

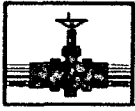
**1R - 0468**

**436**

**REPORTS**

**DATE:**

**2007**



**PLAINS  
ALL AMERICAN**

1R-436  
Report  
2007

November 16, 2007

Mr. Wayne Price  
New Mexico Oil Conservation Division  
Environmental Bureau  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Re: Plains All American – Annual Monitoring Report and Final Site Closure Request  
1 Site in Lea County, New Mexico  
NMOCD Ref# 1R-0436

Dear Mr. Price:

Plains All American is an operator of crude oil pipelines and terminal facilities in the state of New Mexico. Plains All American actively monitors certain historical release sites exhibiting groundwater impacts, consistent with assessments and work plans developed in consultation with the New Mexico Oil Conservation Division (NMOCD). In accordance with the rules and regulations of the NMOCD, Plains All American hereby submits our Annual Monitoring report and Final Site Closure Request for the following site:

Walter "Bubba" Norris                      Section 10, Township 17 South, Range 37 East, Lea County

CRA prepared this document and has vouched for its accuracy and completeness, and on behalf of Plains All American, I have personally reviewed the document and interviewed CRA in order to verify the accuracy and completeness of this document. It is based upon these inquiries and reviews that Plains All American submits the enclosed Annual Monitoring Report and Final Site Closure Request for the above facility.

If you have any questions or require further information, please contact me at (505) 441-0965.

Sincerely,

Camille Reynolds  
Remediation Coordinator  
Plains All American

CC: Larry Johnson, NMOCD, Hobbs, NM

Enclosures



1R-0436

Report  
2007

## 2007 ANNUAL GROUNDWATER MONITORING REPORT AND FINAL SITE CLOSURE REQUEST

WALTER "BUBBA" NORRIS SITE

NMOCD NO. 1R-0436

PLAINS EMS NO. 2000-10500

SE/4, SW/4, SECTION 10, T-17-S, R-37-E

LATITUDE: N 32° 50' 42" LONGITUDE: W 103° 14' 23"

LEA COUNTY, NEW MEXICO



## **2007 ANNUAL GROUNDWATER MONITORING REPORT AND FINAL SITE CLOSURE REQUEST**

**WALTER "BUBBA" NORRIS SITE**

**NMOCD NO. 1R-0436**

**PLAINS EMS NO. 2000-10500**

**SE/4, SW/4, SECTION 10, T-17-S, R-37-E**

**LATITUDE: N 32° 50' 42" LONGITUDE: W 103° 14' 23"**

**LEA COUNTY, NEW MEXICO**

**Prepared For:**

**Ms. Camille Reynolds**

**PLAINS PIPELINE, L.P.**

**3112 West U.S. Hwy 82**

**Lovington, New Mexico 88260**

**Prepared by:  
Conestoga-Rovers  
& Associates**

2135 S Loop 250 West  
Midland, Texas 79703

Office: 432-686-0086  
Fax: 432-686-0186

**NOVEMBER 1, 2007  
REF. NO. 041671 (3)**

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## 1.0 INTRODUCTION

This Annual Groundwater Monitoring Report and Final Site Closure Request presents groundwater monitoring data collected at the Walter "Bubba" Norris site (hereafter referred to as the "Site") by Conestoga-Rovers & Associates (CRA) on behalf of Plains Pipeline, L.P. (Plains). Annual groundwater monitoring activities were performed on June 28, 2007. The objective of this report is to demonstrate hydrocarbon concentrations in groundwater to be below regulatory protections limits and receive New Mexico Oil Conservation Division (NMOCD) concurrence for closure and no further action at the Site.

The Site is located in Lea County, New Mexico (FIGURE 1) and is associated with a crude oil pipeline release. The legal description of the Site is the SE/4, SW/4 of Section 10, T-17-S and R-37-E Lea County, New Mexico. The subject release occurred on July 6, 2000 and the line was subsequently de-oiled and taken out-of-service. A NMOCD Form C-141 (Release Notification and Corrective Action) indicated the crude oil release consisted of 75 barrels released with 40 barrels recovered (APPENDIX B). A Site details map is presented as FIGURE 2.

Previous assessment activities were performed at the Site by Environmental Technology Group, Inc. (ETGI). A *Preliminary Site Investigation Report and Remediation Work Plan* (ETGI, September 2000) outlined activities associated with the preliminary site investigation and presented means for closure. Remedial excavation activities were performed and the hydrocarbon impacted area was delineated to the extent of approximately 150 feet by 100 feet east of the pipeline release point and approximately seven feet below ground surface (bgs). Six soil borings were also advanced to determine the nature and extent of crude oil impact as a result of the pipeline release. In addition to surface staining, hydrocarbon impact was encountered in soil boring SB-3 from 38 feet to 55 feet bgs. However, ETGI determined that the deeper impacted interval did not appear to be contributable to the subject pipeline release. A groundwater sample was also collected from soil boring SB-3 and the analytical results indicated no hydrocarbon impacts exceeded New Mexico Water Quality Control Commission (NMWQCC) standards.

On March 4, 2004, Link Energy (preceding the Plains acquisition) submitted a *Final Closure Request* to the NMOCD and presented historical data and a summary of the remedial activities. During the remedial activities, approximately 4,529 cubic yards of RCRA Non-Exempt Non-Hazardous impacted soil was excavated by ETGI and remediated onsite by N Diamond Environmental (landowner, Mr. Walter "Bubba" Norris). Subsequent to the *Final Closure Request* submittal and verbal correspondence with NMOCD personnel, a *Work Plan for the Installation of Groundwater Monitor Wells* was submitted (ETGI, April 28, 2004) to evaluate groundwater and soil conditions at the Site.

On May 20, 2004, ETGI mobilized to the Site and conducted soil and groundwater assessment activities including the installation of monitor wells MW-1, MW-2, and MW-3. Soil and groundwater hydrocarbon impacts were encountered in excess of NMOCD regulatory guidelines and the results were presented in the *Soil and Groundwater Assessment Report* (CRA, August 13, 2004). The Site is currently monitored annually at the request of the NMOCD under the direction of CRA. Annual groundwater monitoring activities performed in 2006 were presented in the *2006 Annual Groundwater Monitoring Report and Site Closure Request* (CRA, July 2006).

## 2.0 REGULATORY FRAMEWORK

The NMOCD has regulatory jurisdiction over oil and gas production operations including crude oil pipeline spills and closure activities in the State of New Mexico. This project was conducted under the regulatory jurisdiction of the NMOCD, which requires that soil impacted by a crude oil spill be remediated in such a manner that the potential for future affects to groundwater or the environment are minimized. The NMOCD hydrocarbon soil remediation levels are determined by ranking criteria on a site-by-site basis, which is outlined in the NMOCD *Guidelines for Remediation of Spills, Leaks, and Releases*, dated August 13, 1993. The ranking criteria are based on three site characteristics: depth to groundwater, wellhead protection and distance to surface water.

The NMOCD guidelines require groundwater to be analyzed for potential contaminants contained in the waste stream as defined by the New Mexico Water Quality Control Commission (NMWQCC) regulations. In addition, the NMWQCC regulations present the Human Health Standards for Groundwater. Groundwater samples collected as part of monitoring activities were evaluated utilizing NMWQCC Standards for the following analytical parameters:

**NMWQCC Human Health Standards for Groundwater**

<b>Constituent of Concern</b>	<b>Concentration (mg/L)</b>
Benzene	0.01
Toluene	0.75
Ethylbenzene	0.75
Total Xylenes	0.62

Under Subsection K (Completion and Termination) of Section 19.15.1.19 NMAC, abatement shall be considered complete when the standards and requirements set forth in Subsection B of Section 19.15.1.19 NMAC are met.

### 3.0 GROUNDWATER MONITORING AND SAMPLING

One groundwater monitoring event was conducted during the 2007 calendar year (June 28, 2007).

#### 3.1 FIELD METHODOLOGY

The Site is monitored with a network of three monitor wells (MW-1, MW-2 and MW-3). Prior to purging the wells, static fluid levels were measured with an electric interface probe to the nearest hundredth of a foot. After recording fluid levels, samples were collected using the low-flow methodology described in the document "Low-Flow (Minimal Drawdown) Ground-Water Sampling Procedures" (EPA/504/S-95/504). The intake of a non-dedicated bladder pump was lowered to approximately two-feet below the groundwater surface. Purging was considered complete when the geochemical field parameters (pH, temperature and conductivity) stabilized to  $\pm 10\%$ . New disposable pump tubing was used to purge and sample each well. The bladder pump was decontaminated with a Liquinox® soap and potable water wash, a potable water rinse and a final deionized water rinse to minimize potential cross-contamination between each monitor well. Following the purging process, laboratory-supplied sample containers were filled directly from the bladder pump discharge tubing.

Groundwater samples were placed on ice in insulated coolers and chilled to a temperature of approximately 4°C (40°F). The coolers were sealed for shipment and proper chain-of-custody documentation accompanied the samples to the laboratory (TraceAnalysis, Inc. located in Lubbock, Texas) for BTEX analysis by EPA Method 8021B. The fluids recovered during the sampling event were containerized in sealed onsite drums.

#### 3.2 GROUNDWATER ANALYTICAL RESULTS

Groundwater gauging data is presented in TABLE I. Depth to groundwater in the three monitor wells ranged from 68.83 feet to 69.17 feet below the top of casing on June 28, 2007. Groundwater flow at the Site has remained consistent and is toward the east-southeast at approximately 0.002 feet/foot. A groundwater gradient map for June 2007 is presented as FIGURE 3.

Groundwater analytical results are summarized in TABLE II and presented on FIGURE 4. BTEX concentrations were below NMWQCC groundwater standards during the June 2007 sampling event in all three monitor wells. A copy of the certified analytical report and chain-of-custody documentation is attached in APPENDIX A.

#### 4.0 SUMMARY OF FINDINGS

Based on historical data review and groundwater monitoring activities performed at the Site, CRA presents the following summary of findings:

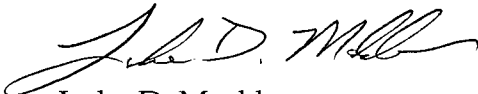
- The Walter "Bubba" Norris crude oil pipeline release site is located in Lea County, New Mexico. The legal description of the Site is the SE/4, SW/4 of Section 10, T-17-S and R-37-E. The subject release occurred on July 6, 2000 and the line was subsequently de-oiled and taken out of service. A NMOCD Form C-141 indicated the crude oil release consisted of 75 barrels released with 40 barrels recovered;
- Previous assessment activities were performed at the Site by ETGI. Historical data and a summary of the remedial activities were submitted to the NMOCD in a *Final Closure Request* (Link Energy, March 4, 2004). During the remedial activities, approximately 4,529 cubic yards of RCRA Non-Exempt Non-Hazardous impacted soil was excavated by ETGI and remediated onsite by N Diamond Environmental. Subsequent to the *Final Closure Request* submittal and verbal correspondence with NMOCD personnel, a *Work Plan for the Installation of Groundwater Monitor Wells* was submitted (ETGI, April 28, 2004);
- On May 20, 2004, ETGI mobilized to the Site and conducted soil and groundwater assessment activities including the installation of monitor wells MW-1, MW-2, and MW-3. Soil and groundwater hydrocarbon impacts were encountered in excess of NMOCD regulatory guidelines and the results were presented in the *Soil and Groundwater Assessment Report* (CRA, August 13, 2004);
- Annual groundwater monitoring activities were performed by CRA on June 9, 2005, June 9, 2006 and June 28, 2007. BTEX concentrations were below NMWQCC groundwater standards during the three annual sampling events in all three monitor wells;
- Site Closure is appropriate based on the results of three consecutive annual groundwater monitoring events below regulatory levels that generally comply with the standards and requirements set forth in Subsection B of Section 19.15.1.19 NMAC.

## 5.0 RECOMMENDATIONS AND SITE CLOSURE REQUEST

Based upon the data and conclusions presented in this report, CRA recommends the following:

- NMOCD approval to plug and abandon (P&A) the Site's network of three monitor wells in accordance with NMOCD guidelines and cease further groundwater monitoring activities;
- Plains will subsequently submit P&A records and request written concurrence from the NMOCD for approved Site Closure activities and No Further Action.

All of Which is Respectfully Submitted,  
**CONESTOGA-ROVERS & ASSOCIATES**



Luke D. Markham  
Project Manager

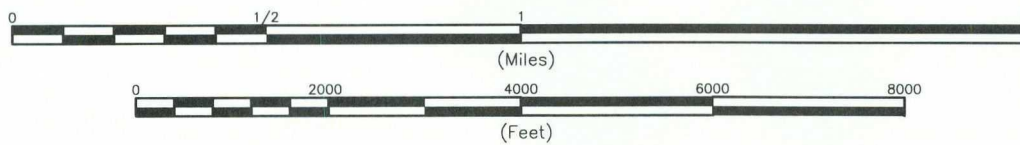
 For:

Thomas C. Larson  
Senior Project Manager

# HUMBLE CITY QUADRANGLE NEW MEXICO

LAT= 32° 50' 42" N  
LONG= 103° 14' 23" W

PHOTOREVISED 1977



NORTH

## SITE LOCATION MAP

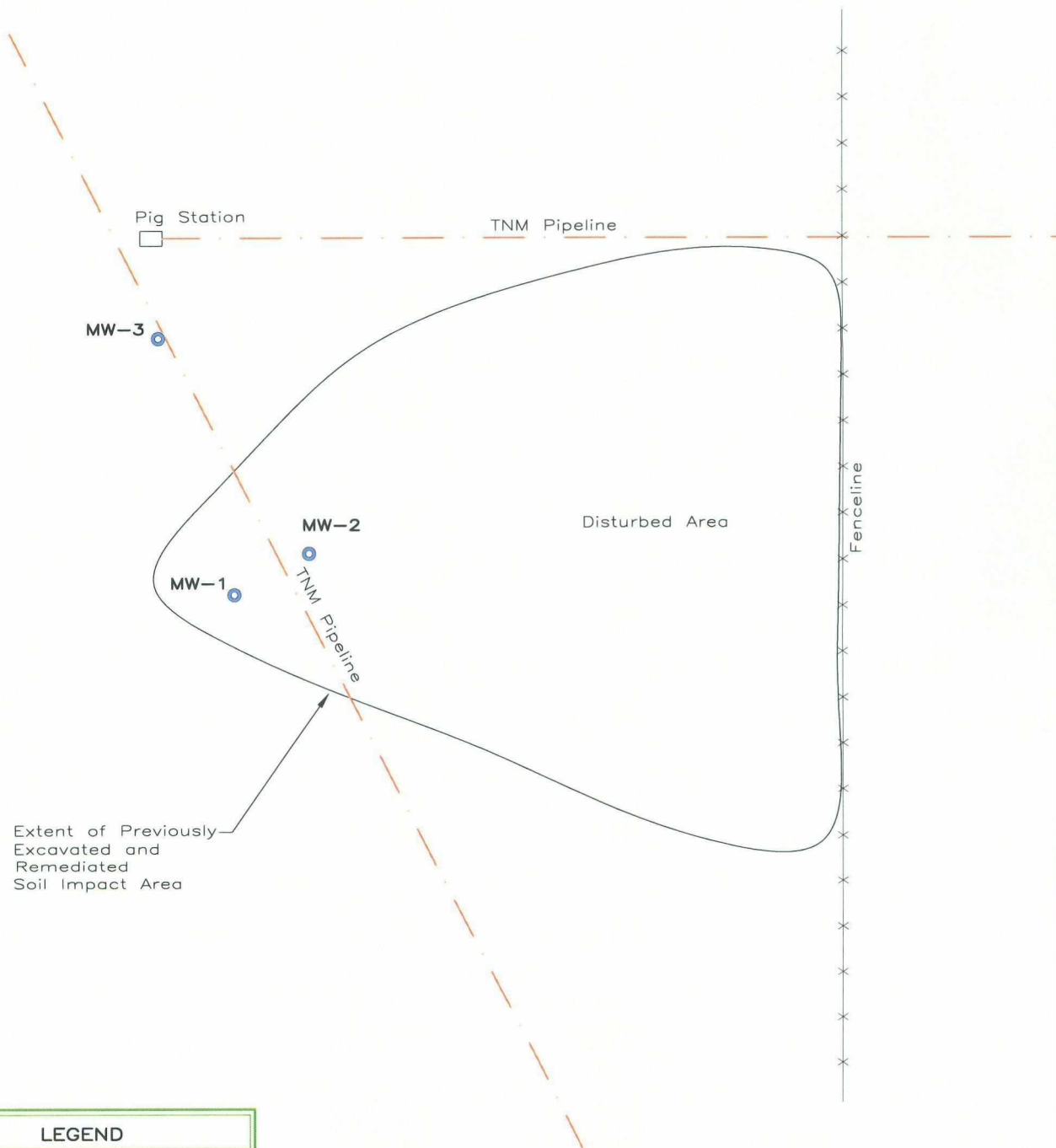
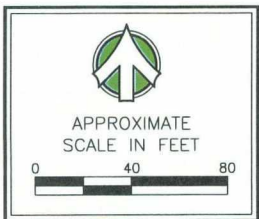
PLAINS PIPELINE, L.P.  
WALTER "BUBBA" NORRIS 2000-10500 LEA COUNTY, NEW MEXICO

JOB No.  
041671

FIGURE  
1

041671 06 SLR 030706





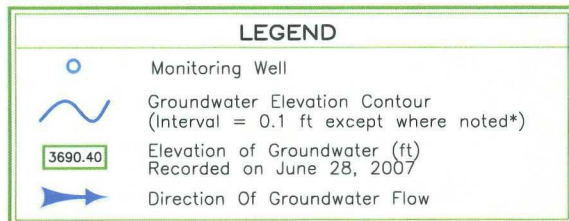
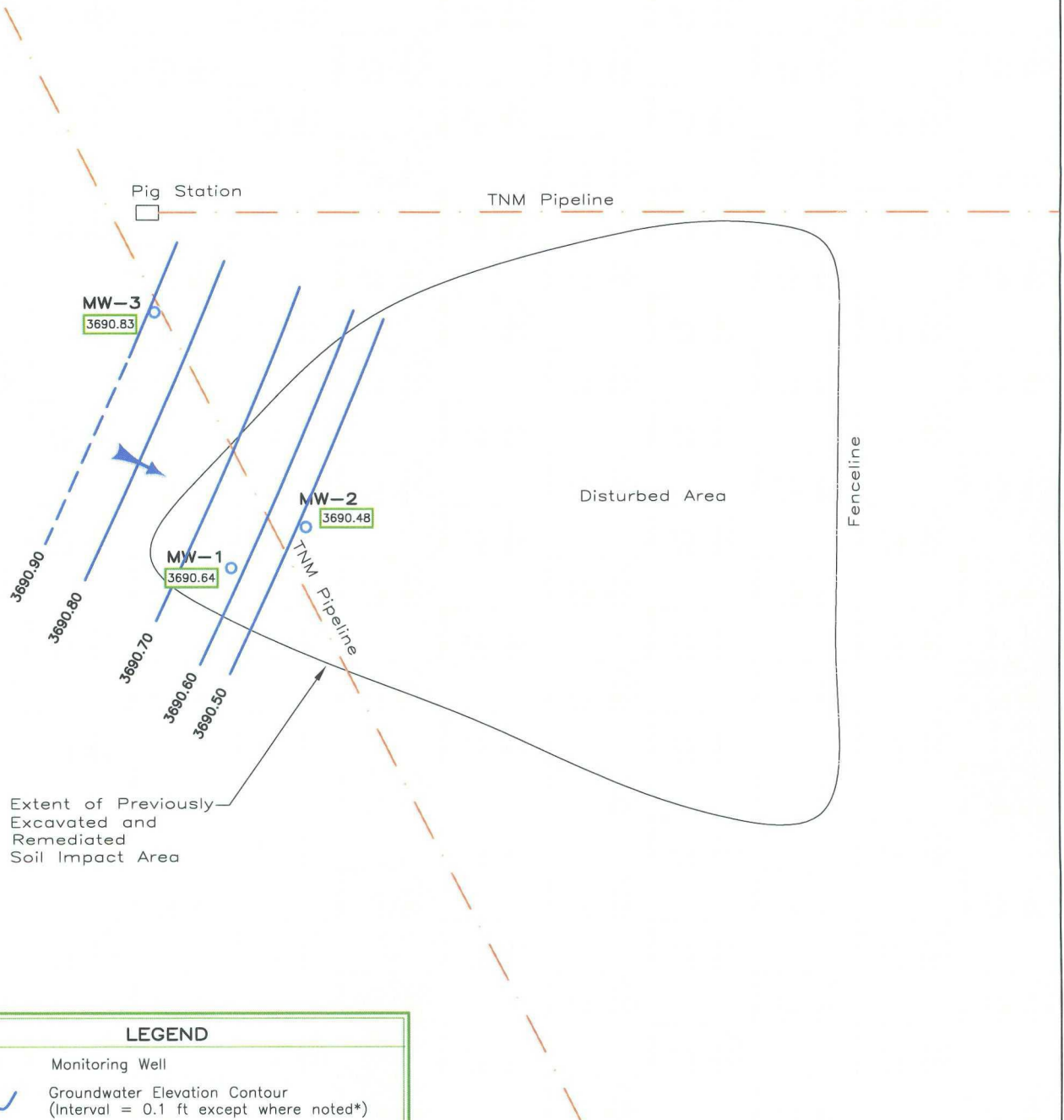
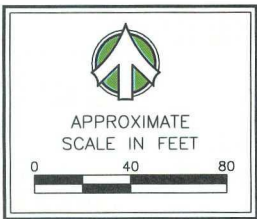
LEGEND	
	Monitoring Well

041671 06 SLR 030706



SITE DETAILS MAP	
PLAINS PIPELINE, L.P.	
WALTER "BUBBA" NORRIS 2000-10500	LEA COUNTY, NEW MEXICO

JOB No. 041671
FIGURE 2



041671 07 SLR 081607

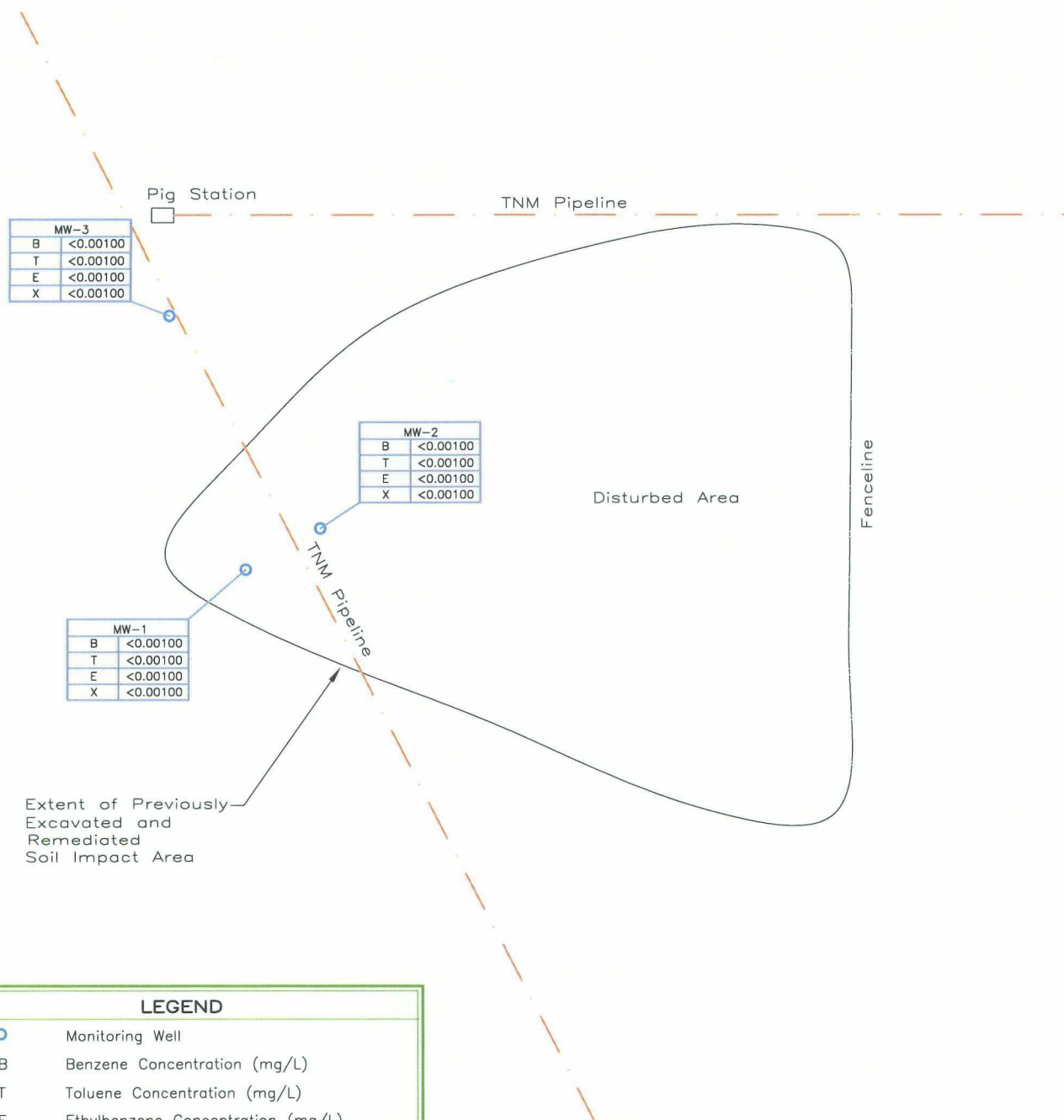
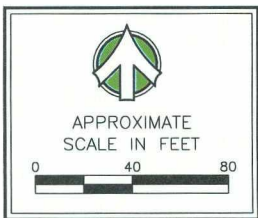


GROUNDWATER GRADIENT MAP - JUNE 2007

PLAINS PIPELINE, L.P.  
WALTER "BUBBA" NORRIS 2000-10500 LEA COUNTY, NEW MEXICO

JOB No.  
041671

FIGURE  
3



#### LEGEND

- Monitoring Well
- B Benzene Concentration (mg/L)
- T Toluene Concentration (mg/L)
- E Ethylbenzene Concentration (mg/L)
- X Xylenes Concentration (mg/L)

Groundwater samples were collected on June 28, 2007.



GROUNDWATER BTEX CONCENTRATION MAP — JUNE 2007

PLAINS PIPELINE, L.P.  
WALTER "BUBBA" NORRIS 2000-10500 LEA COUNTY, NEW MEXICO

JOB No.  
041671

FIGURE  
4

**TABLE I**  
**GROUNDWATER GAUGING SUMMARY**  
**PLAINS PIPELINE, L.P.**  
**WALTER "BUBBA" NORRIS #2000-10500**  
**LEA COUNTY, NEW MEXICO**

Page 1 of 1

Well ID TOC Elevation	Collection Date	Depth to Groundwater (ft TOC)	Depth to LNAPL (ft TOC)	LNAPL Thickness (ft)	Groundwater Elevation (ft)	Well Depth (ft bgs)	Well Screen Interval (ft bgs)
MW-1 3759.72	6/2/04	67.89	---	---	3691.83	78.00	63 - 78
	6/9/05	68.35	---	---	3691.37	---	---
	6/9/06	69.11	---	---	3690.61	---	---
	6/28/07	69.08	---	---	3690.64	---	---
MW-2 3759.31	6/2/04	67.95	---	---	3691.36	78.00	58 - 78
	6/9/05	68.14	---	---	3691.17	---	---
	6/9/06	68.91	---	---	3690.40	---	---
	6/28/07	68.83	---	---	3690.48	---	---
MW-3 3760.00	6/2/04	67.97	---	---	3692.03	78.00	58 - 78
	6/9/05	68.50	---	---	3691.50	---	---
	6/9/06	69.31	---	---	3690.69	---	---
	6/28/07	69.17	---	---	3690.83	---	---

**Notes:**

1. TOC - Top of Casing.
2. LNAPL - Light non-aqueous phase liquid.
3. bgs - below ground surface.

TABLE II  
GROUNDWATER ANALYTICAL SUMMARY  
PLAINS PIPELINE, L.P.  
WALTER "BUBBA" NORRIS #2000-10500  
LEA COUNTY, NEW MEXICO

Page 1 of 1

Sample ID	Sample Date	Benzene	Toluene	Ethyl-Benzene	Total Xylenes	TPH		
						GRO	DRO	Total
New Mexico Water Quality Control Commission Standard								
		0.01	0.75	0.75	0.62	---	---	---
MW-1	6/2/04	0.0255	0.0234	0.0034	0.00494	<0.5	<0.5	<1.0
	6/9/05	<0.00100	<0.00100	<0.00100	<0.00100	---	---	---
	6/9/06	<0.00100	<0.00100	<0.00100	<0.00100	---	---	---
	6/28/07	<0.00100	<0.00100	<0.00100	<0.00100	---	---	---
MW-2	6/2/04	0.01930	0.0204	0.00315	0.00449	<0.5	0.829	0.829
	6/9/05	<0.00100	<0.00100	<0.00100	<0.00100	---	---	---
	6/9/06	<0.00100	<0.00100	<0.00100	<0.00100	---	---	---
	6/28/07	<0.00100	<0.00100	<0.00100	<0.00100	---	---	---
MW-3	6/2/04	0.00526	0.01510	0.00428	0.00574	<0.05	1.12	1.12
	6/9/05	<0.00100	<0.00100	<0.00100	<0.00100	---	---	---
	6/9/06	<0.00100	<0.00100	<0.00100	<0.00100	---	---	---
	6/28/07	<0.00100	<0.00100	<0.00100	<0.00100	---	---	---

**Notes:**

1. Shaded cells indicate New Mexico Water Quality Control Commission (NMWQCC) exceedance.
2. BTEX analysis by EPA Method 8260B in 2004; BTEX analysis by EPA Method 8021B in 2005 and 2006.
3. TPH (GRO/DRO) analysis by EPA Method 8015 Modified.
4. Results shown in mg/L.

APPENDIX A

CERTIFIED LABORATORY REPORTS AND CHAIN-OF-CUSTODIES

## Summary Report

Luke Markham  
CRA-Midland  
2135 South Loop 250 West  
Midland, TX, 79703

Report Date: July 2, 2007

Work Order: 7062819



Project Location: Bubba Norris  
Project Name: Plains all American  
Project Number: 041671  
SRS#: 2000-10500

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
128751	MW162807	water	2007-06-28	12:30	2007-06-28
128752	MW262807	water	2007-06-28	12:20	2007-06-28
128753	MW362807	water	2007-06-28	12:10	2007-06-28
128754	Trip Blank	water	2007-06-28	00:00	2007-06-28

Sample - Field Code	BTEX				MTBE
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	MTBE (mg/L)
128751 - MW162807	<0.00100	<0.00100	<0.00100	<0.00100	
128752 - MW262807	<0.00100	<0.00100	<0.00100	<0.00100	
128753 - MW362807	<0.00100	<0.00100	<0.00100	<0.00100	
128754 - Trip Blank	<0.00100	<0.00100	<0.00100	<0.00100	



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298  
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944  
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313  
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260  
E-Mail: lab@traceanalysis.com

## Analytical and Quality Control Report

Luke Markham  
CRA-Midland  
2135 South Loop 250 West  
Midland, TX, 79703

Report Date: July 2, 2007

Work Order: 7062819



Project Location: Bubba Norris  
Project Name: Plains all American  
Project Number: 041671  
SRS#: 2000-10500

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
128751	MW162807	water	2007-06-28	12:30	2007-06-28
128752	MW262807	water	2007-06-28	12:20	2007-06-28
128753	MW362807	water	2007-06-28	12:10	2007-06-28
128754	Trip Blank	water	2007-06-28	00:00	2007-06-28

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 5 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

### Standard Flags

**B** - The sample contains less than ten times the concentration found in the method blank.

# Analytical Report

**Sample: 128751 - MW162807**Analysis: BTEX  
QC Batch: 38675  
Prep Batch: 33475Analytical Method: S 8021B  
Date Analyzed: 2007-06-29  
Sample Preparation: 2007-06-29Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0748	mg/L	1	0.100	75	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0732	mg/L	1	0.100	73	22.2 - 104.5

**Sample: 128752 - MW262807**Analysis: BTEX  
QC Batch: 38675  
Prep Batch: 33475Analytical Method: S 8021B  
Date Analyzed: 2007-06-29  
Sample Preparation: 2007-06-29Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0740	mg/L	1	0.100	74	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0727	mg/L	1	0.100	73	22.2 - 104.5

**Sample: 128753 - MW362807**Analysis: BTEX  
QC Batch: 38675  
Prep Batch: 33475Analytical Method: S 8021B  
Date Analyzed: 2007-06-29  
Sample Preparation: 2007-06-29Prep Method: S 5030B  
Analyzed By: AG  
Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0721	mg/L	1	0.100	72	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0725	mg/L	1	0.100	72	22.2 - 104.5

**Sample: 128754 - Trip Blank**

Analysis: BTEX      Analytical Method: S 8021B      Prep Method: S 5030B  
QC Batch: 38675      Date Analyzed: 2007-06-29      Analyzed By: AG  
Prep Batch: 33475      Sample Preparation: 2007-06-29      Prepared By: AG

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0734	mg/L	1	0.100	73	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0734	mg/L	1	0.100	73	22.2 - 104.5

**Method Blank (1)**      QC Batch: 38675

QC Batch: 38675      Date Analyzed: 2007-06-29      Analyzed By: AG  
Prep Batch: 33475      QC Preparation: 2007-06-29      Prepared By: AG

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000200	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000200	mg/L	0.001
Xylene		<0.000300	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0764	mg/L	1	0.100	76	60.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0747	mg/L	1	0.100	75	54.4 - 112.5

**Laboratory Control Spike (LCS-1)**

QC Batch: 38675      Date Analyzed: 2007-06-29      Analyzed By: AG  
Prep Batch: 33475      QC Preparation: 2007-06-29      Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0931	mg/L	1	0.100	<0.000200	93	76.4 - 120.5
Toluene	0.0927	mg/L	1	0.100	<0.000200	93	79.2 - 117.8

*continued ...*

*control spikes continued ...*

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Ethylbenzene	0.0866	mg/L	1	0.100	<0.000200	87	78.8 - 117.9
Xylene	0.261	mg/L	1	0.300	<0.000300	87	80 - 120.1

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0933	mg/L	1	0.100	<0.000200	93	76.4 - 120.5	0	20
Toluene	0.0948	mg/L	1	0.100	<0.000200	95	79.2 - 117.8	2	20
Ethylbenzene	0.0893	mg/L	1	0.100	<0.000200	89	78.8 - 117.9	3	20
Xylene	0.269	mg/L	1	0.300	<0.000300	90	80 - 120.1	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0680	0.0668	mg/L	1	0.100	68	67	59.5 - 117.8
4-Bromofluorobenzene (4-BFB)	0.0775	0.0760	mg/L	1	0.100	78	76	63.2 - 122.4

**Matrix Spike (MS-1)** Spiked Sample: 128760

QC Batch: 38675  
Prep Batch: 33475

Date Analyzed: 2007-06-29  
QC Preparation: 2007-06-29

Analyzed By: AG  
Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0976	mg/L	1	0.100	<0.000200	98	75.9 - 114.2
Toluene	0.0983	mg/L	1	0.100	<0.000200	98	78.7 - 111.8
Ethylbenzene	0.0940	mg/L	1	0.100	<0.000200	94	78.3 - 112.3
Xylene	0.282	mg/L	1	0.300	<0.000300	94	79.3 - 114.8

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0994	mg/L	1	0.100	<0.000200	99	75.9 - 114.2	2	20
Toluene	0.102	mg/L	1	0.100	<0.000200	102	78.7 - 111.8	4	20
Ethylbenzene	0.0978	mg/L	1	0.100	<0.000200	98	78.3 - 112.3	4	20
Xylene	0.294	mg/L	1	0.300	<0.000300	98	79.3 - 114.8	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0639	0.0671	mg/L	1	0.1	64	67	43.9 - 121.4
4-Bromofluorobenzene (4-BFB)	0.0772	0.0783	mg/L	1	0.1	77	78	54.2 - 120.1

**Standard (ICV-1)**

QC Batch: 38675

Date Analyzed: 2007-06-29

Analyzed By: AG

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0915	92	85 - 115	2007-06-29
Toluene		mg/L	0.100	0.0937	94	85 - 115	2007-06-29
Ethylbenzene		mg/L	0.100	0.0878	88	85 - 115	2007-06-29
Xylene		mg/L	0.300	0.265	88	85 - 115	2007-06-29

**Standard (CCV-1)**

QC Batch: 38675

Date Analyzed: 2007-06-29

Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0906	91	85 - 115	2007-06-29
Toluene		mg/L	0.100	0.0923	92	85 - 115	2007-06-29
Ethylbenzene		mg/L	0.100	0.0869	87	85 - 115	2007-06-29
Xylene		mg/L	0.300	0.262	87	85 - 115	2007-06-29



APPENDIX B

REGULATORY CORRESPONDENCE (FORM C-141)

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 South First, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
2040 South Pacheco  
Santa Fe, NM 87505

2000-10300

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 <b>EOTT Energy Pipeline Limited Partnership</b>	Contact <b>Glen Waldrop</b>
Address <b>P.O. Box 1660, Midland, TX 79702</b>	Telephone No. <b>915/684-3453</b>
Facility Name <b>Dean 6"</b>	Facility Type <b>Pipeline</b>

Surface Owner <b>Walter Norris</b>	Mineral Owner	Lease No.
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LOCATION OF RELEASE

Unit Letter	Section 9&10	Township 16S	Range 37E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
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NATURE OF RELEASE

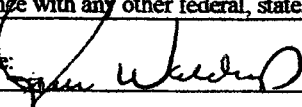
Type of Release <b>Crude Oil</b>	Volume of Release <b>75 barrels</b>	Volume Recovered <b>40 barrels</b>
Source of Release <b>Pipeline</b>	Date and Hour of Occurrence <b>July 6, 2000</b>	Date and Hour of Discovery <b>12:50 PM</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Donna Williams</b>	
By Whom? <b>Wayne Brunette</b>	Date and Hour <b>July 6, 2000, 1:30 pm</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.\*  
**N/A**

Describe Cause of Problem and Remedial Action Taken.\*  
**Release was caused by internal corrosion. Leak was clamped off.**

Describe Area Affected and Cleanup Action Taken.\*  
**Remediation will be handled by ENTRIX.**

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: 

Printed Name: **Glen Waldrop**

Title: **District Manager**

Date: **July 17, 2000** Phone: **915/684-3453**

OIL CONSERVATION DIVISION

Approved by  
District Supervisor:

Approval Date:

Expiration Date:

Conditions of Approval:

Attached ☐

\* Attach Additional Sheets If Necessary