AP - 36

ANNUAL MONITORING REPORT

YEAR(S):

2004

TNM 97-23

NE ¼ OF THE NE ¼ OF SECTION 14
TOWNSHIP 22 SOUTH, RANGE 37 EAST
NW ¼ OF THE NE ¼ OF SECTION 14
TOWNSHIP 22 SOUTH, RANGE 37 EAST
PLAINS EMS NUMBER: TNM 97-23
LEA COUNTY, NEW MEXICO

AP-036
~~HR-139~~

2004
Annual Groundwater Monitoring Report

April 2005

PLAINS MARKETING, L.P.
HOUSTON, TEXAS

Prepared By:

BBC International, Inc.
World-Wide Environmental Specialists
Hobbs, New Mexico

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INTRODUCTION

On behalf of Plains Marketing, L.P. (Plains), BBC International, Inc. (BBC) is pleased to submit this Annual Monitoring Report in compliance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an Annual Monitoring Report by April 1 of each year. Beginning on October 19, 2004, project management responsibilities were assumed by BBC. The site was previously managed by Environmental Technology Group, Inc (ETGI), then NOVA Safety and Environmental. The LF-37 pipeline release site, which was formerly the responsibility of Link Energy, is now the responsibility of Plains. This report is intended to be viewed as a complete document with text, figures, tables, and appendices. The report presents the results of the quarterly groundwater monitoring events conducted in calendar year 2004 only. For reference, the Site Location Map is provided as **Figure 1**.

Groundwater monitoring was conducted in four (4) quarters during the calendar year of 2004 to assess the levels and extent of dissolved phase and Phase Separated Hydrocarbon (PSH) constituents. The groundwater monitoring events consisted of measuring static water levels in the monitor wells and checking for the presence of PSH in all four (4) quarters. The purging and sampling of each well exhibiting sufficient recharge was conducted in the first (1^{st}) and fourth (4^{th}) quarters with one well being sampled every quarter.

A copy of this report with all figures and appendices is included on the enclosed CD.

FIELD ACTIVITES

The site monitor wells were gauged and sampled on February 19, May 13, August 23, and December 27, 2004. No detectable or measurable amounts of PSH were recorded during the monitoring period. During each sampling event, the monitor wells were purged of approximately three well volumes of water or until the wells were dry using a PVC bailer or electrical Grundfos Pump. Groundwater was allowed to recharge and samples were obtained using disposable Teflon samplers. Water samples were collected in clean glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in polystyrene drums and disposed of by BBC utilizing the NMOCD-approved disposal facility near Eunice, NM operated by Sundance Services.

GROUNDWATER GRADIENT

Locations of the monitor wells and the inferred groundwater gradient, constructed from measurements collected during quarterly sampling events are depicted on **Figures 2-5**, the Inferred Groundwater Gradient Maps. Cumulative groundwater elevation data is provided as **Table 1**. Groundwater elevations contours, generated from water level measurements acquired during the quarterly sampling events of 2004, indicated a general gradient of approximately 0.005 ft/ft to the south southeast as measured between groundwater monitor wells MW-2 and MW-3. The depth to groundwater as

measured from the top of the well casing ranged between 56.26 to 62.30 feet for the shallow alluvial aquifer.

LABORATORY RESULTS

Groundwater samples collected during the first three quarters of 2004 monitoring events were delivered to AnalySys Inc. of Austin Texas for determination of Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) constituent concentrations by EPA Method SW 846-8260b. Fourth quarter sample analysis was performed by Trace Analysis, Inc. of Lubbock, Texas for determination of BTEX constituent concentrations by EPA Method SW846-8260b. A cumulative listing of BTEX constituent concentrations is summarized in **Table 2**. Copies of the laboratory reports generated during this reporting period are provided as **Appendix I-IV**. Quarterly groundwater sample results reflecting benzene and BTEX constituent concentrations are depicted on **Figures 6-9**, the BTEX Concentration Maps.

Review of laboratory analytical results generated from analysis of the groundwater samples obtained during the 2004 monitoring period indicate that benzene and BTEX constituent concentrations are below NMOCD regulatory standards (non-detect) in monitor wells MW-1, MW-2, MW-3, MW-4, and MW-5. Toluene was detected in MW-5 in the 4th Quarter at a concentration of 1.22 ppm, which is below the NMOCD regulatory standards. The results are available in **Appendix I-IV**.

Laboratory analytical results were compared to NMOCD regulatory limits based on the New Mexico groundwater standards found in Section 20.6.2.3103 of the New Mexico Administrative Code.

SUMMARY

This report presents the results of groundwater monitoring activities for the annual monitoring period of calendar year 2004. Groundwater elevation contours, generated from water level measurements acquired during the quarterly sampling events of 2004, indicated a general gradient of approximately 0.005 ft/ft to the south as measured between groundwater monitor wells MW-2 and MW-3. See **Figures 2-5**.

Review of laboratory analytical results generated from analysis of the groundwater samples obtained during the 2004 monitoring period indicated that benzene and BTEX constituent concentrations are below NMOCD regulatory standards for the monitor wells. The results are available in **Appendix I-IV**. No detectable or measurable amounts of PSH were recorded during the monitoring period.

The Release Notification and Corrective Action Form (C-141) is provided as **Appendix V**.

CONCLUSION

In compliance with the New Mexico Oil Conservation Division (NMOCD) letter of April 28, 2004, activities in 2005 will include quarterly gauging of the monitor wells, quarterly sampling of MW-4, and annual sampling of MW-1, MW-2, MW-3, and MW-5. A report detailing activities conducted in 2005 will be submitted in April 2006.

LIMITATIONS

BBC has prepared this Annual Monitoring Report to the best of its ability. No other warranty, expressed or implied, is made or intended.

BBC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. BBC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. BBC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. BBC also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Plains. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of BBC and/or Plains.

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Table 1. Groundwater Elevation Data
TNM 97- 23

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 1	11/04/99	3,338.00	-	59.26	0.00	3278.74
	02/25/00	3,338.00	-	59.33	0.00	3,278.67
	06/06/00	3,338.00	-	59.36	0.00	3,278.64
	09/15/00	3,338.00	-	59.42	0.00	3,278.58
	11/30/00	3,338.00	-	59.44	0.00	3,278.56
	03/16/01	3,338.00	-	59.38	0.00	3,278.62
	06/04/01	3,338.00	-	59.39	0.00	3,278.61
	09/24/01	3,338.00	-	59.48	0.00	3,278.52
	10/30/01	3,338.00	-	59.45	0.00	3,278.55
	01/28/02	3,338.00	-	59.54	0.00	3,278.46
	05/21/02	3,338.00	-	59.57	0.00	3,278.43
	09/19/02	3,338.00	-	59.71	0.00	3,278.29
	12/16/02	3,338.00	-	59.64	0.00	3,278.36
	02/24/03	3,338.00	-	59.72	0.00	3,278.28
	05/20/03	3,338.00	-	59.72	0.00	3,278.28
	08/28/03	3,338.00	-	59.74	0.00	3,278.26
	11/26/03	3,338.00	-	59.80	0.00	3,278.20
	02/19/04	3,338.00	-	59.80	0.00	3,278.20
	05/13/04	3,338.00	-	59.84	0.00	3,278.16
	08/23/04	3,338.00	-	59.84	0.00	3,278.16
	12/27/04	3,338.00	-	59.79	0.00	3,278.21
MW - 2	02/25/00	3,336.79	-	58.57	0.00	3,278.22
	06/06/00	3,336.79	-	58.60	0.00	3,278.19
	09/15/00	3,336.79	-	58.66	0.00	3,278.13
	11/30/00	3,336.79	-	58.66	0.00	3,278.13
	03/16/01	3,336.79	-	58.62	0.00	3,278.17
	06/04/01	3,336.79	-	58.63	0.00	3,278.16
	09/24/01	3,336.79	-	58.61	0.00	3,278.18
	10/30/01	3,336.79	-	58.72	0.00	3,278.07
	01/28/02	3,336.79	-	58.74	0.00	3,278.05
	05/21/02	3,336.79	-	58.78	0.00	3,278.01
	09/19/02	3,336.79	-	58.70	0.00	3,278.09
	12/16/02	3,336.79	-	58.64	0.00	3,278.15
	02/24/03	3,336.79	-	58.76	0.00	3,278.03
	05/20/03	3,336.79	-	58.87	0.00	3,277.92
	08/29/03	3,336.79	-	58.88	0.00	3,277.91
	11/26/03	3,336.79	-	58.91	0.00	3,277.88
	02/19/04	3,336.79	-	58.93	0.00	3,277.86
	05/13/04	3,336.79	-	58.83	0.00	3,277.96
	08/23/04	3,336.79	-	58.94	0.00	3,277.85
	12/27/04	3,336.79	-	58.44	0.00	3,278.35

Table 1. Groundwater Elevation Data
TNM 97- 23

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 3	02/25/00	3,339.32	-	61.89	0.00	3,277.43
	06/06/00	3,339.32	-	61.91	0.00	3,277.41
	09/15/00	3,339.32	-	61.98	0.00	3,277.34
	11/30/00	3,339.32	-	62.00	0.00	3,277.32
	03/16/01	3,339.32	-	61.95	0.00	3,277.37
	06/04/01	3,339.32	-	61.95	0.00	3,277.37
	09/24/01	3,339.32	-	61.99	0.00	3,277.33
	10/30/01	3,339.32	-	62.22	0.00	3,277.10
	01/28/02	3,339.32	-	62.05	0.00	3,277.27
	05/21/02	3,339.32	-	62.05	0.00	3,277.27
	09/19/02	3,339.32	-	62.17	0.00	3,277.15
	12/16/02	3,339.32	-	62.04	0.00	3,277.28
	02/24/03	3,339.32	-	62.18	0.00	3,277.14
	05/20/03	3,339.32	-	62.14	0.00	3,277.18
	08/28/03	3,339.32	-	62.24	0.00	3,277.08
	11/26/03	3,339.32	-	62.26	0.00	3,277.06
	02/19/04	3,339.32	-	62.28	0.00	3,277.04
	05/13/04	3,339.32	-	62.30	0.00	3,277.02
	08/23/04	3,339.32	-	62.33	0.00	3,276.99
	12/27/04	3,339.32	-	62.17	0.00	3,277.15
MW - 4	02/25/00	3,335.50	-	56.81	0.00	3,278.69
	06/06/00	3,335.50	-	56.82	0.00	3,278.68
	09/15/00	3,335.50	-	56.85	0.00	3,278.65
	11/30/00	3,335.50	-	56.85	0.00	3,278.65
	03/16/01	3,335.50	-	56.74	0.00	3,278.76
	06/04/01	3,335.50	-	56.76	0.00	3,278.74
	09/24/01	3,335.50	-	56.83	0.00	3,278.67
	10/30/01	3,335.50	-	56.87	0.00	3,278.63
*	01/28/02	3,335.50	-	-	-	-
*	05/21/02	3,335.50	-	-	-	-
*	09/19/02	3,335.50	-	-	-	-
*	12/16/02	3,335.50	-	-	-	-
*	02/24/03	3,335.50	-	-	-	-
	05/20/03	3,335.50	-	56.92	0.00	3,278.58
	08/28/03	3,335.50	-	56.97	0.00	3,278.53
	11/26/03	3,335.50	-	57.06	0.00	3,278.44
	02/19/04	3,335.50	-	57.08	0.00	3,278.42
	05/13/04	3,335.50	-	56.94	0.00	3,278.56
	08/23/04	3,335.50	-	56.90	0.00	3,278.60
	12/27/04	3,336.50	-	56.26	0.00	3,280.24

Table 1. Groundwater Elevation Data
TNM 97- 23

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 5	02/25/00	3,337.21	-	59.35	0.00	3,277.86
	06/06/00	3,337.21	-	59.38	0.00	3,277.83
	09/15/00	3,337.21	-	59.45	0.00	3,277.76
	11/30/00	3,337.21	-	59.44	0.00	3,277.77
	03/16/01	3,337.21	-	59.42	0.00	3,277.79
	06/04/01	3,337.21	-	59.42	0.00	3,277.79
	09/24/01	3,337.21	-	59.46	0.00	3,277.75
	10/30/01	3,337.21	-	59.51	0.00	3,277.70
	01/28/02	3,337.21	-	59.50	0.00	3,277.71
	05/21/02	3,337.21	-	59.65	0.00	3,277.56
	09/19/02	3,337.21	-	59.59	0.00	3,277.62
	12/16/02	3,337.21	-	59.51	0.00	3,277.70
	02/24/03	3,337.21	-	59.61	0.00	3,277.60
	05/20/03	3,337.21	-	59.66	0.00	3,277.55
	08/28/03	3,337.21	-	59.69	0.00	3,277.52
	11/26/03	3,337.21	-	59.72	0.00	3,277.49
	02/19/04	3,337.21	-	59.73	0.00	3,277.48
	05/13/04	3,337.21	-	59.73	0.00	3,277.48
	08/23/04	3,337.21	-	59.75	0.00	3,277.46
	12/27/04	3,338.21	-	59.42	0.00	3,278.79

* Inaccessible due to excavation

Elevations based on the North American Vertical Datum of 1929.

Table 2. 1st & 2nd Quarter 2004 Sampling Reports

TNM 97-23
BTEX: S-8260B Method

MW-1

Analyte	Matrix	Method Taken	1st Quarter				2nd Quarter			
			Sample No.	Date Taken	µg/L Result	µg/L Detection Limit	Sample No.	Date Taken	µg/L Result	µg/L Detection Limit
Benzene	Water	S-8260B	29117	2/19/04	<1.00	1				
Ethylbenzene	Water	S-8260B	29117	2/19/04	<1.00	1				
M,p-Xylene	Water	S-8260B	29117	2/19/04	<2.00	2				
o-Xylene	Water	S-8260B	29117	2/19/04	<1.00	1				
Toluene	Water	S-8260B	29117	2/19/04	<1.00	1				

MW-2

Analyte	Matrix	Method Taken	1st Quarter				2nd Quarter			
			Sample No.	Date Taken	µg/L Result	µg/L Detection Limit	Sample No.	Date Taken	µg/L Result	µg/L Detection Limit
Benzene	Water	S-8260B	29119	2/19/04	<1.00	1				
Ethylbenzene	Water	S-8260B	29119	2/19/04	<1.00	1				
M,p-Xylene	Water	S-8260B	29119	2/19/04	<2.00	2				
o-Xylene	Water	S-8260B	29119	2/19/04	<1.00	1				
Toluene	Water	S-8260B	29119	2/19/04	<1.00	1				

MW-3

Analyte	Matrix	Method Taken	1st Quarter				2nd Quarter			
			Sample No.	Date Taken	µg/L Result	µg/L Detection Limit	Sample No.	Date Taken	µg/L Result	µg/L Detection Limit
Benzene	Water	S-8260B	29120	2/19/04	<1.00	1				
Ethylbenzene	Water	S-8260B	29120	2/19/04	<1.00	1				
M,p-Xylene	Water	S-8260B	29120	2/19/04	<2.00	2				
o-Xylene	Water	S-8260B	29120	2/19/04	<1.00	1				
Toluene	Water	S-8260B	29120	2/19/04	<1.00	1				

MW-4

Analyte	Matrix	Method Taken	1st Quarter				2nd Quarter			
			Sample No.	Date Taken	µg/L Result	µg/L Detection Limit	Sample No.	Date Taken	µg/L Result	µg/L Detection Limit
Benzene	Water	S-8260B	29118	2/19/04	<1.00	1	155799	5/13/04	<1.00	1
Ethylbenzene	Water	S-8260B	29118	2/19/04	<1.00	1	155799	5/13/04	<1.00	1
M,p-Xylene	Water	S-8260B	29118	2/19/04	<2.00	2	155799	5/13/04	<2.00	1
o-Xylene	Water	S-8260B	29118	2/19/04	<1.00	1	155799	5/13/04	<1.00	1
Toluene	Water	S-8260B	29118	2/19/04	<1.00	1	155799	5/13/04	<1.00	1

MW-5

Analyte	Matrix	Method Taken	1st Quarter				2nd Quarter			
			Sample No.	Date Taken	µg/L Result	µg/L Detection Limit	Sample No.	Date Taken	µg/L Result	µg/L Detection Limit
Benzene	Water	S-8260B	29118	2/19/04	<1.00	1				
Ethylbenzene	Water	S-8260B	29118	2/19/04	<1.00	1				
M,p-Xylene	Water	S-8260B	29118	2/19/04	<2.00	2				
o-Xylene	Water	S-8260B	29118	2/19/04	<1.00	1				
Toluene	Water	S-8260B	29118	2/19/04	<1.00	1				

Table 2. 3rd & 4th Quarter 2004 Sampling Reports

TNM 97-23
BTEX: S-8260B Method

MW-1

Analyte	Matrix	Method Taken	3rd Quarter				4th Quarter Work Order Number: 4122809			
			Sample No.	Sample No.	Sample No.		Sample No.	Sample No.	µg/L	
									Result	Detection Limit
Benzene	Water	S-8260B					51613	12/27/04	<1.00	1
Ethylbenzene	Water	S-8260B					51613	12/27/04	<1.00	1
M,p-Xylene	Water	S-8260B					51613	12/27/04	<1.00	1
o-Xylene	Water	S-8260B					51613	12/27/04	<1.00	1
Toluene	Water	S-8260B					51613	12/27/04	<1.00	1

MW-2

Analyte	Matrix	Method Taken	3rd Quarter				4th Quarter Work Order Number: 4122809			
			Sample No.	Date Taken	µg/L		Sample No.	Date Taken	µg/L	
					Result	Detection Limit			Result	Detection Limit
Benzene	Water	S-8260B					51614	12/27/04	<1.00	1
Ethylbenzene	Water	S-8260B					51614	12/27/04	<1.00	1
M,p-Xylene	Water	S-8260B					51614	12/27/04	<2.00	1
o-Xylene	Water	S-8260B					51614	12/27/04	<1.00	1
Toluene	Water	S-8260B					51614	12/27/04	<1.00	1

MW-3

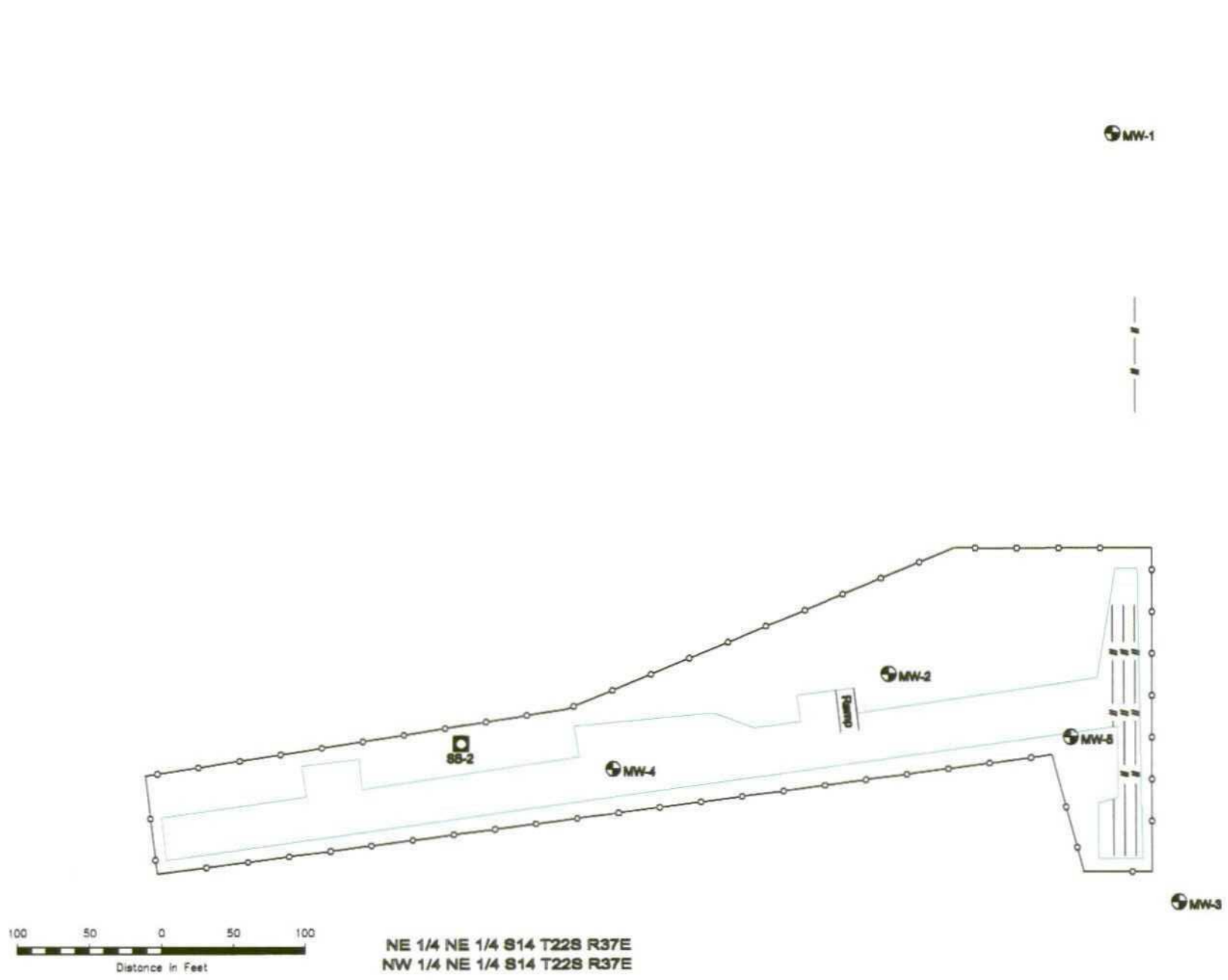
Analyte	Matrix	Method Taken	3rd Quarter				4th Quarter Work Order Number: 4122809			
			Sample No.	Date Taken	µg/L		Sample No.	Date Taken	µg/L	
					Result	Detection Limit			Result	Detection Limit
Benzene	Water	S-8260B					51615	12/27/04	<1.00	1
Ethylbenzene	Water	S-8260B					51615	12/27/04	<1.00	1
M,p-Xylene	Water	S-8260B					51615	12/27/04	<1.00	1
o-Xylene	Water	S-8260B					51615	12/27/04	<1.00	1
Toluene	Water	S-8260B					51615	12/27/04	<1.00	1

MW-4

Analyte	Matrix	Method Taken	3rd Quarter				4th Quarter Work Order Number: 4122809			
			Sample No.	Date Taken	µg/L		Sample No.	Date Taken	µg/L	
					Result	Detection Limit			Result	Detection Limit
Benzene	Water	S-8260B	159058	8/23/04	<1.00	1	51616	12/27/04	<1.00	1
Ethylbenzene	Water	S-8260B	159058	8/23/04	<1.00	1	51616	12/27/04	<1.00	1
M,p-Xylene	Water	S-8260B	159058	8/23/04	<2.00	1	51616	12/27/04	<1.00	1
o-Xylene	Water	S-8260B	159058	8/23/04	<1.00	1	51616	12/27/04	<1.00	1
Toluene	Water	S-8260B	159058	8/23/04	<1.00	1	51616	12/27/04	1.22	1

MW-5

Analyte	Matrix	Method Taken	3rd Quarter				4th Quarter Work Order Number: 4122809			
			Sample No.	Date Taken	µg/L		Sample No.	Date Taken	µg/L	
					Result	Detection Limit			Result	Detection Limit
Benzene	Water	S-8260B					51617	12/27/04	<1.00	1
Ethylbenzene	Water	S-8260B					51617	12/27/04	<1.00	1
M,p-Xylene	Water	S-8260B					51617	12/27/04	<1.00	1
o-Xylene	Water	S-8260B					51617	12/27/04	<1.00	1
Toluene	Water	S-8260B					51617	12/27/04	<1.00	1



LEGEND:

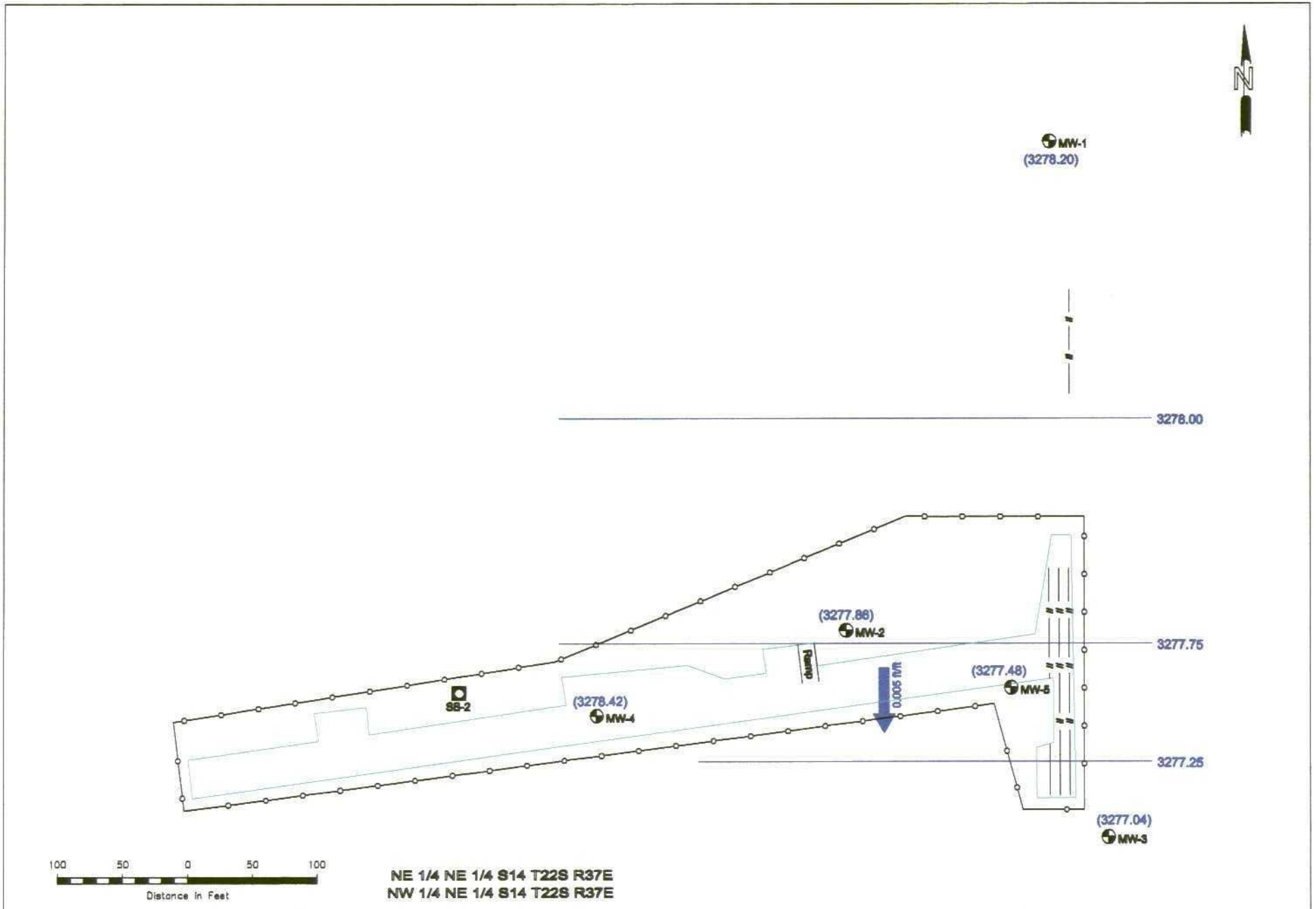
- Monitor Well Location
- Soil Boring
- Groundwater Gradient Contour Line
- Extent of Excavation
- ND Not Detect
- NS Not Sampled
- —//— Exposed Pipeline
- Groundwater Gradient Direction and Magnitude
- 3278.50 Groundwater Elevation
- NG Well was not gauged

Figure 1
Site map
Plains Marketing, L.P.
TNM 97-23
Eunice, NM

BBC INTERNATIONAL

BBC International, Inc.
World-Wide Environmental Specialists
Hobbs, New Mexico

32° 23' 45.3N 103° 07' 51.6"W		
Scale: 1" = 100'	Prep By: LA	Checked By: CB
March 19, 2006		



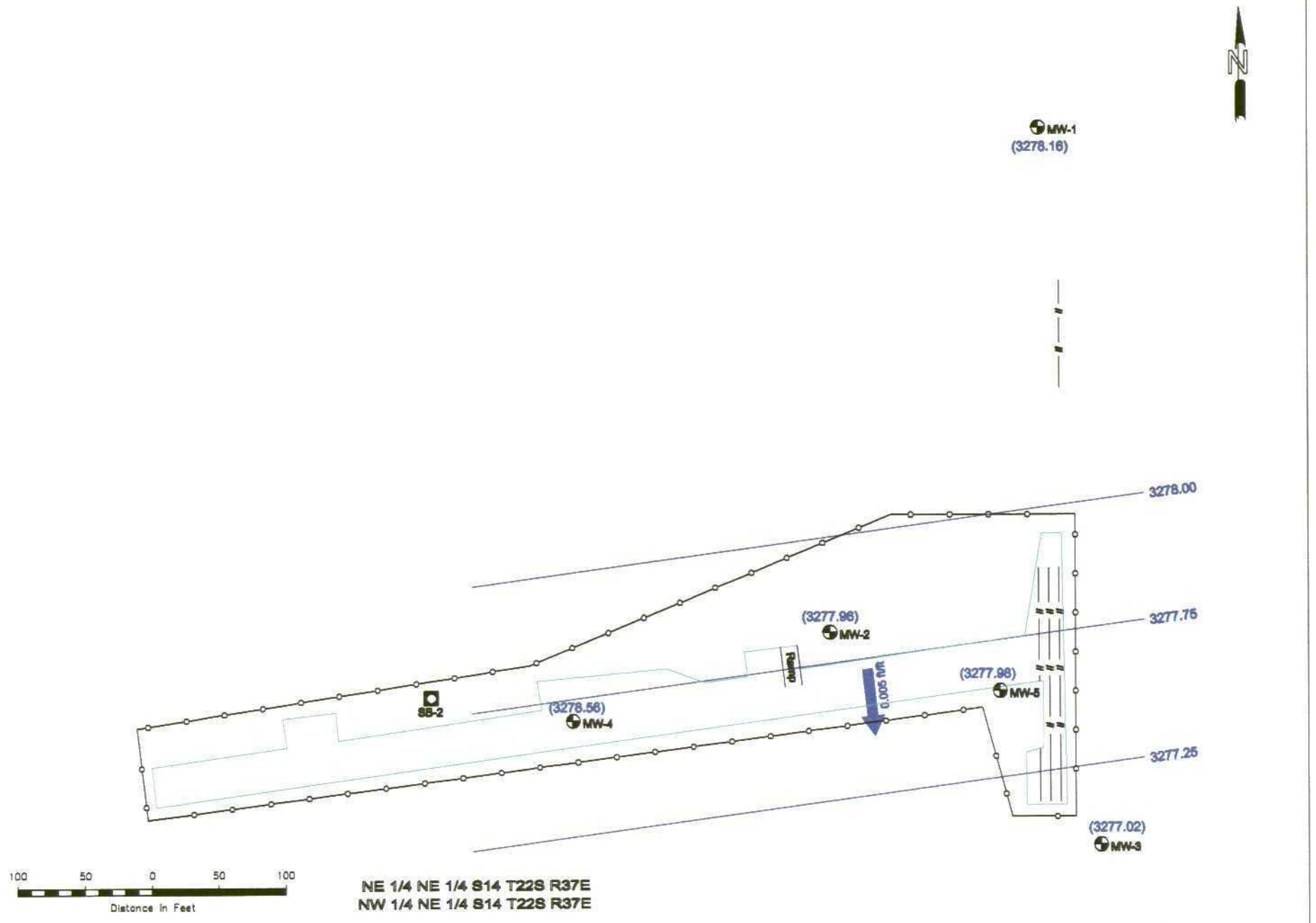
LEGEND:

- Monitor Well Location
- Soil Boring
- Groundwater Gradient Contour Line
- Extent of Excavation
- ND Not Detect
- NS Not Sampled
- –//– Exposed Pipeline
- Groundwater Gradient Direction and Magnitude
- 3278.50 Groundwater Elevation
- NG Well was not gauged

Figure 2
Inferred Groundwater Gradient Map (2/19/04)
1st Quarter
Plains Marketing, L.P.
TNM 97-23
Eunice, NM

BBC International, Inc.
World-Wide Environmental Specialists
Hobbs, New Mexico

32° 23' 45.3N 103° 07' 51.8"W		
Scale: 1" = 100'	Prep By: LA	Checked By: CB
March 19, 2005		



LEGEND:

- Monitor Well Location
- Soil Boring
- Groundwater Gradient Contour Line
- Extent of Excavation

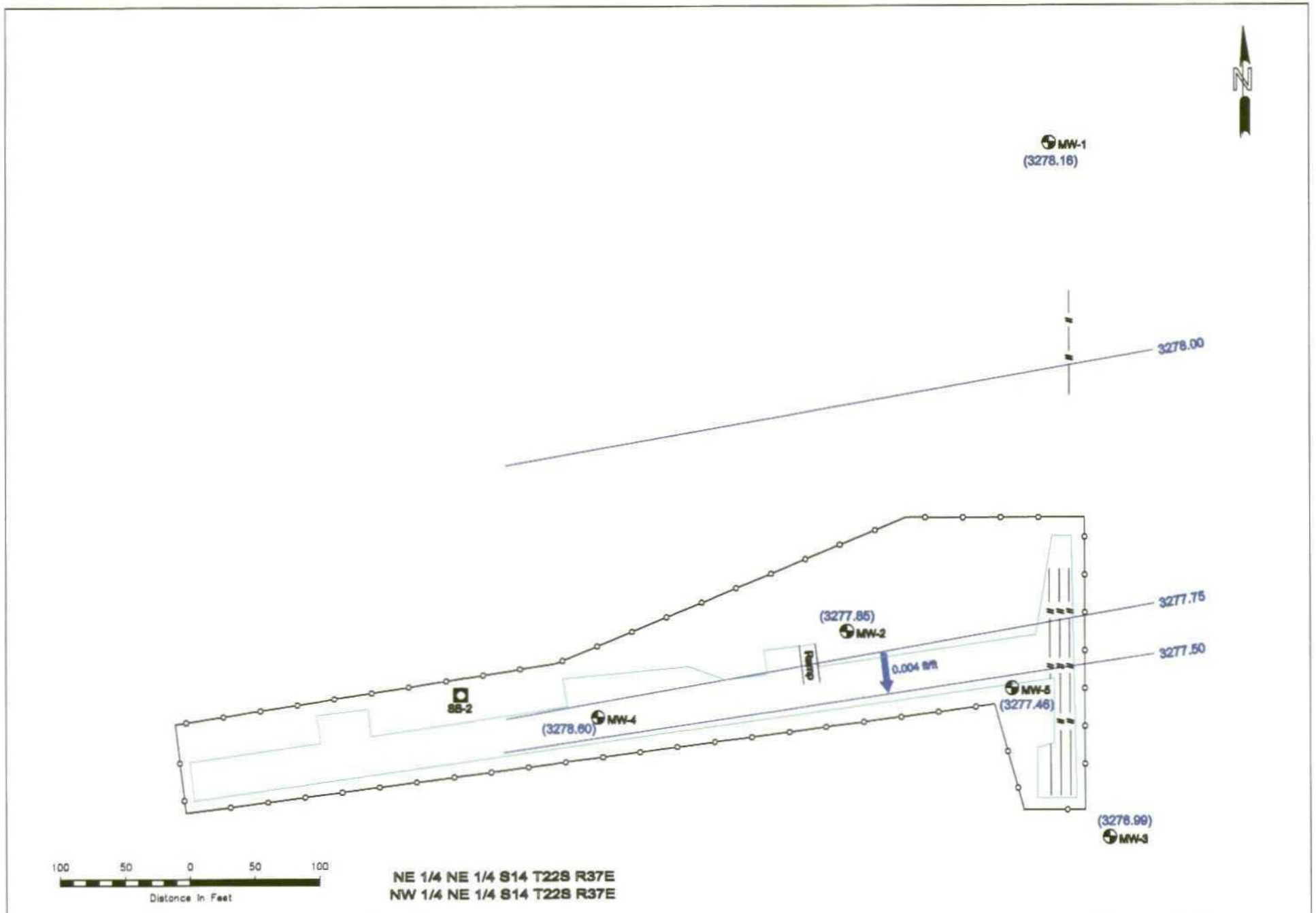
ND	Not Detect
NS	Not Sampled
–//–	Exposed Pipeline
	Groundwater Gradient Direction and Magnitude
3278.50	Groundwater Elevation
NG	Well was not gauged

Figure 3
Inferred Groundwater Gradient Map (5/13/04)
2nd Quarter
Plains Marketing, L.P.
TNM 97-23
Eunice, NM

BBC INTERNATIONAL

BBC International, Inc.
World-Wide Environmental Specialists
Hobbs, New Mexico

32° 23' 45.3N 103° 07' 51.6"W		
Scale: 1" = 100'	Prep By: LA	Checked By: CB
March 19, 2005		



LEGEND:

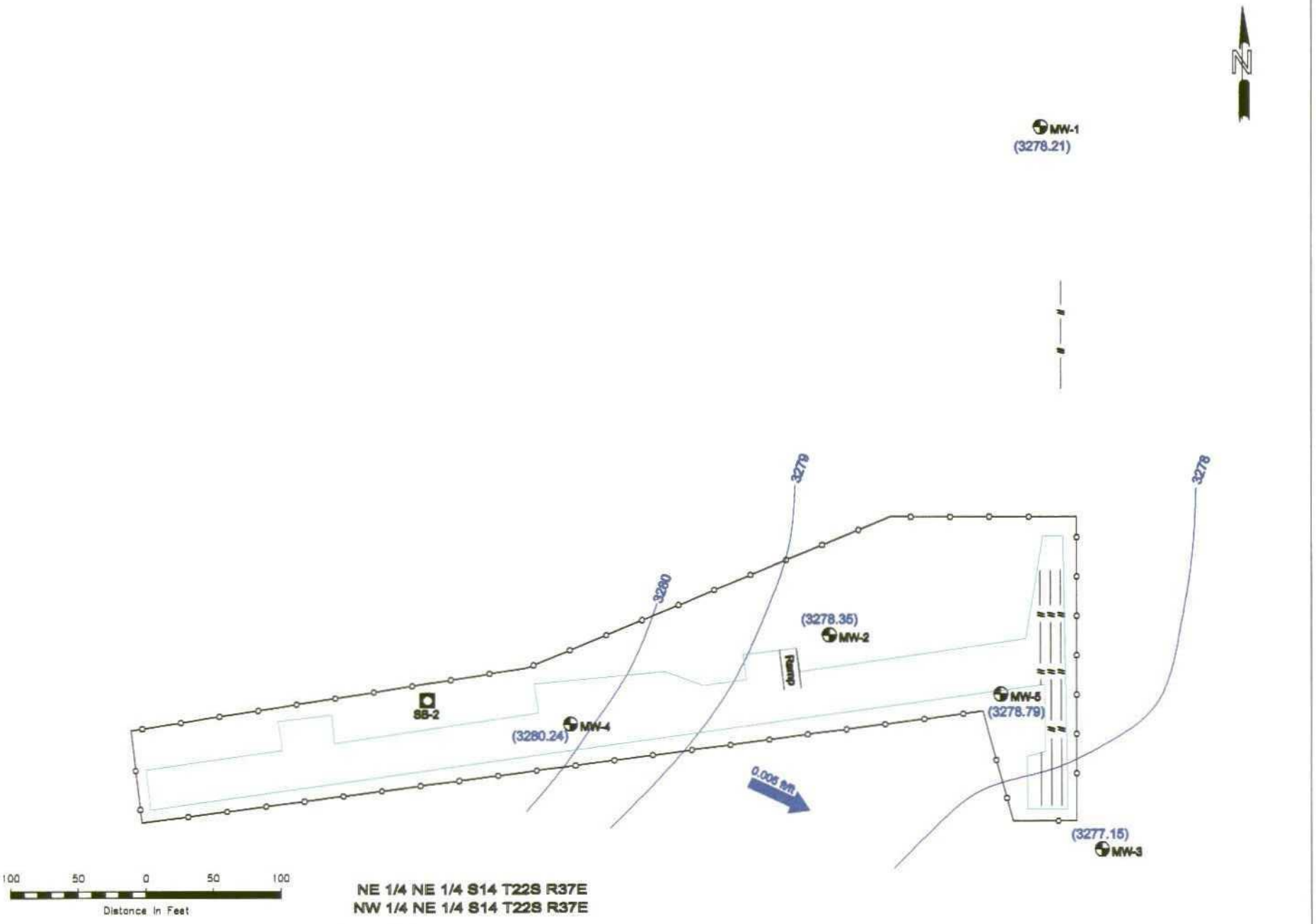
- Monitor Well Location
- Soil Boring
- Groundwater Gradient Contour Line
- Extent of Excavation

ND Not Detect
NS Not Sampled
—//— Exposed Pipeline
Groundwater Gradient Direction and Magnitude
3278.50 Groundwater Elevation
NG Well was not gauged

Figure 4
Inferred Groundwater Gradient Map (8/23/04)
3rd Quarter
Plains Marketing, L.P.
TNM 97-23
Eunice, NM

BBC International, Inc.
World-Wide Environmental Specialists
Hobbs, New Mexico

32° 25' 45.3N 103° 07' 51.6"W		
Scale: 1" = 100'	Prep By: LA	Checked By: CB
March 19, 2005		



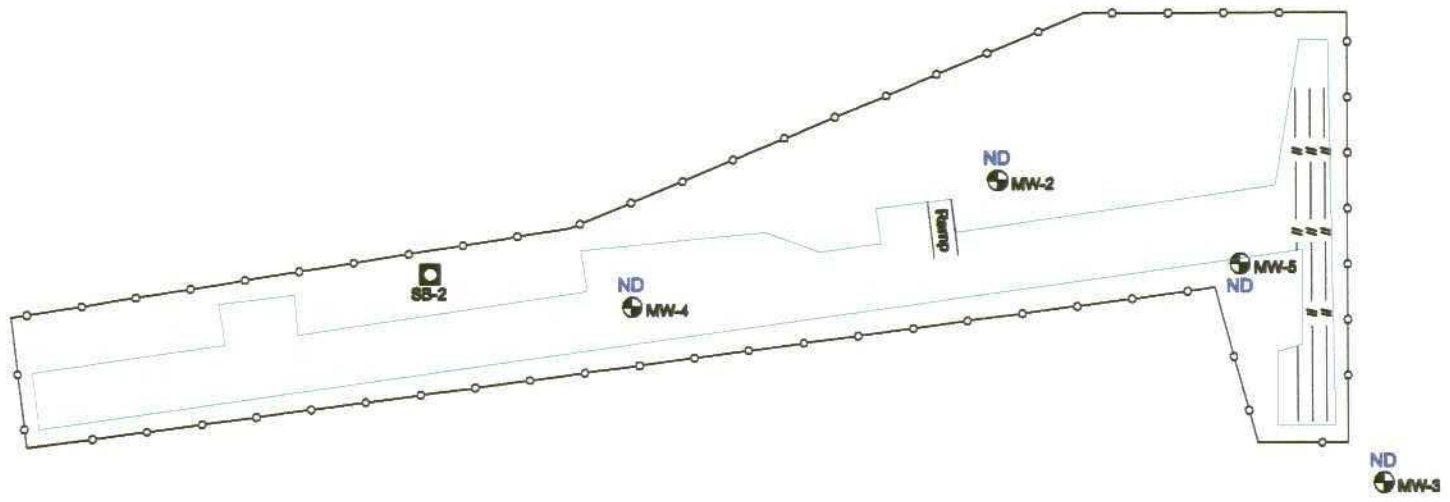
LEGEND:

- Monitor Well Location
- Soil Boring
- Groundwater Gradient Contour Line
- Extent of Excavation
- ND Not Detect
- NS Not Sampled
- Exposed Pipeline
- Groundwater Gradient Direction and Magnitude
- 3278.50 Groundwater Elevation
- NG Well was not gauged

Figure 5
Inferred Groundwater Gradient Map (12/27/04)
4rd Quarter
Plains Marketing, L.P.
TNM 97-23
Eunice, NM

BBC International, Inc.
World-Wide Environmental Specialists
Hobbs, New Mexico

32° 23' 45.3N 103° 07' 51.8"W		
Scale: 1" = 100'	Prep By: LA	Checked By: CB
March 19, 2005		



NE 1/4 NE 1/4 S14 T22S R37E
NW 1/4 NE 1/4 S14 T22S R37E

LEGEND:

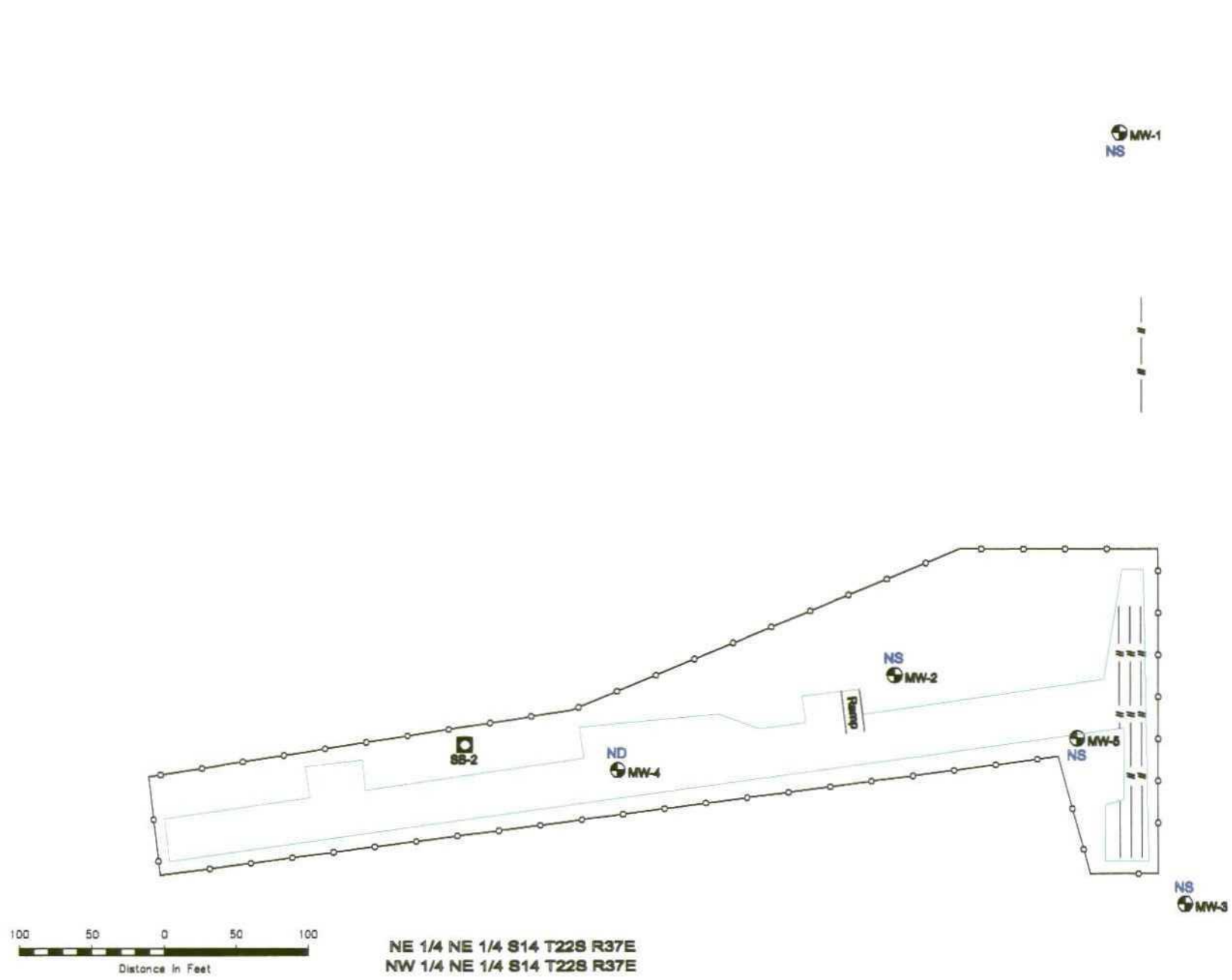
- Monitor Well Location
- Soil Boring
- Groundwater Gradient Contour Line
- Extent of Excavation

- ND Not Detect
- NS Not Sampled
- Exposed Pipeline
- Groundwater Gradient Direction and Magnitude
- 3278.50 Groundwater Elevation
- NG Well was not gauged

Figure 6
BTEX Concentration
(2/19/04)
1st Quarter
Plains Marketing, L.P.
TNM 97-23
Eunice, NM

BBC International, Inc.
World-Wide Environmental Specialists
Hobbs, New Mexico

32° 23' 45.3N 103° 07' 51.8"W		
Scale: 1" = 100'	Prep By: LA	Checked By: CB
March 19, 2005		



LEGEND:

- Monitor Well Location
- Soil Boring
- Groundwater Gradient Contour Line
- Extent of Excavation

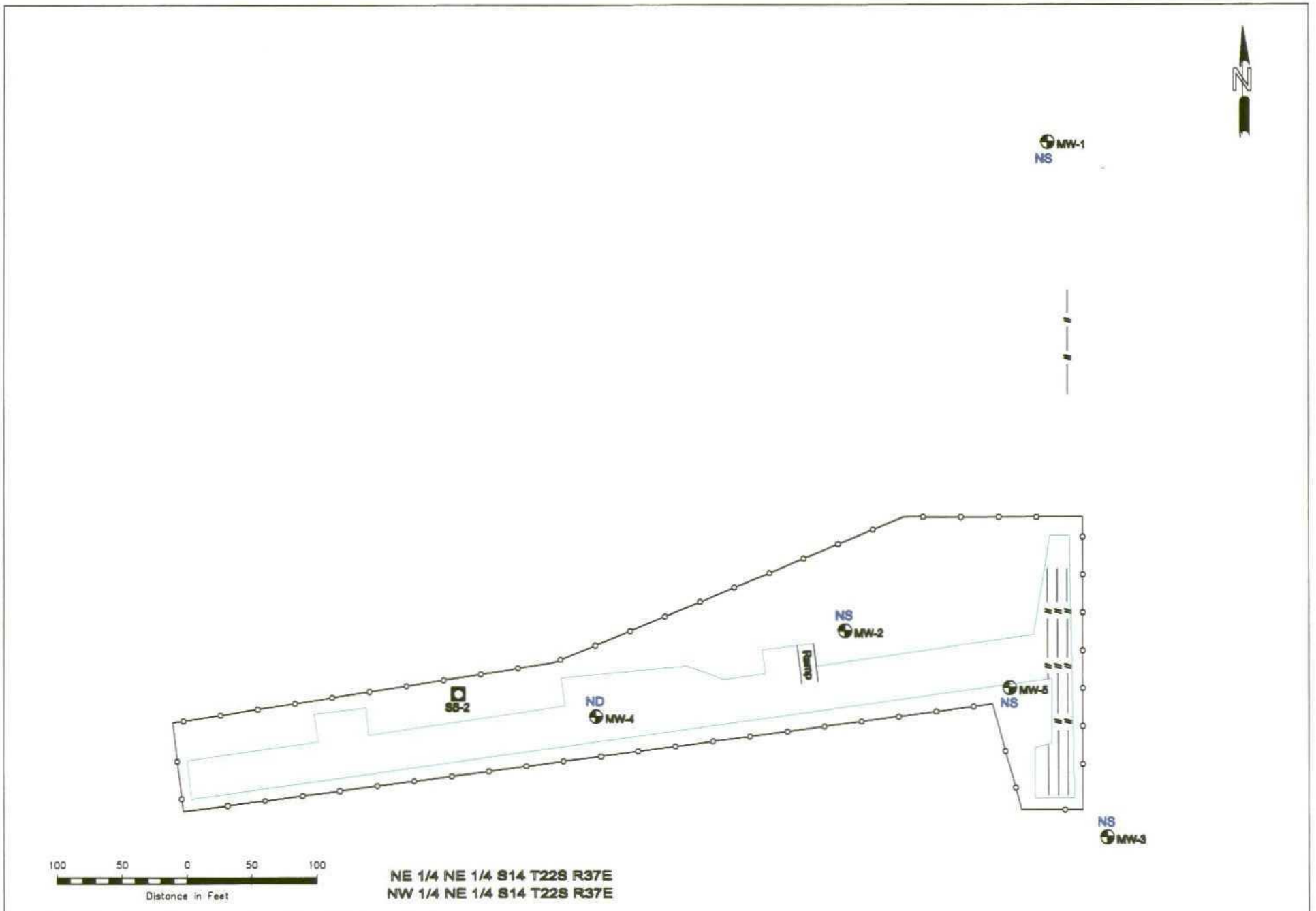
- ND Not Detect
- NS Not Sampled
- Exposed Pipeline
- Groundwater Gradient Direction and Magnitude
- 3278.50 Groundwater Elevation
- NG Well was not gauged

Figure 7
BTEX Concentration
(5/13/04)
2nd Quarter
Plains Marketing, L.P.
TNM 97-23
Eunice, NM

BBC INTERNATIONAL

BBC International, Inc.
World-Wide Environmental Specialists
Hobbs, New Mexico

32° 23' 46.3N 103° 07' 51.8"W		
Scale: 1" = 100'	Prep By: LA	Checked By: CB
March 19, 2005		



LEGEND:

- Monitor Well Location
- Soil Boring
- Groundwater Gradient Contour Line
- Extent of Excavation

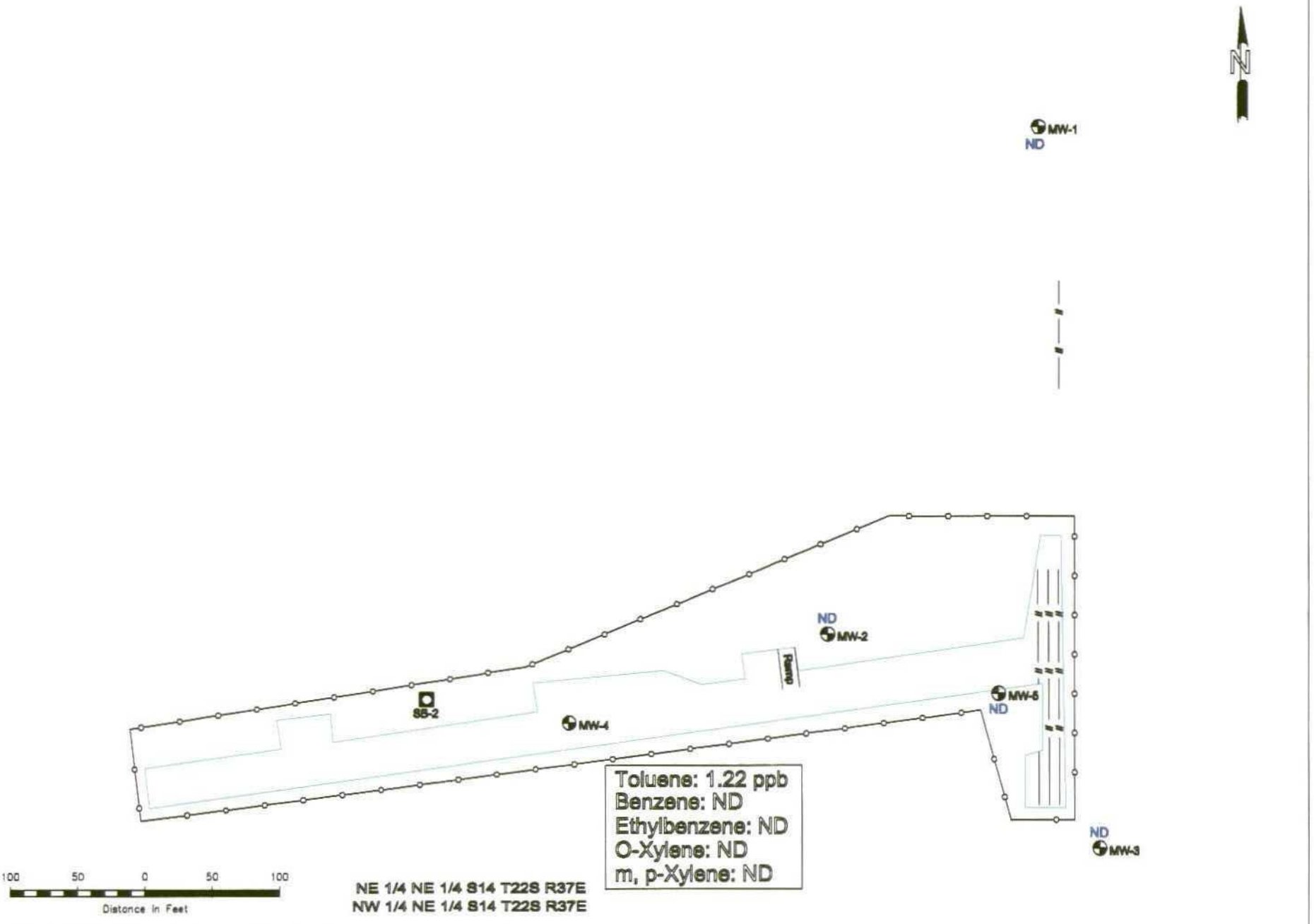
ND Not Detect
NS Not Sampled
—//— Exposed Pipeline
Groundwater Gradient Direction and Magnitude
3278.50 Groundwater Elevation
NG Well was not gauged

Figure 8
BTEX Concentration
(8/23/04)
3rd Quarter
Plains Marketing, L.P.
TNM 97-23
Eunice, NM

BBC INTERNATIONAL

BBC International, Inc.
World-Wide Environmental Specialists
Hobbs, New Mexico

32° 23' 45.3N 103° 07' 51.8"W		
Scale: 1" = 100'	Prep By: LA	Checked By: CB
March 19, 2005		



LEGEND:

- Monitor Well Location
- Soil Boring
- Groundwater Gradient Contour Line
- Extent of Excavation

- ND Not Detect
- NS Not Sampled
- Exposed Pipeline
- Groundwater Gradient Direction and Magnitude
- 3278.50 Groundwater Elevation
- NG Well was not gauged

Figure 9
BTEX Concentration
(12/27/04)
4th Quarter
Plains Marketing, L.P.
TNM 97-23
Eunice, NM

BBC International, Inc.
World-Wide Environmental Specialists
Hobbs, New Mexico

32° 23' 45.3N 103° 07' 51.8"W		
Scale: 1" = 100'	Prep By: LA	Checked By: CS
March 19, 2005		

APPENDIX I

Laboratory Results
1st Quarter 2004

TNM 97-23

April 2005

Plains Marketing, L.P.
Houston, Texas

Prepared by:
BBC International, Inc.

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 153115 **Report Date:** 02/27/04
Project ID: LI-2010 97-23
Sample Name: MW-1
Sample Matrix: water
Date Received: 02/20/2004 **Time:** 14:15
Date Sampled: 02/19/2004 **Time:** 10:30

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]
Volatile organics-8260b/BTEX	---		---		02/25/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/25/04	8260b	---	4.2	98.6	100.2	100.7
Ethylbenzene	<1	µg/L	1	<1	02/25/04	8260b	---	2.3	103.6	108.1	106.7
m,p-Xylenes	<2	µg/L	2	<2	02/25/04	8260b	---	1.6	105.5	109.3	108.6
o-Xylene	<1	µg/L	1	<1	02/25/04	8260b	---	2	105	107.6	108.4
Toluene	<1	µg/L	1	<1	02/25/04	8260b	---	2.5	104.9	105.1	106.3

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.

Respectfully Submitted,

Richard Elton

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). 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.

ANALYSYS INC.

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group	**Project ID:** LI-2010 97-23	**Report#/Lab ID#:** 153115
Attn: Robert Eidson	**Sample Name:** MW-1	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	111	74-124	---
Toluene-d8	8260b	104	89-115	---

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

AnalySys Inc.

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 153116 **Report Date:** 02/27/04
Project ID: LI-2010 97-23
Sample Name: MW-2
Sample Matrix: water
Date Received: 02/20/2004 **Time:** 14:15
Date Sampled: 02/19/2004 **Time:** 11:00

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]
Volatile organics-8260b/BTEX	---		---		02/25/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/25/04	8260b	---	4.2	98.6	100.2	100.7
Ethylbenzene	<1	µg/L	1	<1	02/25/04	8260b	---	2.3	103.6	108.1	106.7
m,p-Xylenes	<2	µg/L	2	<2	02/25/04	8260b	---	1.6	105.5	109.3	108.6
o-Xylene	<1	µg/L	1	<1	02/25/04	8260b	---	2	105	107.6	108.4
Toluene	<1	µg/L	1	<1	02/25/04	8260b	---	2.5	104.9	105.1	106.3

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3512 Montopolis Drive, Austin, TX 78744 &
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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group **Attn:** Robert Eidson	**Project ID:** LI-2010 97-23 **Sample Name:** MW-2	**Report#/Lab ID#:** 153116 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	110	74-124	---
Toluene-d8	8260b	107	89-115	---

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

ANALYSYS INC.

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 153117 **Report Date:** 02/27/04
Project ID: LI-2010 97-23
Sample Name: MW-3
Sample Matrix: water
Date Received: 02/20/2004 **Time:** 14:15
Date Sampled: 02/19/2004 **Time:** 11:30

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]
Volatile organics-8260b/BTEX	---		---		02/25/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/25/04	8260b	---	4.2	98.6	100.2	100.7
Ethylbenzene	<1	µg/L	1	<1	02/25/04	8260b	---	2.3	103.6	108.1	106.7
m,p-Xylenes	<2	µg/L	2	<2	02/25/04	8260b	---	1.6	105.5	109.3	108.6
o-Xylene	<1	µg/L	1	<1	02/25/04	8260b	---	2	105	107.6	108.4
Toluene	<1	µg/L	1	<1	02/25/04	8260b	---	2.5	104.9	105.1	106.3

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group **Attn:** Robert Eidson	**Project ID:** LI-2010 97-23 **Sample Name:** MW-3	**Report#/Lab ID#:** 153117 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	103	74-124	---
Toluene-d8	8260b	108	89-115	---

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

ANALYSYS INC.

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
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Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 153118 **Report Date:** 02/27/04
Project ID: LI-2010 97-23
Sample Name: MW-4
Sample Matrix: water
Date Received: 02/20/2004 **Time:** 14:15
Date Sampled: 02/19/2004 **Time:** 12:00

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]
Volatile organics-8260b/BTEX	---		---		02/25/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/25/04	8260b	---	4.2	98.6	100.2	100.7
Ethylbenzene	<1	µg/L	1	<1	02/25/04	8260b	---	2.3	103.6	108.1	106.7
m,p-Xylenes	<2	µg/L	2	<2	02/25/04	8260b	---	1.6	105.5	109.3	108.6
o-Xylene	<1	µg/L	1	<1	02/25/04	8260b	---	2	105	107.6	108.4
Toluene	<1	µg/L	1	<1	02/25/04	8260b	---	2.5	104.9	105.1	106.3

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group **Attn:** Robert Eidson	**Project ID:** LI-2010 97-23 **Sample Name:** MW-4	**Report#/Lab ID#:** 153118 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	103	74-124	---
Toluene-d8	8260b	109	89-115	---

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

AnalySys Inc.

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 153119 **Report Date:** 02/27/04
Project ID: LI-2010 97-23
Sample Name: MW-5
Sample Matrix: water
Date Received: 02/20/2004 **Time:** 14:15
Date Sampled: 02/19/2004 **Time:** 12:30

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]
Volatile organics-8260b/BTEX	---		---		02/25/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/25/04	8260b	J	0.9	98.8	103.7	94.4
Ethylbenzene	<1	µg/L	1	<1	02/25/04	8260b	---	3.2	107.9	110.1	99.7
m,p-Xylenes	<2	µg/L	2	<2	02/25/04	8260b	---	3.3	109.8	109.6	101.7
o-Xylene	<1	µg/L	1	<1	02/25/04	8260b	---	1.5	108.4	110.5	101.5
Toluene	<1	µg/L	1	<1	02/25/04	8260b	---	0.4	104.9	107.7	98

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.

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Exceptions Report:

Report #/Lab ID#: 153119 **Matrix:** water
Client: Environmental Tech Group **Attn:** Robert Eidson
Project ID: LI-2010 97-23
Sample Name: MW-5

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	J	See J-flag discussion above.

Notes:

ANALYSYS INC.

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group **Attn:** Robert Eidson	**Project ID:** LI-2010 97-23 **Sample Name:** MW-5	**Report#/Lab ID#:** 153119 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	93.3	74-124	---
Toluene-d8	8260b	109	89-115	---

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

8777

CHAIN-C USTODY

www.analy inc.com

AnalySys

Send Reports To:

Company Name Environmental Technology Group Inc.
Address 2540 W. Morland
City Hobbs State N.M. Zip 88240
ATTN Robert Eidson
Phone (505) 397-4882 Fax (505) 397-4701
Project Name/PO#: LI 2010 97-23 Sampler Cody Fisher

Bill To (if different):

Company Name Link
Address
City State Zip
ATTN:
Phone Fax

Samples/projects intended for TCEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of Custody under "special instructions".

Client Sample No. Description Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab I.D. # (Lab Only)	Ice	HNO3	HCL	ZnAc/NaOH	H2SO4 Glass	None	Other (Specify)	Water	Wastewater	Waste	Soil	Other (Specify)	Analyze For: BTEX 8021b
mw-1	2-19-04	10:30	2			153115	X		X					X					X
mw-2	2-19-04	11:00	2			153116	X		X					X					X
mw-3	2-14-04	11:30	2			153117	X		X					X					X
mw-4	2-19-04	12:00	2			153118	X		X					X					X
mw-5	2-19-04	12:30	2			153119	X		X					X					X

No. of Containers and Preservative (TRRP-13 Mandatory) · Matrix

Special Instructions (such as special QC requirements, lists, methods, etc.)

T: 4.2 C

Unless specifically requested otherwise on this Chain of custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI normal reporting limits (MDL PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain of custody or attached to the chain of custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Sample Relinquished By: Name	Affiliation	Date	Time	Sample Received By: Name	Affiliation	Date	Time
Cody Fisher	ETGI	2-19-04		Melanie Humphrey	AX	2/20/04	14:15

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

APPENDIX II

Laboratory Results
2nd Quarter 2004

TNM 97-23

April 2005

Plains Marketing, L.P.
Houston, Texas

Prepared by:
BBC International, Inc.

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 155799 **Report Date:** 05/25/04
Project ID: PL-2010 TNM 97-23
Sample Name: MW-4
Sample Matrix: water
Date Received: 05/14/2004 **Time:** 14:00
Date Sampled: 05/13/2004 **Time:** 12:00

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]
Volatile organics-8260b/BTEX	---		---		05/24/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	05/24/04	8260b	---	3.3	100.1	95	101
Ethylbenzene	<1	µg/L	1	<1	05/24/04	8260b	---	6.7	113.2	109.8	115.9
m,p-Xylenes	<2	µg/L	2	<2	05/24/04	8260b	---	6.6	113.2	108.7	115.7
o-Xylene	<1	µg/L	1	<1	05/24/04	8260b	---	6.6	111.1	116.7	125.2
Toluene	<1	µg/L	1	<1	05/24/04	8260b	---	6.3	107.6	102.2	110.4

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.

Respectfully Submitted,

Richard Elton

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.

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group	**Project ID:** PL-2010 TNM 97-23	**Report#/Lab ID#:** 155799
Attn: Robert Eidson	**Sample Name:** MW-4	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limitse	Data Qualifiers
1,2-Dichloroethane-d4	8260b	102	74-124	---
Toluene-d8	8260b	112	89-115	---

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

CHAIN-OF-CUSTODY 040

WWW.ANALYSYSINC.COM

AnalySys Inc.
3512 Montopolis Drive. Austin. TX 78744
Phone: (512) 385-5886 Fax: (512) 385-7411
2209 N.P.I.D.. Ste K. Corpus Christi. TX 78408
Phone: (361) 289-6384 Fax: (361) 289-0875

Send Reports to:
Company Name Environmental Technology Group
Address 2540 W. Marland
City Hobbs State N.M. Zip 88240
ATTN: ~~Connie Reynolds~~ Robert Fisher
Phone (505) 397-4882 Fax (505) 397-4701

Bill to (if different):
Company Name Plains
Address
City State Zip
ATTN:
Phone Fax

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: PH 2010 TWN 27-23 Sampler: Rob Fisher

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8021B	Comments
MW-4	5-13-01	12:00	2		/		155799	/	

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

T: 4.8°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
[signature]	ETGI	5-13-01		L. Flynn	ASI	5/14/04	1400

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

APPENDIX III

Laboratory Results
3rd Quarter 2004

TNM 97-23

April 2005

Plains Marketing, L.P.
Houston, Texas

Prepared by:
BBC International, Inc.

AnalySys Inc.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Nova
Attn: Todd Choban
Address: 2053 Commerce
Midland TX 79703

Phone: 432-520-7720 **FAX:**

Report#/Lab ID#: 159058 **Report Date:** 09/03/04
Project ID: 97-23 PL2010
Sample Name: MW 4
Sample Matrix: water
Date Received: 08/27/2004 **Time:** 14:00
Date Sampled: 08/23/2004 **Time:** 08:00

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]
Volatile organics-8260b/BTEX	---		---		09/01/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	09/01/04	8260b	---	0.1	100.1	105.3	97.7
Ethylbenzene	<1	µg/L	1	<1	09/01/04	8260b	---	1.2	109.8	113	110.9
m,p-Xylenes	<2	µg/L	2	<2	09/01/04	8260b	---	0	110.6	112.5	112.5
o-Xylene	<1	µg/L	1	<1	09/01/04	8260b	---	0.6	104.2	106.8	106.2
Toluene	<1	µg/L	1	<1	09/01/04	8260b	---	0.4	109.5	117.4	109.3

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.

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.

ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Nova	**Project ID:** 97-23 PL2010	**Report#/Lab ID#:** 159058
Attn: Todd Choban	**Sample Name:** MW 4	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	84.1	74-124	---
Toluene-d8	8260b	110	89-115	---

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

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ANALYSYS INC.

3512 Montopolis Drive, Austin, TX 78744 Ph: (512) 385-5886 Fax: (512) 385-7411

2209 N. Padre Island Dr., Ste K, Corpus Christi, TX 78408 Ph: (361) 289-6384 Fax: (361) 289-0875

Send Reports To:

Company Name Nova

Address 2053 Commerce

City Midland State TX Zip 79703

ATTN: Tom Chaban

Phone 432 5207720 Fax

Project Name/PO#: 97-23 PL 2016 Sampler Cadyfisher

Bill To (if different):

Company Name Plains

Address _____

City _____ State _____ Zip _____

ATTN: _____

Phone _____ Fax _____

Samples/projects intended for TCEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of Custody under "special instructions".

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Lab I.D. # (Lab Only)	No. of Containers and Preservative (TRRP-13 Mandatory): Ice	HNO3	HCL	ZnAc/NaOH	H2SO4 Glass	None	Other (Specify)	Matrix: Water	Wastewater	Waste	Soil	Other (Specify)	Analyze For: BTEX 8021B										RUSH TAT (Pre-Scheduled)	Standard TAT
mw 4	8-23	8:00	2			159058	/		/					/					/											

Special Instructions (such as special QC requirements, lists, methods, etc...)

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temperature upon receipt (Consistent with NELAC sec. 5.11) (>0-6°C) T: 2.8 °C

Sample Relinquished By				Sample Received By					
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time	YES	✓
[signature]	Nova	8-23-16		[signature]	ASI	8/24/16	1400	NO	

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

APPENDIX IV

Laboratory Results
4th Quarter 2004

TNM 97-23

April 2005

Plains Marketing, L.P.
Houston, Texas

Prepared by:
BBC International, Inc.

Summary Report

Cliff Brunson
BBC International
1324 W. Marland
Hobbs, NM 88240

Report Date: January 7, 2005

Work Order: 4122809

Project Location: Eunice NM
Project Name: Plains TNM 97-23
Project Number: TNM 97-23

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
51613	MW #1	water	2004-12-27	12:07	2004-12-28
51614	MW #2	water	2004-12-27	12:40	2004-12-28
51615	MW #3	water	2004-12-27	13:20	2004-12-28
51616	MW #4	water	2004-12-27	13:50	2004-12-28
51617	MW #5	water	2004-12-27	14:30	2004-12-28

Sample: 51613 - MW #1

Param	Flag	Result	Units	RL
Benzene		<1.00	µg/L	1.00
Toluene		<1.00	µg/L	1.00
Ethylbenzene		<1.00	µg/L	1.00
m,p-Xylene		<1.00	µg/L	1.00
o-Xylene		<1.00	µg/L	1.00

Sample: 51614 - MW #2

Param	Flag	Result	Units	RL
Benzene		<1.00	µg/L	1.00
Toluene		<1.00	µg/L	1.00
Ethylbenzene		<1.00	µg/L	1.00
m,p-Xylene		<1.00	µg/L	1.00
o-Xylene		<1.00	µg/L	1.00

Sample: 51615 - MW #3

Param	Flag	Result	Units	RL
Benzene		<1.00	µg/L	1.00
Toluene		<1.00	µg/L	1.00
Ethylbenzene		<1.00	µg/L	1.00

continued ...

sample 51615 continued ...

Param	Flag	Result	Units	RL
m,p-Xylene		<1.00	µg/L	1.00
o-Xylene		<1.00	µg/L	1.00

Sample: 51616 - MW #4

Param	Flag	Result	Units	RL
Benzene		<1.00	µg/L	1.00
Toluene		**1.22**	µg/L	1.00
Ethylbenzene		<1.00	µg/L	1.00
m,p-Xylene		<1.00	µg/L	1.00
o-Xylene		<1.00	µg/L	1.00

Sample: 51617 - MW #5

Param	Flag	Result	Units	RL
Benzene		<1.00	µg/L	1.00
Toluene		<1.00	µg/L	1.00
Ethylbenzene		<1.00	µg/L	1.00
m,p-Xylene		<1.00	µg/L	1.00
o-Xylene		<1.00	µg/L	1.00

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Cliff Brunson
BBC International
1324 W. Marland
Hobbs, NM 88240

Report Date: January 7, 2005

Work Order: 4122809

Project Location: Eunice NM
Project Name: Plains TNM 97-23
Project Number: TNM 97-23

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
51613	MW #1	water	2004-12-27	12:07	2004-12-28
51614	MW #2	water	2004-12-27	12:40	2004-12-28
51615	MW #3	water	2004-12-27	13:20	2004-12-28
51616	MW #4	water	2004-12-27	13:50	2004-12-28
51617	MW #5	water	2004-12-27	14:30	2004-12-28

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.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 51613 - MW #1

Analysis:	Volatiles	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	15072	Date Analyzed:	2005-01-02	Analyzed By:	JG
Prep Batch:	13295	Sample Preparation:	2005-01-02	Prepared By:	JG

Comment: BTEX only

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<1.00	µg/L	1	1.00
Toluene		<1.00	µg/L	1	1.00
Ethylbenzene		<1.00	µg/L	1	1.00
m,p-Xylene		<1.00	µg/L	1	1.00
o-Xylene		<1.00	µg/L	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.1	µg/L	1	50.0	94	70 - 130
Toluene-d8		44.6	µg/L	1	50.0	89	70 - 130
4-Bromofluorobenzene (4-BFB)		43.0	µg/L	1	50.0	86	70 - 130

Sample: 51614 - MW #2

Analysis:	Volatiles	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	15072	Date Analyzed:	2005-01-02	Analyzed By:	JG
Prep Batch:	13295	Sample Preparation:	2005-01-02	Prepared By:	JG

Comment: BTEX only

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<1.00	µg/L	1	1.00
Toluene		<1.00	µg/L	1	1.00
Ethylbenzene		<1.00	µg/L	1	1.00
m,p-Xylene		<1.00	µg/L	1	1.00
o-Xylene		<1.00	µg/L	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.4	µg/L	1	50.0	95	70 - 130
Toluene-d8		45.2	µg/L	1	50.0	90	70 - 130
4-Bromofluorobenzene (4-BFB)		42.9	µg/L	1	50.0	86	70 - 130

Sample: 51615 - MW #3

Analysis:	Volatiles	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	15072	Date Analyzed:	2005-01-02	Analyzed By:	JG
Prep Batch:	13295	Sample Preparation:	2005-01-02	Prepared By:	JG

Comment: BTEX only

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<1.00	µg/L	1	1.00
Toluene		<1.00	µg/L	1	1.00
Ethylbenzene		<1.00	µg/L	1	1.00
m,p-Xylene		<1.00	µg/L	1	1.00
o-Xylene		<1.00	µg/L	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.3	µg/L	1	50.0	95	70 - 130
Toluene-d8		44.0	µg/L	1	50.0	88	70 - 130
4-Bromofluorobenzene (4-BFB)		42.5	µg/L	1	50.0	85	70 - 130

Sample: 51616 - MW #4

Analysis:	Volatiles	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	15116	Date Analyzed:	2005-01-04	Analyzed By:	JG
Prep Batch:	13334	Sample Preparation:	2005-01-04	Prepared By:	JG

Comment: BTEX only

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<1.00	µg/L	1	1.00
Toluene		**1.22**	µg/L	1	1.00
Ethylbenzene		<1.00	µg/L	1	1.00
m,p-Xylene		<1.00	µg/L	1	1.00
o-Xylene		<1.00	µg/L	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50.9	µg/L	1	50.0	102	70 - 130
Toluene-d8		49.4	µg/L	1	50.0	99	70 - 130
4-Bromofluorobenzene (4-BFB)		47.4	µg/L	1	50.0	95	70 - 130

Sample: 51617 - MW #5

Analysis:	Volatiles	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	15072	Date Analyzed:	2005-01-02	Analyzed By:	JG
Prep Batch:	13295	Sample Preparation:	2005-01-02	Prepared By:	JG

Comment: BTEX only

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<1.00	µg/L	1	1.00
Toluene		<1.00	µg/L	1	1.00
Ethylbenzene		<1.00	µg/L	1	1.00
m,p-Xylene		<1.00	µg/L	1	1.00
o-Xylene		<1.00	µg/L	1	1.00

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		47.8	µg/L	1	50.0	96	70 - 130
Toluene-d8		44.6	µg/L	1	50.0	89	70 - 130
4-Bromofluorobenzene (4-BFB)		43.1	µg/L	1	50.0	86	70 - 130

Method Blank (1) QC Batch: 15072

Parameter	Flag	MDL Result	Units	RL
Bromochloromethane		<0.177	µg/L	1
Dichlorodifluoromethane		<0.208	µg/L	1
Chloromethane (methyl chloride)		<0.134	µg/L	1
Vinyl Chloride		<0.135	µg/L	1
Bromomethane (methyl bromide)		<1.23	µg/L	5
Chloroethane		<0.182	µg/L	1
Trichlorofluoromethane		<0.0610	µg/L	1
Acetone		<5.50	µg/L	10
Iodomethane (methyl iodide)		<0.107	µg/L	5
Carbon Disulfide		<0.0360	µg/L	1
Acrylonitrile		<0.0970	µg/L	1
2-Butanone (MEK)		<0.531	µg/L	5
4-Methyl-2-pentanone (MIBK)		<0.421	µg/L	5
2-Hexanone		<0.168	µg/L	5
trans 1,4-Dichloro-2-butene		<0.517	µg/L	10
1,1-Dichloroethene		<0.136	µg/L	1
Methylene chloride		0.700	µg/L	5
MTBE		<0.123	µg/L	1
trans-1,2-Dichloroethene		<0.126	µg/L	1
1,1-Dichloroethane		<0.0600	µg/L	1
cis-1,2-Dichloroethene		<0.151	µg/L	1
2,2-Dichloropropane		<0.180	µg/L	1
1,2-Dichloroethane (EDC)		<0.113	µg/L	1
Chloroform		<0.141	µg/L	1
1,1,1-Trichloroethane		<0.116	µg/L	1
1,1-Dichloropropene		<0.0540	µg/L	1
Benzene		<0.146	µg/L	1
Carbon Tetrachloride		<0.0790	µg/L	1
1,2-Dichloropropane		<0.111	µg/L	1
Trichloroethene (TCE)		0.170	µg/L	1
Dibromomethane (methylene bromide)		<0.140	µg/L	1
Bromodichloromethane		<0.161	µg/L	1
2-Chloroethyl vinyl ether		<0.388	µg/L	5
cis-1,3-Dichloropropene		<0.0890	µg/L	1
trans-1,3-Dichloropropene		<0.0760	µg/L	1
Toluene		0.280	µg/L	1
1,1,2-Trichloroethane		<0.135	µg/L	1
1,3-Dichloropropane		<0.0990	µg/L	1
Dibromochloromethane		<0.0900	µg/L	1
1,2-Dibromoethane (EDB)		<0.0700	µg/L	1
Tetrachloroethene (PCE)		<0.270	µg/L	1
Chlorobenzene		<0.0540	µg/L	1
1,1,1,2-Tetrachloroethane		<0.0990	µg/L	1

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
Ethylbenzene		0.0600	µg/L	1
m,p-Xylene		0.110	µg/L	1
Bromoform		<0.0570	µg/L	1
Styrene		<0.0910	µg/L	1
o-Xylene		<0.0960	µg/L	1
1,1,2,2-Tetrachloroethane		<0.125	µg/L	1
2-Chlorotoluene		<0.0570	µg/L	1
1,2,3-Trichloropropane		<0.458	µg/L	1
Isopropylbenzene		<0.0850	µg/L	1
Bromobenzene		<0.106	µg/L	1
n-Propylbenzene		0.0700	µg/L	1
1,3,5-Trimethylbenzene		0.0300	µg/L	1
tert-Butylbenzene		<0.107	µg/L	1
1,2,4-Trimethylbenzene		<0.0990	µg/L	1
1,4-Dichlorobenzene (para)		<0.217	µg/L	1
sec-Butylbenzene		<0.0430	µg/L	1
1,3-Dichlorobenzene (meta)		<0.0690	µg/L	1
p-Isopropyltoluene		<0.106	µg/L	1
4-Chlorotoluene		<0.0940	µg/L	1
1,2-Dichlorobenzene (ortho)		<0.100	µg/L	1
n-Butylbenzene		0.0900	µg/L	1
1,2-Dibromo-3-chloropropane		<0.690	µg/L	5
1,2,3-Trichlorobenzene		2.24	µg/L	5
1,2,4-Trichlorobenzene		0.530	µg/L	5
Naphthalene		1.97	µg/L	5
Hexachlorobutadiene		0.450	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		46.1	µg/L	1	50.0	92	70 - 130
Toluene-d8		44.8	µg/L	1	50.0	90	70 - 130
4-Bromofluorobenzene (4-BFB)		43.7	µg/L	1	50.0	87	70 - 130

Method Blank (1) QC Batch: 15116

Parameter	Flag	MDL Result	Units	RL
Bromochloromethane		<0.177	µg/L	1
Dichlorodifluoromethane		<0.208	µg/L	1
Chloromethane (methyl chloride)		<0.134	µg/L	1
Vinyl Chloride		<0.135	µg/L	1
Bromomethane (methyl bromide)		<1.23	µg/L	5
Chloroethane		<0.182	µg/L	1
Trichlorofluoromethane		<0.0610	µg/L	1
Acetone		<5.50	µg/L	10
Iodomethane (methyl iodide)		<0.107	µg/L	5
Carbon Disulfide		<0.0360	µg/L	1
Acrylonitrile		<0.0970	µg/L	1
2-Butanone (MEK)		<0.531	µg/L	5
4-Methyl-2-pentanone (MIBK)		<0.421	µg/L	5

continued ...

method blank continued . . .

Parameter	Flag	MDL Result	Units	RL
2-Hexanone		<0.168	µg/L	5
trans 1,4-Dichloro-2-butene		<0.517	µg/L	10
1,1-Dichloroethene		<0.136	µg/L	1
Methylene chloride		7.04	µg/L	5
MTBE		<0.123	µg/L	1
trans-1,2-Dichloroethene		<0.126	µg/L	1
1,1-Dichloroethane		<0.0600	µg/L	1
cis-1,2-Dichloroethene		<0.151	µg/L	1
2,2-Dichloropropane		<0.180	µg/L	1
1,2-Dichloroethane (EDC)		<0.113	µg/L	1
Chloroform		<0.141	µg/L	1
1,1,1-Trichloroethane		<0.116	µg/L	1
1,1-Dichloropropene		<0.0540	µg/L	1
Benzene		<0.146	µg/L	1
Carbon Tetrachloride		<0.0790	µg/L	1
1,2-Dichloropropane		<0.111	µg/L	1
Trichloroethene (TCE)		0.160	µg/L	1
Dibromomethane (methylene bromide)		<0.140	µg/L	1
Bromodichloromethane		<0.161	µg/L	1
2-Chloroethyl vinyl ether		<0.388	µg/L	5
cis-1,3-Dichloropropene		<0.0890	µg/L	1
trans-1,3-Dichloropropene		<0.0760	µg/L	1
Toluene		0.260	µg/L	1
1,1,2-Trichloroethane		<0.135	µg/L	1
1,3-Dichloropropane		<0.0990	µg/L	1
Dibromochloromethane		<0.0900	µg/L	1
1,2-Dibromoethane (EDB)		<0.0700	µg/L	1
Tetrachloroethene (PCE)		<0.270	µg/L	1
Chlorobenzene		<0.0540	µg/L	1
1,1,1,2-Tetrachloroethane		<0.0990	µg/L	1
Ethylbenzene		0.0600	µg/L	1
m,p-Xylene		0.170	µg/L	1
Bromoform		<0.0570	µg/L	1
Styrene		<0.0910	µg/L	1
o-Xylene		<0.0960	µg/L	1
1,1,2,2-Tetrachloroethane		<0.125	µg/L	1
2-Chlorotoluene		<0.0570	µg/L	1
1,2,3-Trichloropropane		<0.458	µg/L	1
Isopropylbenzene		<0.0850	µg/L	1
Bromobenzene		<0.106	µg/L	1
n-Propylbenzene		0.0900	µg/L	1
1,3,5-Trimethylbenzene		0.0800	µg/L	1
tert-Butylbenzene		<0.107	µg/L	1
1,2,4-Trimethylbenzene		<0.0990	µg/L	1
1,4-Dichlorobenzene (para)		<0.217	µg/L	1
sec-Butylbenzene		0.100	µg/L	1
1,3-Dichlorobenzene (meta)		0.100	µg/L	1
p-Isopropyltoluene		<0.106	µg/L	1
4-Chlorotoluene		<0.0940	µg/L	1
1,2-Dichlorobenzene (ortho)		0.110	µg/L	1
n-Butylbenzene		0.160	µg/L	1
1,2-Dibromo-3-chloropropane		<0.690	µg/L	5

continued . . .

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
1,2,3-Trichlorobenzene		3.36	µg/L	5
1,2,4-Trichlorobenzene		0.650	µg/L	5
Naphthalene		1.60	µg/L	5
Hexachlorobutadiene		0.820	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50.1	µg/L	1	50.0	100	70 - 130
Toluene-d8		50.1	µg/L	1	50.0	100	70 - 130
4-Bromofluorobenzene (4-BFB)		48.7	µg/L	1	50.0	97	70 - 130

Laboratory Control Spike (LCS-1) QC Batch: 15072

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
1,1-Dichloroethene	77.8	80.4	µg/L	1	100	<0.136	78	3	70 - 130	20
Benzene	82.1	83.2	µg/L	1	100	<0.146	82	1	70 - 130	20
Trichloroethene (TCE)	95.6	96.7	µg/L	1	100	<0.117	96	1	70 - 130	20
Toluene	91.8	93.3	µg/L	1	100	<0.0600	92	2	70 - 130	20
Chlorobenzene	92.9	95.7	µg/L	1	100	<0.0540	93	3	70 - 130	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
Dibromofluoromethane	45.2	45.3	µg/L	1	50.0	90	91	70 - 130
Toluene-d8	44.6	44.8	µg/L	1	50.0	89	90	70 - 130
4-Bromofluorobenzene (4-BFB)	44.0	44.2	µg/L	1	50.0	88	88	70 - 130

Laboratory Control Spike (LCS-1) QC Batch: 15116

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	RPD	Rec. Limit	RPD Limit
1,1-Dichloroethene	92.3	93.4	µg/L	1	100	<0.136	92	1	70 - 130	20
Benzene	94.0	95.6	µg/L	1	100	<0.146	94	2	70 - 130	20
Trichloroethene (TCE)	92.9	94.0	µg/L	1	100	<0.117	93	1	70 - 130	20
Toluene	91.9	92.8	µg/L	1	100	<0.0600	92	1	70 - 130	20
Chlorobenzene	93.2	93.8	µg/L	1	100	<0.0540	93	1	70 - 130	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
Dibromofluoromethane	49.2	49.2	µg/L	1	50.0	98	98	70 - 130
Toluene-d8	49.8	50.2	µg/L	1	50.0	100	100	70 - 130
4-Bromofluorobenzene (4-BFB)	48.7	49.0	µg/L	1	50.0	97	98	70 - 130

Standard (CCV-1) QC Batch: 15072

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	50.0	41.1	82	80 - 120	2005-01-02
1,1-Dichloroethene		µg/L	50.0	46.6	93	80 - 120	2005-01-02
Chloroform		µg/L	50.0	45.3	91	80 - 120	2005-01-02
1,2-Dichloropropane		µg/L	50.0	43.6	87	80 - 120	2005-01-02
Toluene		µg/L	50.0	51.4	103	80 - 120	2005-01-02
Chlorobenzene		µg/L	50.0	52.7	105	80 - 120	2005-01-02
Ethylbenzene		µg/L	50.0	51.8	104	80 - 120	2005-01-02

Standard (CCV-1) QC Batch: 15116

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Vinyl Chloride		µg/L	50.0	54.5	109	80 - 120	2005-01-04
1,1-Dichloroethene		µg/L	50.0	50.6	101	80 - 120	2005-01-04
Chloroform		µg/L	50.0	50.1	100	80 - 120	2005-01-04
1,2-Dichloropropane		µg/L	50.0	51.1	102	80 - 120	2005-01-04
Toluene		µg/L	50.0	50.6	101	80 - 120	2005-01-04
Chlorobenzene		µg/L	50.0	52.2	104	80 - 120	2005-01-04
Ethylbenzene		µg/L	50.0	53.2	106	80 - 120	2005-01-04

Page 1 of 1

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296
email: lab@traceanalysis.com

TraceAnalysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 4122809

Company Name: BBC INTERNATIONAL
Phone #: (505) 397 6388

Address: (Street, City, Zip) 1324 W. MARLAND
Fax #: (505) 397 0397
e-mail:

Contact Person: CLIFF BRUNSON

Invoice to: (If different from above)

Project #: PLAINS TNM 97-23
Project Name: TNM 97-23

Project Location: EUNICE NM
Sampler Signature: Rogen Hernandez

ANALYSIS REQUEST (Circle or Specify Method No.)

MTBE 8021B/602 · BTEX 8021B/602 · TPH 418.1/TX1005 · TX 1005 Extended (C35) · PAH 8270C · Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 · TCLP Metals Ag As Ba Cd Cr Pb Se Hg · TCLP Volatiles · TCLP Semi Volatiles · TCLP Pesticides · RCI · GC/MS Vol 8260B/624 BTEX · GC/MS Semi Vol 8270C/625 · PCB's 8082/608 · Pesticides 8081A/608 · BOD TSS pH · Moisture Content · Turn Around Time if different from standard · Hold

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	GC/MS Vol 8260B BTEX
51613	MW # 1	2	VOA	✓				✓				✓		12-27	12:07	✓
614	MW # 2	2	VOA	✓				✓				✓		12-27	12:40	✓
615	MW # 3	2	VOA	✓				✓				✓		12-27	1:20	✓
616	MW # 4	2	VOA	✓				✓				✓		12-27	1:50	✓
617	MW # 5	2	VOA	✓				✓				✓		12-27	2:30	✓

Relinquished by: Rogen Hernandez Date: 12-27-04 Time: 3:30
Received by: Date: Time:

Relinquished by: Date: Time:
Received by: Date: Time:

Relinquished by: Date: Time:
Received at Laboratory by: Brenda Ward Date: 12/28/04 Time: 10:47

LAB USE ONLY
Intact (Y) / N
Headspace Y / (N)
Temp 3°C
Log-in Review MA

REMARKS:

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

Carrier # TNMHO 903 339-2665

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

ORIGINAL COPY

APPENDIX V

FORM C-141

TNM 97-23

April 2005

Plains Marketing, L.P.
Houston, Texas

Prepared by:
BBC International, Inc.

District I - (505) 393-6161
P. O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 South First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131

State of New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-141
Originated 2/13/97

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	Contact
Texas-New Mexico Pipe Line Company	Edwin H. Gripp
Address	**Telephone No.**
Box 60028, San Angelo, TX 76906	(915) 947-9000
Facility Name	**Facility Type**
14" main line	pipe line

Surface Owner	Mineral Owner	Lease No.
L. V. Sims Estate		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	14	22S	37E					Lea

NATURE OF RELEASE

Type of Release	Volume of Release	Volume Recovered
Sour Crude	617 barrels	400 barrels
Source of Release	**Date and Hour of Occurrence**	**Date and Hour of Discovery**
14" main line	Unknown	10-22-97 11:45 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	**If YES, To Whom?**	Bonnie Pritchard
By Whom?	**Date and Hour**	
Johnny W. Chapman	10-22-97 2:30 PM	
Was a Watercourse Reached? ☐ Yes ☒ No	**If YES, Volume Impacting the Watercourse.**	—

If a Watercourse was Impacted, Describe Fully.*

—

Describe Cause of Problem and Remedial Action Taken.*

Internal Corrosion

Describe Area Affected and Cleanup Action Taken.*

17 385 sq. ft. pasture land. On site remediation.

Describe General Conditions Prevailing (Temperature, Precipitation, etc.).*

70° Cloudy Dry

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: [signature]

Printed Name: Edwin H. Gripp

Title: District Manager

Date: Phone: 915-947-9001

OIL CONSERVATION DIVISION

Approved by District Supervisor:

Approval Date: Expiration Date:

Conditions of Approval: Attached ☐

* Attach Additional Sheets If Necessary

State Corp. Commission
Pipe Line Division

Hazardous Waste Section
NM Environmental Improvement Div.

JWC JAS TNM-97-23