean soil purchased from the landowner and graded to allow natural drainage.

5.0 Groundwater Investigation

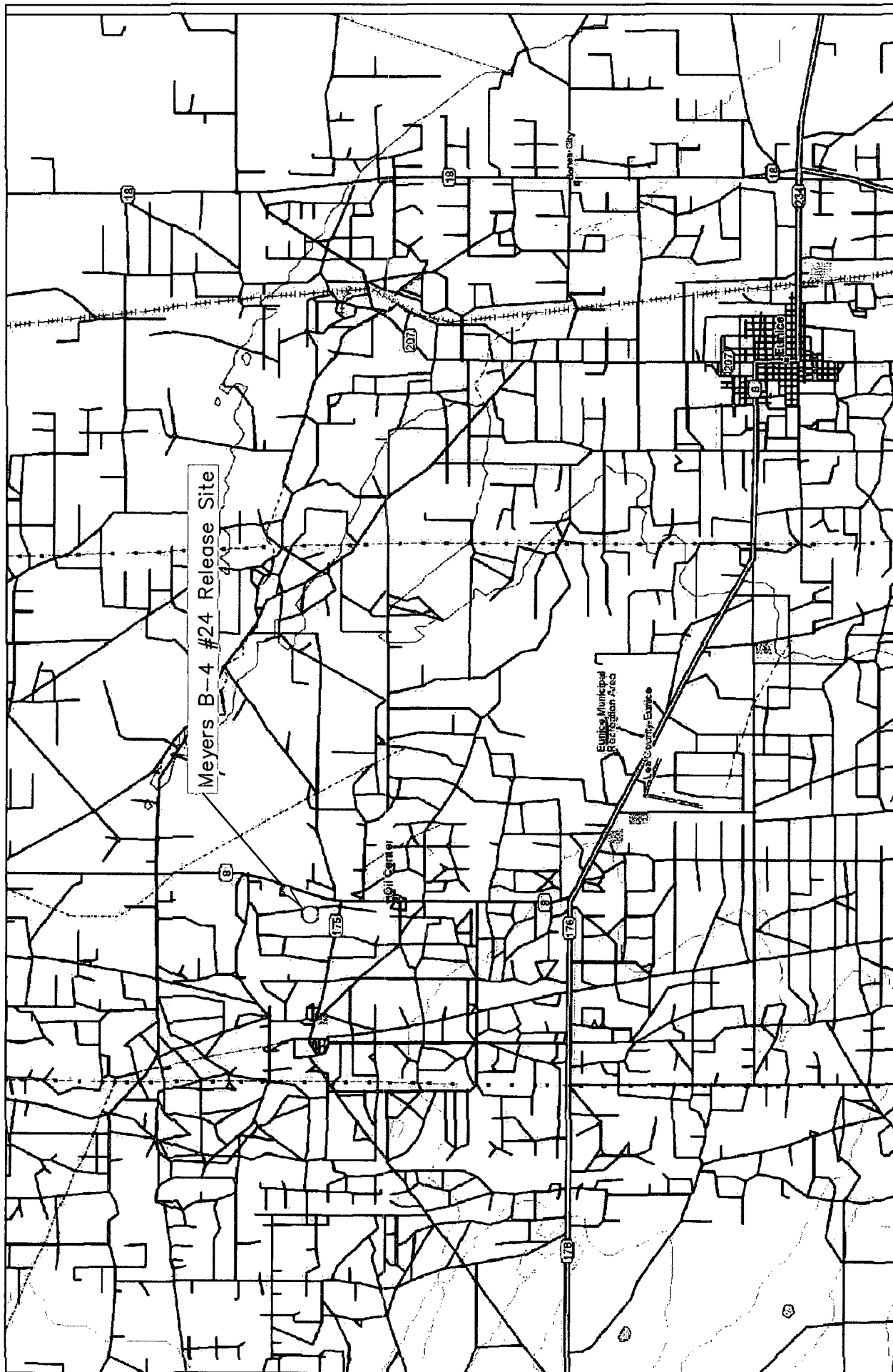
The projected depth to groundwater at this site is approximately 140-ft bgs. Excavation of the site was to a maximum depth of 8-feet bgs. Analytical data indicated hydrocarbon and chloride impacted soil had been excavated from the sidewalls of the release area. Based on depth to groundwater and soil samples collected from the soil boring and excavation floor, it is believed that groundwater has not been impacted, nor is it likely to be impacted due to this release. Therefore, no further groundwater investigation was deemed necessary.

6.0 Closure Justification

Based on field and analytical data, hydrocarbon and chloride impacted soil above NMOCD remedial thresholds and/or NMWQCC groundwater standard has been excavated and disposed of at J & L Landfarm, except for the southern excavation floor where chloride impacted soil above NMWQCC groundwater standards remains. The remaining source term (i.e., southern excavation floor) was isolated from downward migration with a one-foot thick impermeable barrier constructed of dense compacted red clay. The barrier was placed in the excavation floor and extends a minimum of three feet beyond the edges of soil impacted above the NMWQCC chloride groundwater standard. After the barrier was installed and tested to be acceptable, the excavation was backfilled with clean soil purchased from the landowner and graded to allow natural drainage. The final closure activity at the site is to seed the remediation area with a blend preferred by the landowner.

Environmental Plus, Inc., on behalf of ConocoPhillips, request the NMOCD require no further action and a site closure letter be issued.

FIGURES



Meyers B-4 #24 Release Site

Figure 1

Area Map
Conoco Phillips
Meyer B-4 #24

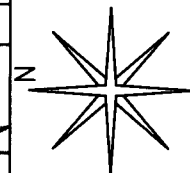
Lea County, New Mexico

SE 1/4 of the NE 1/4, Sec. 4, T21S, R36E
N 32° 30' 45.8" W 103° 15' 51.0"
Elevation: 3,545 feet amsl

REVISED:

DWG By: Iain Olness
December 2004

0 1.5 3.0
Miles
SHEET
1 of 1



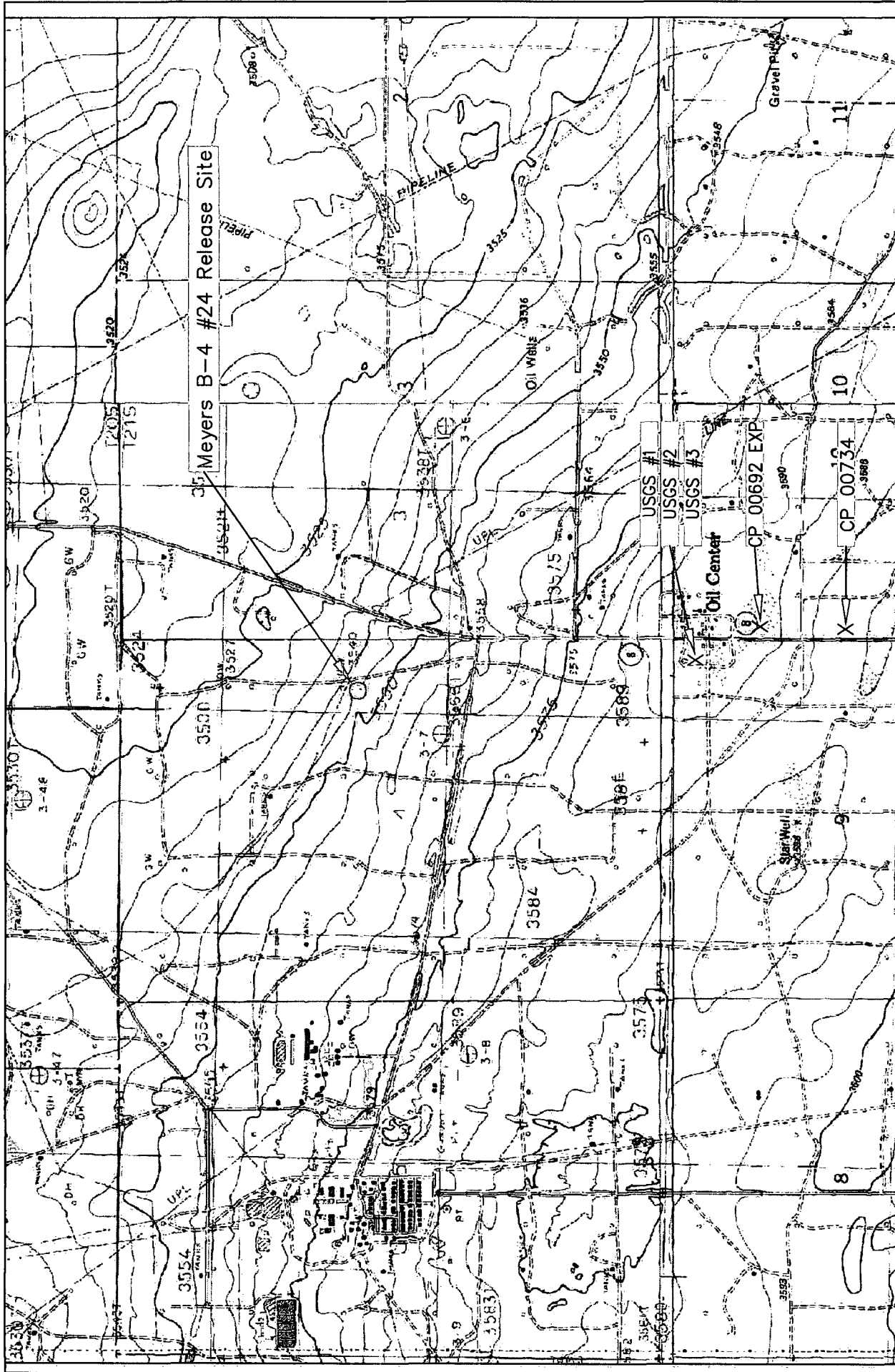


Figure 2

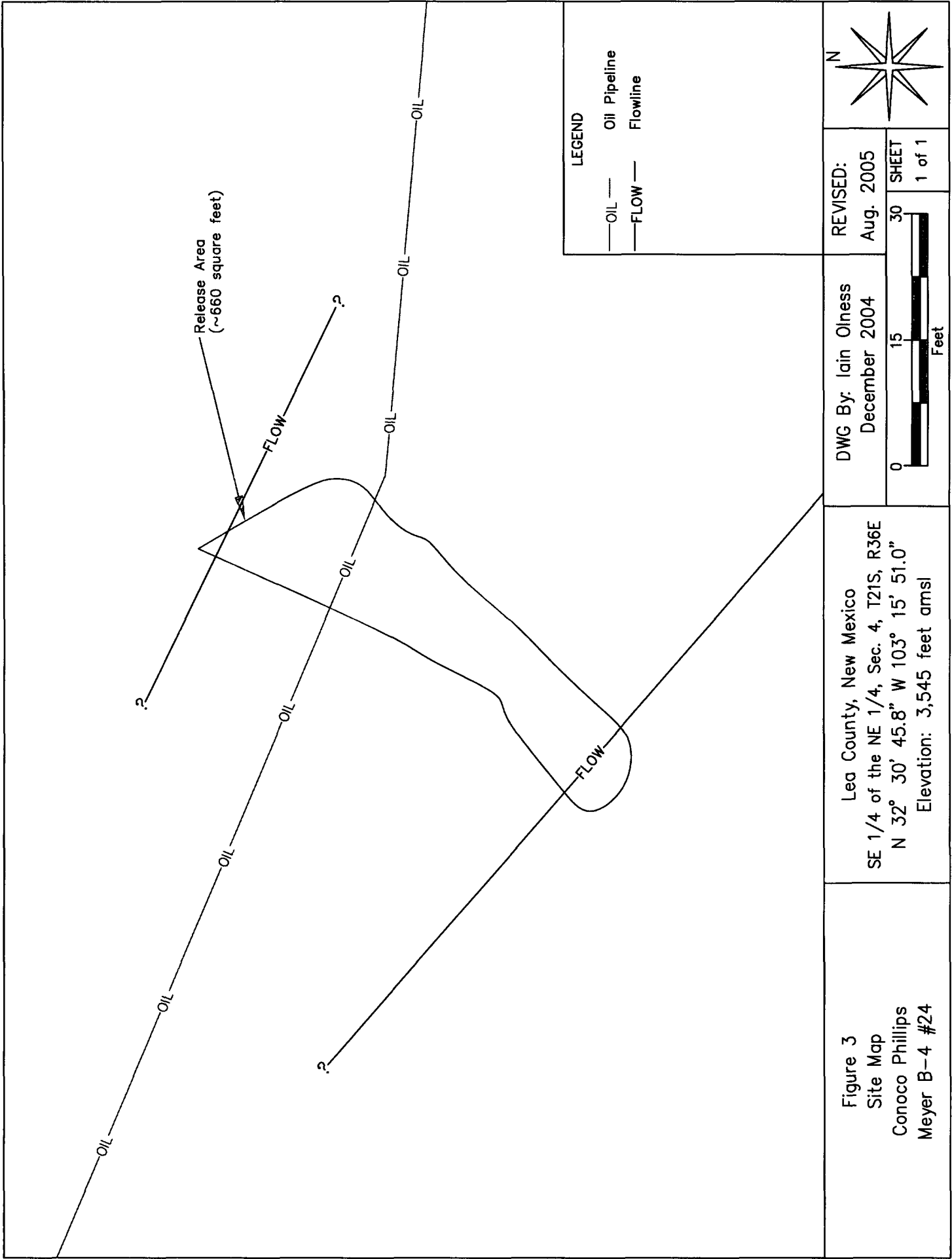
Site and Well Location Map
Conoco Phillips
Meyer B-4 #24

Lea County, New Mexico
SE 1/4 of the NE 1/4, Sec. 4, T21S, R36E
N 32° 30' 45.8" W 103° 15' 51.0"
Elevation: 3,545 feet amsl

DWG By: Iain Olness
December 2004

REvised:

4,000 SHEET
1 of 1



TABLES

TABLE 1

Summary of Soil Boring Analytical Results

Conoco Phillips Meyer B-4 #24 (Ref. #150005)

Soil Boring	Depth (feet)	Sample Date	PID Reading (ppm)	Benzene (µg/Kg)	Toluene (µg/Kg)	Ethylbenzene (µg/Kg)	m,p-Xylenes (µg/Kg)	o-Xylene (µg/Kg)	Total BTEX (µg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)	Chloride (mg/Kg)
SB-1	Topsoil (2)	27-Oct-04	228	82.1	3,920	4,960	11,300	9,060	29,322	1,230	15,700	16,930	43.2
	5	27-Oct-04	89.7	--	--	--	--	--	--	42.6	561	604	237
	10	27-Oct-04	74.8	<20	<20	<20	<40	<20	<120	<5	89.8	89.8	23.1
NMOCD Remedial Thresholds			100	10,000					50,000			5,000	250 ^A

Bolded values are in excess of the NMOCD Remediation Thresholds

-- = Not Analyzed

^A Chloride residuals may not be capable of impacting local groundwater above the NMWQCC standards of 250 mg/L.

TABLE 2

Summary of Excavation Analytical Results**Conoco Phillips- Meyer B-4 #24 (Ref. #150005)**

Soil Sample ID,	Depth (feet)	Sample Date	Soil Status	PID Reading (ppm)	Field Chloride (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)
North Endwall	5	17-Mar-05	In Situ	28.1	--	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	11.8	11.8	48
Northeast Sidewall	5	17-Mar-05	In Situ	317	--	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	11.1	11.1	880
South Endwall	5	17-Mar-05	Excavated	176	--	0.220	11.4	19.1	446	477	1,340	6,240	7,580	272
South Sidewall	5	6-May-05	In Situ	--	--	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	100	100	176
Southwest Sidewall	5	17-Mar-05	Excavated	510	--	0.597	23.1	31.7	69.4	125	2640	12,600	15,200	560
Southwest Sidewall	5	6-May-05	In Situ	--	--	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	80
North Bottomhole	8	17-Mar-05	In Situ	--	--	<0.005	0.011	0.032	0.145	<0.193	27.3	1,330	1,360	448
South Bottomhole	8	17-Mar-05	In Situ	--	--	0.010	0.432	1.30	4.00	5.74	546	4,090	4,640	400
South Bottom	10	6-May-05	In Situ	--	--	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	12.4	12.4	4,480
Southeast Sidewall	5	6-May-05	In Situ	--	--	<0.005	<0.005	<0.005	<0.015	<0.03	<10.0	<10.0	<20.0	80
SP-1 (4')	8	11-Aug-05	In Situ	--	720	--	--	--	--	--	--	--	--	1,024
SP-2 (5')	10	11-Aug-05	In Situ	--	200	--	--	--	--	--	--	--	--	80
SP-3 (4')	8	11-Aug-05	In Situ	--	200	--	--	--	--	--	--	--	--	80
NMOCD Remedial Thresholds				100		10				50			5,000	250^A

Bolted values are in excess of NMOCD Remediation Thresholds

-- =Not Analyzed

^AChloride residuals may not be capable of impacting local groundwater above the NMWQCC standards of 250 mg/L

TABLE 3

Well Data

Conoco Phillips- Meyer B-4 #24 (Ref. #150005)

Well Number	Diversion ^A	Owner	Use	Source	Twsp	Rng	Sec q q q	Latitude	Longitude	Date Measured	Surface Elevation ^B	Depth to Water (ft bgs)
USGS #1					21 S	36 E	9 2 22			18-Mar-68	3,595	119.36
USGS #2					21 S	36 E	9 2 22			28-Feb-96	3,595	200.43
USGS #3					21 S	36 E	9 2 22			20-Mar-86	3,595	203.72
CP 00692 EXP	0	W. L. Van Noy	DOM		21 S	36 E	10 1 13	N 32° 29' 48.76"	W 103° 15' 40.54"		3,595	
CP 00734	3	W. L. Van Noy	DOM	Shallow	21 S	36 E	10 1 13	N 32° 29' 35.71"	W 103° 15' 40.54"	22-Jun-88	3,585	200
USGS #4					20 S	37 E	31 4 4 4			1-Mar-61	3,540	36.73
USGS #5					20 S	37 E	31 3 2 2			15-Jan-71	3,535	79.07
L 07108 EXP	0	Northern Natural Gas	SAN		20 S	37 E	33 1 2 2	N 32° 31' 58.89"	W 103° 15' 36.82"		3,520	
L 07355	3	Northern Natural Gas	SAN	Shallow	20 S	37 E	33 1 2 2	N 32° 31' 58.89"	W 103° 15' 36.82"	4-Jul-75	3,530	120
L 08157	3	Northern Natural Gas	SAN	Shallow	20 S	37 E	33 1 2 2	N 32° 31' 58.89"	W 103° 15' 36.82"	8-Oct-79	3,530	275
CP 00475 EXP	0	Ross Robinson	STK		21 S	36 E	30 4 2 2	N 32° 26' 46.01"	W 103° 17' 59.18"		3,620	
CP 00484 (E)	3	Northern Natural Gas	SAN	Shallow	21 S	36 E	25 4 2	N 32° 26' 45.99"	W 103° 12' 51.03"	20-Jul-70	3,535	148
CP 00490 EXP	0	U. R. Cattle Company	STK		21 S	36 E	19 2 3	N 32° 27' 51.41"	W 103° 18' 14.75"		3,650	
CP 00505	3	Snyder Ranches, Ltd.	STK		21 S	36 E	16 2	N 32° 28' 43.53"	W 103° 16' 11.43"	10-Jul-72	3,605	195
CP 00664	3	Dove Broadcasting, Inc.	SAN	Shallow	21 S	36 E	23 2	N 32° 27' 51.27"	W 103° 14' 7.98"	25-May-84	3,537	150
CP 00676	0	Joe E. Sims	DOM	Shallow	21 S	36 E	18 4 4 1	N 32° 28' 17.46"	W 103° 17' 59.37"	30-Apr-93	3,570	106
CP 00685 ENLRG	0	Will J. McCasland	COM		21 S	36 E	11 4 2	N 32° 29' 22.71"	W 103° 13' 52.54"		3,565	
CP 00685 (1) EXP	0	Chevron USA, Inc.	PRO		21 S	36 E	11 4 2	N 32° 29' 22.71"	W 103° 13' 52.54"		3,565	
CP 00882	3	Laymond Smith	DOM		21 S	36 E	23 2	N 32° 27' 51.27"	W 103° 14' 7.98"		3,537	

* = 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

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

DOM = Domestic

SAN = Sanitary

STK = Livestock Watering

COM = Commercial

EXP = Expired

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

APPENDIX I

LABORATORY ANALYTICAL REPORTS

AND

CHAIN-OF-CUSTODY FORMS



Client: Environmental Plus, Inc.

Attn: Iain Olness

Address: 2100 Ave. O

Eunice, NM 88231

Phone: (505) 394-3481 FAX: (505) 394-2601

Report#/Lab ID#: 161140 Report Date: 11/05/04

Project ID: 150005

Sample Name: BH-1 (Topsoil)

Sample Matrix: soil

Date Received: 10/29/2004 Time: 10:05

Date Sampled: 10/27/2004 Time: 08:17

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	15700	mg/Kg	250	<250	11/01/04	8015 mod.	---	9.1	69.2	84.5	106.4
TPH by GC (as diesel-ext)	---	---	---	---	11/01/04	3570m	---	---	---	---	---
TPH by GC (as gasoline)	1230	mg/Kg	50	<50	11/01/04	8015 mod.	---	6	85.5	90.2	94.1
Chloride	43.2	mg/Kg	2.5	<2.5	11/02/04	325.2&9251	---	0.3	103.91	107.56	97.81
Volatile organics-8260b/BTEX	---	---	---	---	11/05/04	8260b(5030/5035)	---	---	---	---	---
Benzene	82.1	µg/Kg	20	<20	11/05/04	8260b	S.M	2.6	125.4	91.9	92.3
Ethylbenzene	4960	µg/Kg	1000	<1000	11/03/04	8260b	S.M	1.9	162	106.3	115.2
m,p-Xylenes	11300	µg/Kg	2000	<2000	11/03/04	8260b	S.M	1.2	147.7	102.2	108.3
o-Xylene	9060	µg/Kg	1000	<1000	11/03/04	8260b	S.M	1.6	163.2	109	119.1
Toluene	3920	µg/Kg	20	<20	11/05/04	8260b	S.M	4.1	146.1	99.5	101.8

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than (" $<$ ") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S & SI = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.

Client: Environmental Plus, Inc.	Project ID: 150005	Report#/Lab ID#: 161140
Attn: Iain Olness	Sample Name: BH-1 (Topsoil)	Sample Matrix: soil

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane p-Terphenyl	8015 mod.	none/diluted	diluted @ 5X	D
	8015 mod.	none/diluted	diluted @ 50X	D
1,2-Dichloroethane-d4 Toluene-d8	8260b	108	56-120	---
	8260b	77.6	71-116	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.



Report #/Lab ID#: 161140 **Matrix:** soil
Client: Environmental Plus, Inc. **Attn:** Iain Olness
Project ID: 150005
Sample Name: BH-1 (Topsoil)

Sample Temperature/Condition: <=6°C
The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

- Sample Bottles & Preservation:**
- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
 - ☐ Sample received in appropriate container(s). State of sample preservation unknown.
 - ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:
A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Ethylbenzene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
m,p-Xylenes	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
o-Xylene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Toluene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
1-Chlorooctane	D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
1-Chlorooctane	D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl	D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.
p-Terphenyl	D	Sample diluted to assure quantitation within calibration range or due to Matrix interferences or other matrix effects (eg. high non-target organic levels). Surrogate recoveries not accurately quantifiable.

Notes:



Client: Environmental Plus, Inc.
Attn: Iain Olness

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane	8015 mod.	87.7	30-125	---
p-Terphenyl	8015 mod.	130	30-160	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Project ID: 150005
Sample Name: BH-1 (5')

Report#/Lab ID#: 161141
Sample Matrix: soil

Environmental Plus, Inc.
150005
N. State Island Dr., Corpus Christi, TX 78403
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Eunice, NM 88231
Phone: (505) 394-3481 FAX: (505) 394-2601

Report#/Lab ID#: 161142 Report Date: 11/05/04
Project ID: 150005
Sample Name: BH-1 (10')
Sample Matrix: soil
Date Received: 10/29/2004 Time: 10:05
Date Sampled: 10/27/2004 Time: 09:27

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
TPH by GC (as diesel)	89.8	mg/Kg	2.5	<2.5	11/01/04	8015 mod.	---	9.1	69.2	84.5	106.4
TPH by GC (as diesel-ext)	---	---	---	---	11/01/04	3570m	---	---	---	---	---
TPH by GC (as gasoline)	<5	mg/Kg	5	<5	11/01/04	8015 mod.	J	6	85.5	90.2	94.1
Chloride	23.1	mg/Kg	2.5	<2.5	11/02/04	325.2&9251	---	0.3	103.91	107.56	97.81
Volatile organics-8260b/BTEX	---	---	---	---	11/03/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<20	µg/Kg	20	<20	11/03/04	8260b	S,M	2.6	125.4	91.9	92.3
Ethylbenzene	<20	µg/Kg	20	<20	11/03/04	8260b	S,M	1.9	162	106.3	115.2
m,p-Xylenes	<40	µg/Kg	40	<40	11/03/04	8260b	S,M	1.2	147.7	102.2	108.3
o-Xylene	<20	µg/Kg	20	<20	11/03/04	8260b	S,M	1.6	163.2	109	119.1
Toluene	<20	µg/Kg	20	<20	11/03/04	8260b	S,M	4.1	146.1	99.5	101.8

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Dale Wagner

1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.



Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 150005
Sample Name: BH-1 (10')

Report#/Lab ID#: 161142
Sample Matrix: soil

Environmental Plus, Inc.
150005 N. Faron Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1-Chlorooctane p-Terphenyl	8015 mod.	75	30-125	---
	8015 mod.	110	30-160	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	105	56-120	---
	8260b	114	71-116	---

Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits.

Project ID: 150005

Sample Name: BH-1 (10')

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
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J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
TPH by GC (as gasoline)	J	See J-flag discussion above.
Benzene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Ethylbenzene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
m,p-Xylenes	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
o-Xylene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Toluene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.

Notes:

Chain of Custody Form

(915) 563-1800 FAX: (915) 563-1713

E-mail results to: iolness@hotmail.com

REMARKS:

10/29 @ 1005

Sample Analysis Case Narrative

Client: Environmental Plus, Inc. Project ID: 150005

Attn: Iain Olness

for Sample #'s: 161140 thru 161142

Analyzed by AnalySys, Inc.

Final Review Date: 11/12/2004 By:  (D. Wagner)

Case Narrative:

The recoveries of several BTEX compounds in the Matrix Spikes (MS&MSD) for the analytical batch that contained sample #'s 161140 and 161142 were above normal laboratory acceptance criteria. The Laboratory Control Sample (LCS) run with this batch met recovery acceptance criteria for each compound indicating that the analytical method was operating correctly and in control. Although spike recoveries are high for these compounds, neither of the above referenced samples were the spiked sample. When viewed within the context of the passing LCS data, and the acceptable surrogate recoveries seen for each sample, this deviation in spike recovery should have a minimal impact on data usability.



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

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

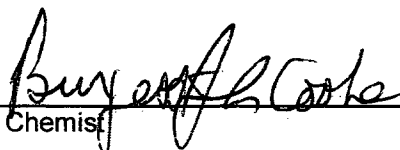
Receiving Date: 03/21/05
Reporting Date: 03/23/05
Project Number: 150004
Project Name: MEYER B-4 324
Project Location: NOT GIVEN

Sampling Date: 03/17/05
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/JD

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	CI* (mg/Kg)
ANALYSIS DATE		03/22/05	03/22/05	03/23/05
H9645-1	NORTH ENDWALL	<10.0	11.8	48
H9645-2	NORTHEAST SIDEWALL	<10.0	11.1	880
H9645-3	SOUTH ENDWALL	1340	6240	272
H9645-4	SOUTHWEST SIDEWALL	2640	12600	560
H9645-5	NORTH BOTTOMHOLE	27.3	1330	448
H9645-6	SOUTH BOTTOMHOLE	546	4090	400
Quality Control		779	793	1000
True Value QC		800	800	1000
% Recovery		97.4	99.2	100
Relative Percent Difference		9.5	2.4	5.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI'B

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


Chemist

3/23/05
Date

H9645A.XLS

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



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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: 03/21/05

Reporting Date: 03/23/05

Project Number: 150004

Project Name: MEYER B-4 324

Project Location: NOT GIVEN

Sampling Date: 03/17/05

Sample Type: SOIL

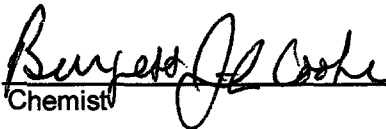
Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: BC

LAB NUMBER	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		03/22/05	03/22/05	03/22/05	03/22/05
H9645-1	NORTH ENDWALL	<0.005	<0.005	<0.005	<0.015
H9645-2	NORTHEAST SIDEWALL	<0.005	<0.005	<0.005	<0.015
H9645-3	SOUTH ENDWALL	0.220	11.4	19.1	446
H9645-4	SOUTHWEST SIDEWALL	0.597	23.1	31.7	69.4
H9645-5	NORTH BOTTOMHOLE	<0.005	0.011	0.032	0.145
H9645-6	SOUTH BOTTOMHOLE	0.010	0.432	1.30	4.00
Quality Control		0.104	0.094	0.102	0.314
True Value QC		0.100	0.100	0.100	0.300
% Recovery		104.0	94.0	102	105.0
Relative Percent Difference		4.9	5.5	3.8	2.8

METHOD: EPA SW-846 8260


Chemist

3/23/05
Date

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

Cardinal Laboratories Inc.

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

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

Company Name EPI Project Manager Billing Address City, State, Zip EPI Phone#/Fax# Client Company Facility Name Project Reference EPI Sampler Name		Environmental Plus, Inc. Iain Olness P.O. BOX 1558 Eunice New Mexico 88231 505-394-3481 / 505-394-2601 ConocoPhillips Meyer B-4 324 150004 Roger Boone		ConocoPhillips ATTN: John Abney 1410 West County Road Hobbs, NM 88240		Bill To		ANALYSIS REQUEST																																									
LAB I.D.		SAMPLE I.D.		# CONTAINERS			MATRIX			PRESERV.			SAMPLING																																				
				(G)RAB OR (C)OMP.			GROUND WATER			WASTEWATER			SOIL			CRUDE OIL			SLUDGE			OTHER:			ACID/BASE			ICE/COOL			OTHER			DATE			TIME												
1 North Endwall		1		G									X															X			17-Mar			9:58															
2 Northeast Sidewall		2		G									X															X			17-Mar			10:18															
3 South Endwall		3		G									X															X			17-Mar			9:27															
4 Southwest Sidewall		4		G									X															X			17-Mar			9:37															
5 North Bottomhole		5		G									X															X			17-Mar			10:29															
6 South Bottomhole		6		G									X															X			17-Mar			10:38															
7		7																																															
8		8																																															
9		9																																															
10		10																																															



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

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

Receiving Date: 05/11/05
Reporting Date: 05/13/05
Project Owner: CONOCO PHILLIPS/150004
Project Name: MEYER B-4 #24
Project Location: NOT GIVEN

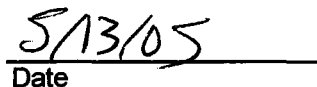
Sampling Date: 05/06/05
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	GRO	DRO	CI*
		(C ₆ -C ₁₀) (mg/Kg)	(>C ₁₀ -C ₂₈) (mg/Kg)	(mg/Kg)
ANALYSIS DATE		05/11/05	05/11/05	05/12/05
H9789-1	SOUTH BOTTOM	<10.0	12.4	4480
H9789-2	SOUTHEAST SIDEWALL	<10.0	<10.0	80
H9789-3	SOUTH SIDEWALL	<10.0	100	176
H9789-4	SOUTHWEST SIDEWALL	<10.0	<10.0	80
Quality Control		740	758	960
True Value QC		800	800	1000
% Recovery		92.5	94.8	96.0
Relative Percent Difference		1.7	6.4	1.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI'B

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


Chemist


Date

H9789A.XLS

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



ARDINAL 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: IAIN OLNESS

P.O. BOX 1558

EUNICE, NM 88231

FAX TO: (505) 394-2601

Receiving Date: 05/11/05

Reporting Date: 05/13/05

Project Owner: CONOCO PHILLIPS/150004

Project Name: MEYER B-4 #24

Project Location: NOT GIVEN

Sampling Date: 05/06/05

Sample Type: SOIL

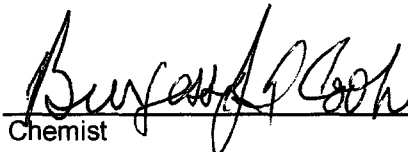
Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: BC

LAB NO.	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE		05/12/05	05/12/05	05/12/05	05/12/05
H9789-1	SOUTH BOTTOM	<0.005	<0.005	<0.005	<0.015
H9789-2	SOUTHEAST SIDEWALL	<0.005	<0.005	<0.005	<0.015
H9789-3	SOUTH SIDEWALL	<0.005	<0.005	<0.005	<0.015
H9789-4	SOUTHWEST SIDEWALL	<0.005	<0.005	<0.005	<0.015
Quality Control		0.090	0.088	0.094	0.295
True Value QC		0.100	0.100	0.100	0.300
% Recovery		90.1	87.7	94.3	98.5
Relative Percent Difference		0.4	0.5	7.5	6.5

METHOD: EPA SW-846 8260


Chemist


Date

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

Cardinal Laboratories Inc.

101 East Marland, 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		Iain Olness	
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		Meyer B-4 #24	
Project Reference		150004	
EPI Sampler Name		Joe Gatts	



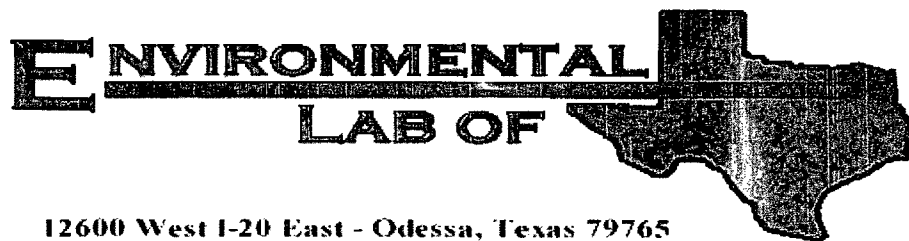
ATTN: John Abney
1410 West County Road
Hobbs, NM 88240

LAB I.D.	SAMPLE I.D.	# CONTAINERS			MATRIX					PRESERV.			SAMPLING		TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO ₄)	PH	TCLP	OTHER >>>
		(G)RAB OR (C)OMP.	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE										
14789-1	1 South Bottom	G			X							X		6-May	10:01	X	X	X				
2	2 Southeast Sidewall	G			X							X		6-May	10:07	X	X	X				
3	3 South Sidewall	G			X							X		6-May	10:15	X	X	X				
4	4 Southwest Sidewall	G			X							X		6-May	10:20	X	X	X				
5																						
6																						
7																						
8																						
9																						
10																						

Sampler Relinquished: <i>Paula Olness</i>	Received By: Date: 5/14/05 Time: 15:45 <i>Janet Peterson</i>
Relinquished by: <i>Janet Peterson</i>	Received By: (lab staff) Date: 5/14/05 Time: 16:15 <i>Paula Olness</i>
Delivered by: <i>Janet Peterson</i>	Sample Cool & Intact? Yes ☒ No ☐ Checked By: <i>Janet Peterson</i>

Fax Results To Iain Olness 505-394-2601

REMARKS:



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/ Warren McKee #23

Project Number: 150012

Location: None Given

Lab Order Number: 5G22012

Report Date: 07/26/05

Environmental Plus, Incorporated
P.O. Box 1558
Eunice NM, 88231

Project: Conoco Phillips/ Warren McKee #23
Project Number: 150012
Project Manager: Iain Olness

Fax: 505-394-2601

Reported:
07/26/05 16:52

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SW-1 (3')	5G22012-01	Soil	07/20/05 08:00	07/22/05 13:21
SW-2 (3')	5G22012-02	Soil	07/20/05 08:12	07/22/05 13:21
SW-3 (3')	5G22012-03	Soil	07/20/05 08:20	07/22/05 13:21
SW-4 (3')	5G22012-04	Soil	07/20/05 08:30	07/22/05 13:21
SW-5 (3')	5G22012-05	Soil	07/20/05 08:42	07/22/05 13:21
SW-6 (3')	5G22012-06	Soil	07/20/05 08:55	07/22/05 13:21
SW-7 (3')	5G22012-07	Soil	07/20/05 09:05	07/22/05 13:21
SW-8 (3')	5G22012-08	Soil	07/20/05 09:17	07/22/05 13:21
SW-9 (3')	5G22012-09	Soil	07/20/05 09:28	07/22/05 13:21
SW-10 (3')	5G22012-10	Soil	07/20/05 09:42	07/22/05 13:21
B-1 (6')	5G22012-11	Soil	07/20/05 08:00	07/22/05 13:21
B-1 (9')	5G22012-12	Soil	07/20/05 08:12	07/22/05 13:21
B-2 (6')	5G22012-13	Soil	07/20/05 08:20	07/22/05 13:21
B-3 (4')	5G22012-14	Soil	07/20/05 08:30	07/22/05 13:21

Environmental Plus, Incorporated
P.O. Box 1558
Eunice NM, 88231

Project: Conoco Phillips/ Warren McKee #23
Project Number: 150012
Project Manager: Iain Olness

Fax: 505-394-2601

Reported:
07/26/05 16:52

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-1 (3') (5G22012-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG52501	07/25/05	07/25/05	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		86.3 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.7 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG52214	07/22/05	07/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		71.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		77.8 %	70-130		"	"	"	"	
SW-2 (3') (5G22012-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG52501	07/25/05	07/25/05	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		89.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.3 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG52214	07/22/05	07/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		72.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		77.2 %	70-130		"	"	"	"	
SW-3 (3') (5G22012-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG52501	07/25/05	07/25/05	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		90.4 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.0 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG52214	07/22/05	07/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 2 of 14

Environmental Plus, Incorporated
P.O. Box 1558
Eunice NM, 88231

Project: Conoco Phillips/ Warren McKee #23
Project Number: 150012
Project Manager: Iain Olness

Fax: 505-394-2601

Reported:
07/26/05 16:52

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SW-3 (3') (5G22012-03) Soil

Surrogate: 1-Chlorooctane		71.6 %	70-130		EG52214	07/22/05	07/23/05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		77.8 %	70-130		"	"	"	"	

SW-4 (3') (5G22012-04) Soil

Benzene	ND	0.0250	mg/kg dry	25	EG52501	07/25/05	07/25/05	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		92.3 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.5 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG52214	07/22/05	07/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		71.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		74.2 %	70-130		"	"	"	"	

SW-5 (3') (5G22012-05) Soil

Benzene	ND	0.0250	mg/kg dry	25	EG52501	07/25/05	07/25/05	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		85.9 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		82.1 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG52214	07/22/05	07/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		71.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		74.8 %	70-130		"	"	"	"	

Environmental Lab of Texas

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Page 3 of 14

Environmental Plus, Incorporated
P.O. Box 1558
Eunice NM, 88231

Project: Conoco Phillips/ Warren McKee #23
Project Number: 150012
Project Manager: Iain Olness

Fax: 505-394-2601

Reported:
07/26/05 16:52

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-6 (3') (5G22012-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG52501	07/25/05	07/25/05	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		97.7 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.1 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG52214	07/22/05	07/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		82.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		71.4 %	70-130		"	"	"	"	
SW-7 (3') (5G22012-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG52501	07/25/05	07/25/05	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		92.6 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.5 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG52214	07/22/05	07/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		71.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		72.6 %	70-130		"	"	"	"	
SW-8 (3') (5G22012-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG52501	07/25/05	07/25/05	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		84.9 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.5 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG52214	07/22/05	07/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 4 of 14

Environmental Plus, Incorporated
P.O. Box 1558
Eunice NM, 88231

Project: Conoco Phillips/ Warren McKee #23
Project Number: 150012
Project Manager: Iain Olness

Fax: 505-394-2601

Reported:
07/26/05 16:52

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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SW-8 (3') (5G22012-08) Soil

Surrogate: 1-Chlorooctane		73.4 %	70-130		EG52214	07/22/05	07/23/05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		76.0 %	70-130		"	"	"	"	

SW-9 (3') (5G22012-09) Soil

Benzene	ND	0.0250	mg/kg dry	25	EG52501	07/25/05	07/25/05	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		83.7 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.2 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG52214	07/22/05	07/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		71.2 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		75.0 %	70-130		"	"	"	"	

SW-10 (3') (5G22012-10) Soil

Benzene	ND	0.0250	mg/kg dry	25	EG52501	07/25/05	07/25/05	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		91.7 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.9 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG52214	07/22/05	07/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		70.8 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		75.8 %	70-130		"	"	"	"	

Environmental Lab of Texas

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Page 5 of 14

Environmental Plus, Incorporated
P.O. Box 1558
Eunice NM, 88231

Project: Conoco Phillips/ Warren McKee #23
Project Number: 150012
Project Manager: Iain Olness

Fax: 505-394-2601

Reported:
07/26/05 16:52

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-1 (6') (5G22012-11) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG52501	07/25/05	07/26/05	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		97.1 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		88.3 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG52214	07/22/05	07/23/05	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		70.6 %	70-130		"	"	"	"	
B-1 (9') (5G22012-12) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG52501	07/25/05	07/25/05	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		85.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		81.9 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG52214	07/22/05	07/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		75.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		78.6 %	70-130		"	"	"	"	
B-2 (6') (5G22012-13) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG52501	07/25/05	07/25/05	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		92.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		85.1 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG52214	07/22/05	07/23/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

Environmental Lab of Texas

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Page 6 of 14

Environmental Plus, Incorporated
P.O. Box 1558
Eunice NM, 88231

Project: Conoco Phillips/ Warren McKee #23
Project Number: 150012
Project Manager: Iain Olness

Fax: 505-394-2601

Reported:
07/26/05 16:52

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
B-2 (6') (5G22012-13) Soil									
Surrogate: 1-Chlorooctane		74.4 %	70-130		EG52214	07/22/05	07/23/05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		70.2 %	70-130		"	"	"	"	
B-3 (4') (5G22012-14) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG52501	07/25/05	07/25/05	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		87.4 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		83.3 %	80-120		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG52214	07/22/05	07/24/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		82.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		74.4 %	70-130		"	"	"	"	

Environmental Plus, Incorporated
P.O. Box 1558
Eunice NM, 88231

Project: Conoco Phillips/ Warren McKee #23
Project Number: 150012
Project Manager: Jain Olness

Fax: 505-394-2601

Reported:
07/26/05 16:52

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-1 (3') (5G22012-01) Soil									
Chloride	614	10.0	mg/kg	20	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	2.0	0.1	%	1	EG52516	07/22/05	07/25/05	% calculation	
SW-2 (3') (5G22012-02) Soil									
Chloride	284	5.00	mg/kg	10	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	1.7	0.1	%	1	EG52516	07/22/05	07/25/05	% calculation	
SW-3 (3') (5G22012-03) Soil									
Chloride	592	10.0	mg/kg	20	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	2.1	0.1	%	1	EG52516	07/22/05	07/25/05	% calculation	
SW-4 (3') (5G22012-04) Soil									
Chloride	47.0	5.00	mg/kg	10	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	1.2	0.1	%	1	EG52516	07/22/05	07/25/05	% calculation	
SW-5 (3') (5G22012-05) Soil									
Chloride	957	10.0	mg/kg	20	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	3.7	0.1	%	1	EG52516	07/22/05	07/25/05	% calculation	
SW-6 (3') (5G22012-06) Soil									
Chloride	761	10.0	mg/kg	20	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	7.8	0.1	%	1	EG52516	07/22/05	07/25/05	% calculation	
SW-7 (3') (5G22012-07) Soil									
Chloride	687	10.0	mg/kg	20	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	2.6	0.1	%	1	EG52516	07/22/05	07/25/05	% calculation	
SW-8 (3') (5G22012-08) Soil									
Chloride	678	10.0	mg/kg	20	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	2.6	0.1	%	1	EG52516	07/22/05	07/25/05	% calculation	

Environmental Lab of Texas

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Environmental Plus, Incorporated
P.O. Box 1558
Eunice NM, 88231

Project: Conoco Phillips/ Warren McKee #23
Project Number: 150012
Project Manager: Iain Olness

Fax: 505-394-2601

Reported:
07/26/05 16:52

General Chemistry Parameters by EPA / Standard Methods
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-9 (3') (5G22012-09) Soil									
Chloride	688	10.0	mg/kg	20	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	3.8	0.1	%	1	EG52516	07/22/05	07/25/05	% calculation	
SW-10 (3') (5G22012-10) Soil									
Chloride	234	5.00	mg/kg	10	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	2.2	0.1	%	1	EG52516	07/22/05	07/25/05	% calculation	
B-1 (6') (5G22012-11) Soil									
Chloride	1790	25.0	mg/kg	50	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	7.6	0.1	%	1	EG52516	07/22/05	07/25/05	% calculation	
B-1 (9') (5G22012-12) Soil									
Chloride	1910	25.0	mg/kg	50	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	8.2	0.1	%	1	EG52516	07/22/05	07/25/05	% calculation	
B-2 (6') (5G22012-13) Soil									
Chloride	290	5.00	mg/kg	10	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	10.0	0.1	%	1	EG52516	07/22/05	07/25/05	% calculation	
B-3 (4') (5G22012-14) Soil									
Chloride	710	10.0	mg/kg	20	EG52606	07/25/05	07/25/05	EPA 300.0	
% Moisture	9.4	0.1	%	1	EG52516	07/22/05	07/25/05	% calculation	

Environmental Plus, Incorporated
P.O. Box 1558
Eunice NM, 88231

Project: Conoco Phillips/ Warren McKee #23
Project Number: 150012
Project Manager: Iain Olness

Fax: 505-394-2601

Reported:
07/26/05 16:52

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch EG52214 - Solvent Extraction (GC)

Blank (EG52214-BLK1)

Prepared: 07/22/05 Analyzed: 07/23/05

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	42.5		mg/kg	50.0		85.0	70-130		
Surrogate: 1-Chlorooctadecane	39.0		"	50.0		78.0	70-130		

LCS (EG52214-BS1)

Prepared: 07/22/05 Analyzed: 07/23/05

Gasoline Range Organics C6-C12	427	10.0	mg/kg wet	500		85.4	75-125		
Diesel Range Organics >C12-C35	433	10.0	"	500		86.6	75-125		
Total Hydrocarbon C6-C35	860	10.0	"	1000		86.0	75-125		
Surrogate: 1-Chlorooctane	49.4		mg/kg	50.0		98.8	70-130		
Surrogate: 1-Chlorooctadecane	39.5		"	50.0		79.0	70-130		

Calibration Check (EG52214-CCV1)

Prepared: 07/22/05 Analyzed: 07/24/05

Gasoline Range Organics C6-C12	435		mg/kg	500		87.0	80-120		
Diesel Range Organics >C12-C35	479		"	500		95.8	80-120		
Total Hydrocarbon C6-C35	914		"	1000		91.4	80-120		
Surrogate: 1-Chlorooctane	53.3		"	50.0		107	70-130		
Surrogate: 1-Chlorooctadecane	39.9		"	50.0		79.8	70-130		

Matrix Spike (EG52214-MS1)

Source: 5G22012-01

Prepared: 07/22/05 Analyzed: 07/23/05

Gasoline Range Organics C6-C12	447	10.0	mg/kg dry	510	ND	87.6	75-125		
Diesel Range Organics >C12-C35	444	10.0	"	510	ND	87.1	75-125		
Total Hydrocarbon C6-C35	891	10.0	"	1020	ND	87.4	75-125		
Surrogate: 1-Chlorooctane	54.3		mg/kg	50.0		109	70-130		
Surrogate: 1-Chlorooctadecane	42.1		"	50.0		84.2	70-130		

Matrix Spike Dup (EG52214-MSD1)

Source: 5G22012-01

Prepared: 07/22/05 Analyzed: 07/23/05

Gasoline Range Organics C6-C12	423	10.0	mg/kg dry	510	ND	82.9	75-125	5.52	20
Diesel Range Organics >C12-C35	465	10.0	"	510	ND	91.2	75-125	4.62	20
Total Hydrocarbon C6-C35	888	10.0	"	1020	ND	87.1	75-125	0.337	20
Surrogate: 1-Chlorooctane	54.0		mg/kg	50.0		108	70-130		
Surrogate: 1-Chlorooctadecane	42.2		"	50.0		84.4	70-130		

Environmental Lab of Texas

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Environmental Plus, Incorporated
P.O. Box 1558
Eunice NM, 88231

Project: Conoco Phillips/ Warren McKee #23
Project Number: 150012
Project Manager: Iain Olness

Fax: 505-394-2601

Reported:
07/26/05 16:52

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
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Batch EG52501 - EPA 5030C (GC)

Blank (EG52501-BLK1)

Prepared & Analyzed: 07/25/05

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	94.8		ug/kg	100		94.8	80-120			
Surrogate: 4-Bromofluorobenzene	82.7		"	100		82.7	80-120			

LCS (EG52501-BS1)

Prepared & Analyzed: 07/25/05

Benzene	118		ug/kg	100		118	80-120			
Toluene	120		"	100		120	80-120			
Ethylbenzene	116		"	100		116	80-120			
Xylene (p/m)	230		"	200		115	80-120			
Xylene (o)	104		"	100		104	80-120			
Surrogate: a,a,a-Trifluorotoluene	106		"	100		106	80-120			
Surrogate: 4-Bromofluorobenzene	95.1		"	100		95.1	80-120			

Calibration Check (EG52501-CCV1)

Prepared & Analyzed: 07/25/05

Benzene	91.0		ug/kg	100		91.0	80-120			
Toluene	90.5		"	100		90.5	80-120			
Ethylbenzene	84.5		"	100		84.5	80-120			
Xylene (p/m)	167		"	200		83.5	80-120			
Xylene (o)	84.3		"	100		84.3	80-120			
Surrogate: a,a,a-Trifluorotoluene	83.0		"	100		83.0	80-120			
Surrogate: 4-Bromofluorobenzene	81.7		"	100		81.7	80-120			

Matrix Spike (EG52501-MS1)

Source: 5G22013-02

Prepared & Analyzed: 07/25/05

Benzene	94.8		ug/kg	100	ND	94.8	80-120			
Toluene	96.8		"	100	ND	96.8	80-120			
Ethylbenzene	90.9		"	100	ND	90.9	80-120			
Xylene (p/m)	179		"	200	ND	89.5	80-120			
Xylene (o)	85.1		"	100	ND	85.1	80-120			
Surrogate: a,a,a-Trifluorotoluene	80.5		"	100		80.5	80-120			
Surrogate: 4-Bromofluorobenzene	81.9		"	100		81.9	80-120			

Environmental Lab of Texas

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Environmental Plus, Incorporated
P.O. Box 1558
Eunice NM, 88231

Project: Conoco Phillips/ Warren McKee #23
Project Number: 150012
Project Manager: Iain Olness

Fax: 505-394-2601

Reported:
07/26/05 16:52

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
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Batch EG52501 - EPA 5030C (GC)

Matrix Spike Dup (EG52501-MSD1)

Source: 5G22013-02

Prepared & Analyzed: 07/25/05

Benzene	92.5		ug/kg	100	ND	92.5	80-120	2.46	20	
Toluene	96.4		"	100	ND	96.4	80-120	0.414	20	
Ethylbenzene	91.3		"	100	ND	91.3	80-120	0.439	20	
Xylene (p/m)	180		"	200	ND	90.0	80-120	0.557	20	
Xylene (o)	82.2		"	100	ND	82.2	80-120	3.47	20	
Surrogate: a,a,a-Trifluorotoluene	85.7		"	100		85.7	80-120			
Surrogate: 4-Bromofluorobenzene	80.1		"	100		80.1	80-120			

Environmental Lab of Texas

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Page 12 of 14

Environmental Plus, Incorporated
P.O. Box 1558
Eunice NM, 88231

Project: Conoco Phillips/ Warren McKee #23
Project Number: 150012
Project Manager: Iain Olness

Fax: 505-394-2601

Reported:
07/26/05 16:52

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch EG52516 - General Preparation (Prep)

Blank (EG52516-BLK1)

Prepared: 07/22/05 Analyzed: 07/25/05

% Moisture	ND	0.1	%
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Duplicate (EG52516-DUP1)

Source: 5G21014-01

Prepared: 07/22/05 Analyzed: 07/25/05

% Moisture	5.5	0.1	%	5.7	3.57	20
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Batch EG52606 - Water Extraction

Blank (EG52606-BLK1)

Prepared & Analyzed: 07/25/05

Chloride	ND	0.500	mg/kg
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LCS (EG52606-BS1)

Prepared & Analyzed: 07/25/05

Chloride	10.2	mg/L	10.0	102	80-120
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Calibration Check (EG52606-CCV1)

Prepared & Analyzed: 07/25/05

Chloride	10.0	mg/L	10.0	100	80-120
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Duplicate (EG52606-DUP1)

Source: 5G22011-01

Prepared & Analyzed: 07/25/05

Chloride	16.7	5.00	mg/kg	14.9	11.4	20
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Environmental Plus, Incorporated
P.O. Box 1558
Eunice NM, 88231

Project: Conoco Phillips/ Warren McKee #23
Project Number: 150012
Project Manager: Iain Olness

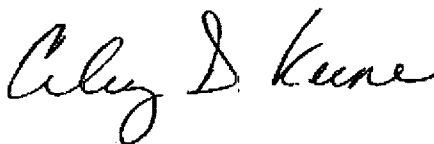
Fax: 505-394-2601

Reported:
07/26/05 16:52

Notes and Definitions

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: _____



Date: 7/26/2005

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.

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If you have received this material in error, please notify us immediately at 432-563-1800.

Chain of Custody Form

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

E-mail results to: iolness@hotmail.com & John.H.Murray@conocophillips
REMARKS: Fax Results to Roger Boone
(EPT) @ 505-394-2601
-25°C

Environmental Labs of Texas

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

Chain of Custody Form

Company Name Environmental Plus, Inc.		Bill To		ANALYSIS REQUEST											
EPI Project Manager Iain Olness		ConocoPhillips													
Mailing Address P.O. BOX 1558		Attn: John Abney													
City, State, Zip Eunice New Mexico 88231		1410 West County Road,													
EPI Phone#/Fax# 505-394-3481 / 505-394-2601		Hobbs, NM 88240													
Client Company ConocoPhillips															
Facility Name Warren McKee #23															
Project Reference 150012															
EPI Sampler Name Cody Fisher															

SAMPLE I.D.	# CONTAINERS	MATRIX					PRESERV.			SAMPLING		TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO ₄)	PH	TCLP	OTHER >>>	PAH	
		GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE										
LAB ID# 562-202																					
1 B-1 (6')	G 1			X									X	X	X						
2 B-1 (9')	G 1			X									X	X	X						
3 B-2 (6')	G 1			X									X	X	X						
4 B-3 (4')	G 1			X									X	X	X						
5																					
6																					
7																					
8																					
9																					
10																					

Sample Relinquished by: J. Fisher	Received By: J. Fisher	Date: 7/22/05	Time: 7:32
Relinquished by:	Received By: (lab staff)	Date:	Time:
Delivered by:	Sample Cool & Intact: Yes	No	Checked By:

E-mail results to: loiness@hotmail.com or John.L.Abray@conocophillips.com	
REMARKS: Fax Results to Roger Boone (EPI) @ 505-394-2601 -2.5.c	

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: EPI

Date/Time: 7/22/05 13:21

Order #: SG22012

Initials: CR

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	<u>2.5</u> 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?	☒ 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:



ARDINAL 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: IAIN OLNESS

P.O. BOX 1558

EUNICE, NM 88231

FAX TO: (505) 394-2601

Receiving Date: 08/12/05

Reporting Date: 08/12/05

Project Owner: CONOCO PHILLIPS

Project Name: MEYER B-4 #24

Project Location: NOT GIVEN

Analysis Date: 08/12/05

Sampling Date: 08/11/05

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: AH

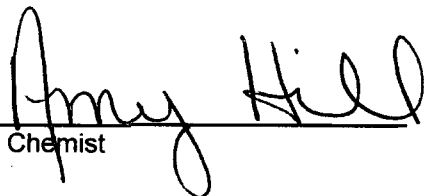
Analyzed By: AH

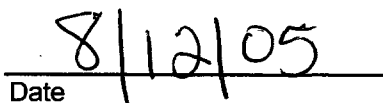
LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/Kg)
H10078-1	SP-1 (4')	1024
H10078-2	SP-2 (5')	80
H10078-3	SP-3 (4')	80
Quality Control		970
True Value QC		1000
% Recovery		97.0
Relative Percent Difference		3.0

METHOD: Standard Methods

4500-Cl⁻B

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


Chemist


Date

APPENDIX II

PROJECT PHOTOGRAPHS

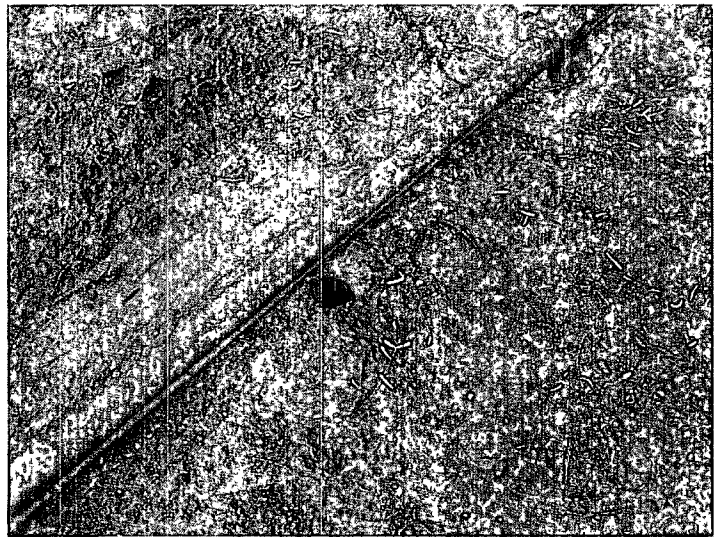
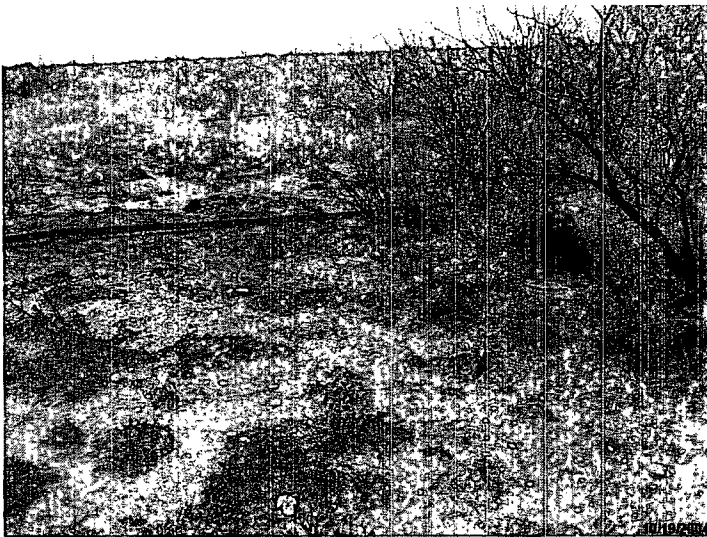


Photo #1: Release area, looking northerly at point of release. **Photo #2:** Looking down on release area. Soil staining indicates contamination.

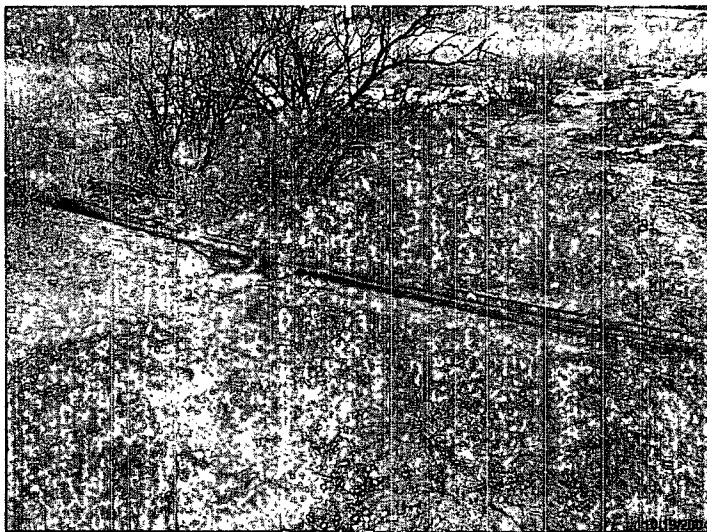


Photo #3: Release area, looking southerly.

Photo #4: Looking southerly at southeast side of excavation.

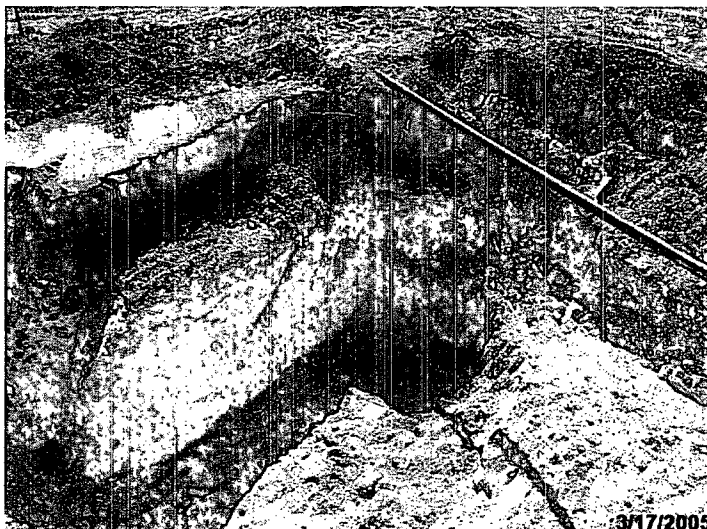


Photo #5: Looking northerly at north end of excavation.

Photo #6: Looking southerly at south end of excavation.



Photo #7: Looking northerly at site backfilled and graded.



Photo #8: Looking northerly at site backfilled and graded.

APPENDIX III
SOIL BORING LOG

(NOTE - Page 1 of 1)



Description

Sample # and Time	Sample Type	Recovery (Inches)	Moisture	PID Readings (ppm)	U.S.C.S. Symbol	Depth (feet)	Start Date: <u>10/27/04</u> Time: <u>0815 hrs</u> Completion Date: <u>10/27/04</u> Time: <u>0930 hrs</u> Description
0817	Grab	NA	Da	228	SP		SAND
						5	
0837	CS	6	Dry	89.7	Caliche		
							Caliche
						10	
0927	Cuttings	NA	Dry	74.8	Rock		Limestone
							End of Boring at 12.0'
						15	
						20	
						25	
						30	

Field Representative: MG

Date	Time	Sample Depth	Casing Depth	Cave-in Depth	Water Level
10/27/04	-	-	-	-	-
-	-	-	-	-	-

APPENDIX IV

CLAY LINER COMPACTION RESULTS



LABORATORY TEST REPORT
PETTIGREW & ASSOCIATES, P.A.
1110 N. GRIMES
HOBBS, NM 88240
(505) 393-9827



DEBRA P. HICKS, P.E./L.S.I.
WILLIAM M. HICKS, III, P.E./P.S.

To: Environmental Plus
Attn: Roger Boone
P.O. Box 1558
Eunice, NM 88231

Material: Red Clay

Test Method: ASTM: D 2922

Project: Conoco B4-24

Date of Test: December 13, 2005

Depth: Finished Subgrade

Reading Depth: 1'

Test No.	Location	Dry Density % Maximum	% Moisture	Depth
SG 1	10' E. & 25' N. of the SW Corner	100.3	13.2	
SG 2	8' W. & 25' S. of the NE Corner	98.4	13.9	

Control Density: 106.0
ASTM: D 698

Optimum Moisture: 18.8%

Required Compaction: 95%

Lab No.: 05 11096-11099

PETTIGREW & ASSOCIATES

Copies To: Enviromental Plus

BY: Debra P. Hicks **P.E.**



LABORATORY TEST REPORT
PETTIGREW & ASSOCIATES, P.A.
1110 N. GRIMES
HOBBS, NM 88240
(505) 393-9827



DEBRA P. HICKS, P.E./L.S.I.
WILLIAM M. HICKS, III, P.E./P.S.

To: Environmental Plus
Attn: Roger Boone
P.O. Box 1558
Eunice, NM 88231

Material: Red Clay

Test Method: ASTM: D 2922

Project: Conoco B4-24

Date of Test: December 14, 2005

Depth: 3' Below Finished Subgrade

Test No.	Location	Dry Density % Maximum	% Moisture	Depth
SG 3	10' E. & 25' S. of the NW Corner	97.3	14.0	
SG 4	20' N. & 12' E. of the SE Corner	98.7	13.2	

Control Density: 106.0
ASTM: D 698

Optimum Moisture: 18.8%

Required Compaction: 95%

Lab No.: 05 11100-11102

PETTIGREW & ASSOCIATES

Copies To: Enviromental Plus

BY: Debra Hicks P.E.

APPENDIX V

FINAL NMOCD C-141 FORM

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised March 17, 1999

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company ConocoPhillips	Contact John Abney
Address 1410 N. West County Rd. Hobbs NM	Telephone No. 505-391-3128
Facility Name Meyer B-4 #24	Facility Type 2" Flowline

API# 30025 04485 0000

Surface Owner Millard Deck Estate	Mineral Owner	API No. 30-025-044850
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LOCATION OF RELEASE

1 RP-896

Unit Letter H	Section 4	Township T21S	Range R36E	Feet from the North/South Line	Feet from the East/West Line	County: Lea Lat. N 32° 30' 45.8" Lon. W 103° 15' 51.0"
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NATURE OF RELEASE

Type of Release Oil and Produced Water	Volume of Release 13 barrels	Volume Recovered 0 barrels
Source of Release Leaking union on 2" steel flowline	Date and Hour of Occurrence 22 September 2004 @ 0800 hrs	Date and Hour of Discovery 24 September 2004 @ 1100 hrs
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	When?	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. NA	

If a Watercourse was Impacted, Describe Fully.*
NA

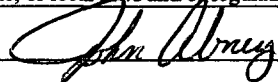
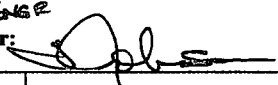
Describe Cause of Problem and Remedial Action Taken.*

2" steel union began leaking, due to partially plugged flowline. Upon discovery, line was shut in and repaired.

Describe Area Affected and Cleanup Action Taken.*

Spill area of approximately 10' X 59' and 15' X 26' overspray area. The final excavated area comprised ~2,500 sq. ft to a maximum depth of 8-ft bgs. Approximately 500 yd³ of soil impacted above the NMOCD Remedial Guidelines was disposed of at J & L Landfarm. Residual chloride impacted soil was isolated with a one-foot thick clay barrier installed on the excavation floor. Approximately 500 yd³ of clean soil was purchased from the landowner and utilized as backfill. Remedial Goals: TPH = 5,000 mg/Kg, benzene = 10 mg/Kg, and BTEX = 50 mg/Kg.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public 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: John Abney	Approved by District Supervisor: 	
E-mail Address: John.H.Abney@ConocoPhillips.com	Approval Date: 5-24-06	Expiration Date:
Title: S.H.E.A.R. Specialist	Conditions of Approval:	Attached ☐
Date: Phone: 505-391-3128		

* Attach Additional Sheets If Necessary