

AP - 36

ANNUAL MONITORING REPORT

YEAR(S):
2007

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
NMOCD #1R-0139**

AP-36

2007 Annual Groundwater Monitoring Report

**RECEIVED
2008 APR 7 PM 3 33**

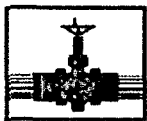
April 2008

**PLAINS MARKETING, L.P.
333 CLAY STREET, SUITE 1600
HOUSTON, TEXAS 77002**

Prepared By:

BBC International, Inc.

**World-Wide Environmental Specialists
Hobbs, New Mexico**



**PLAINS
ALL AMERICAN**

RECEIVED

2008 APR 7 PM 3 33

March 28, 2008

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

Re: Plains All American – Annual Monitoring Reports
2 Sites in Lea County, New Mexico

Dear Mr. Hansen,

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 reports for the following sites:

TNM 97-23
LF-37

Section 14, Township 22 South, Range 37 East, Lea County
Section 19, Township 19 South, Range 37 East, Lea County

BBC prepared these documents and has vouched for their accuracy and completeness, and on behalf of Plains All American, I have personally reviewed the documents and interviewed BBC in order to verify the accuracy and completeness of these documents. It is based upon these inquiries and reviews that Plains All American submits the enclosed Annual Monitoring Reports for the above facilities.

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

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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. 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 2007 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 2007 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.

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

FIELD ACTIVITIES

In compliance with the New Mexico Oil Conservation Division (NMOCD) letter of April 28, 2004, allowing Plains to modify the quarterly gauging of the monitor wells as follows: quarterly sampling of MW-4, and annual sampling of MW-1, MW-2, MW-3, and MW-5. The monitor wells were gauged and sampled on April 27, June 27, September 26, and December 19, 2007.

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 elevation contours, generated from water level measurements acquired during the quarterly sampling events of 2007 indicated a variable gradient of approximately 0.011 ft/ft to 0.02 ft/ft to the south southeast. The depth to groundwater as measured from the top of the well casing ranged between 56.40 to 61.68 feet for the shallow aquifer.

LABORATORY RESULTS

Groundwater samples collected during the four quarters of 2007 monitoring events were delivered to Trace Analysis, Inc. of Lubbock, Texas for determination of BTEX constituent concentrations by EPA Method SW846-8021b. 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 2007 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, and MW-5. MW-4 detected benzene concentration of 0.0240 ppm in the second quarter of 2007. This appears to be an anomaly since the first, third, and fourth quarters were non-detect as were the previous eight quarters in the years 2005 and 2006. The groundwater monitoring wells have now recorded twelve (12) consecutive sampling quarters for constituent concentrations below 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 2007. Groundwater elevation contours, generated from water level measurements acquired during the quarterly sampling events of 2007 indicated a variable gradient of approximately 0.011 ft/ft to 0.02 ft/ft to the south southeast. See **Figures 2-5**.

Review of laboratory analytical results generated from analysis of the groundwater samples obtained during the 2007 monitoring period indicated that benzene and BTEX constituent concentrations are below NMOCD regulatory standards in all monitor wells for four (4) quarters. No detectable or measurable amounts of PSH were recorded during the monitoring period. Analytical results for the reporting period indicate total BTEX concentrations are below the applicable NMOCD regulatory standard for all sampled monitor wells. The groundwater monitoring wells have now recorded twelve (12) consecutive sampling quarters for constituent concentrations below NMOCD regulatory standards.

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

CONCLUSION

Normal activities in 2008 would 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.

However, due to the fact that these monitor wells have been below NMOCD guidelines for the required analytes over 12 consecutive quarters, Plains requests that all of the groundwater monitoring wells be permanently plugged and abandoned according to NMOCD requirements.

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.

DISTRIBUTION

Copy 1: Ed Hansen
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Copy 2: Larry Johnson
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division (District 1)
1625 French Drive
Hobbs, New Mexico 88240

Copy 3: Camille Reynolds
Plains Marketing, L.P.
3112 Highway 82
Lovington, NM 88260
cjreynolds@paalp.com

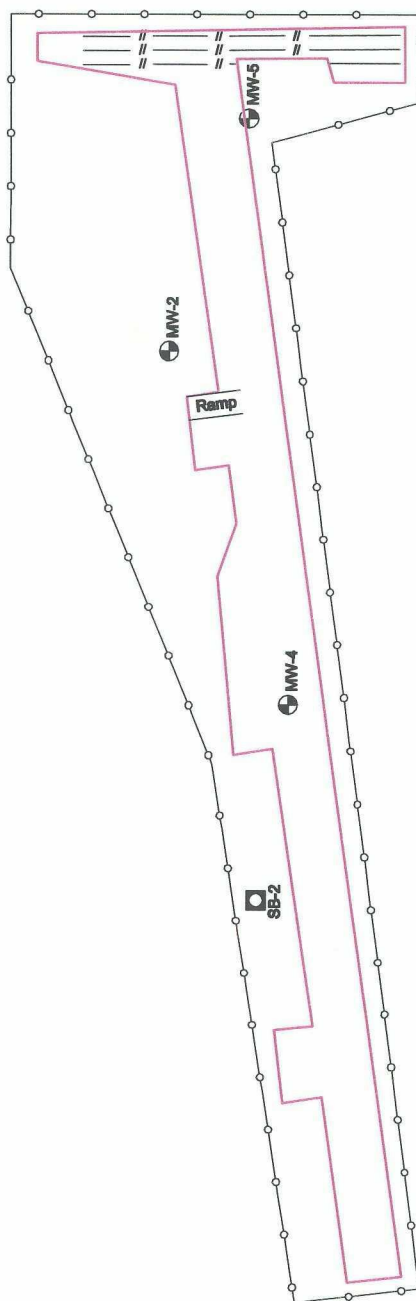
Copy 4: Jeff Dann
Plains Marketing, L.P.
333 Clay Street
Suite 1600
Houston, Texas 77002
jpdann@paalp.com

Copy 5: BBC International, Inc.
1324 W. Marland
Hobbs, NM 88240

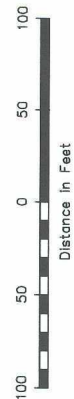
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MW-1



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



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

32° 23' 46.3N 103° 07' 51.8W

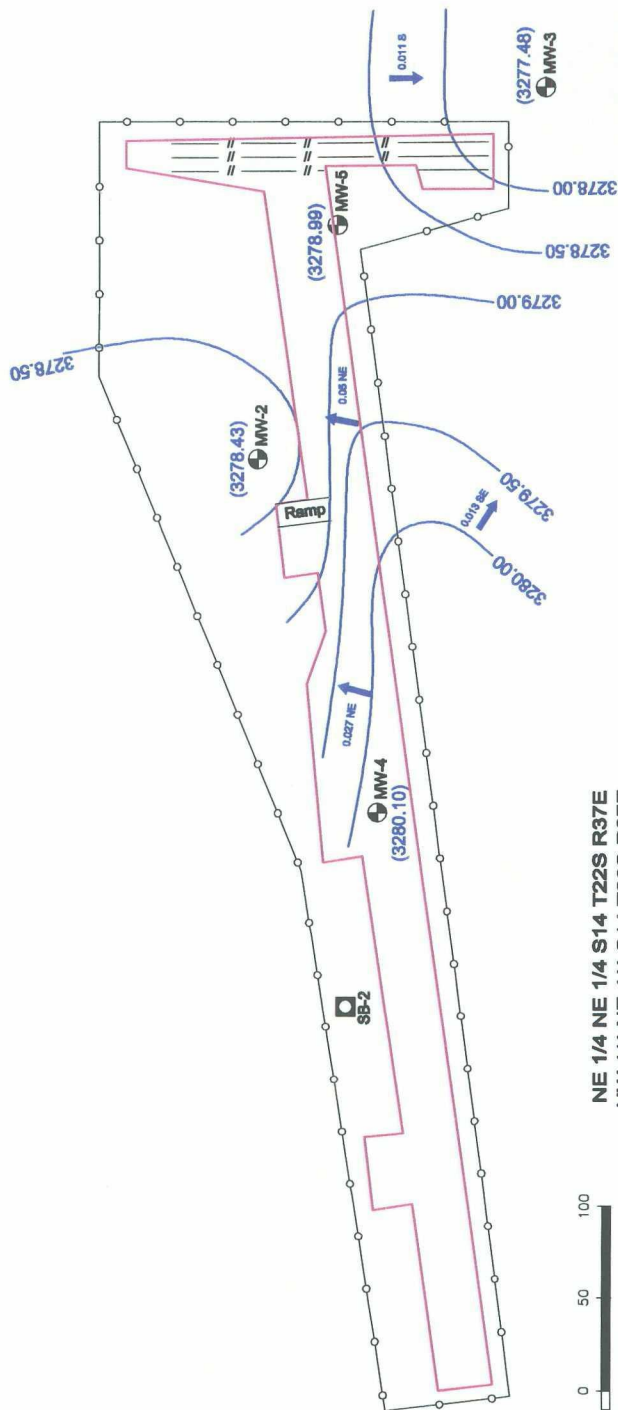
Scale: 1" = 100' Prep By: LA

Checked By: CB

FEBRUARY 13, 2008



MW-1
(3278.65)



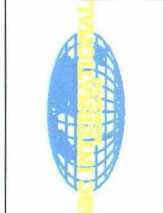
NE 1/4 NE 1/4 S14 T22S R37E
NW 1/4 NE 1/4 S14 T22S R37E



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

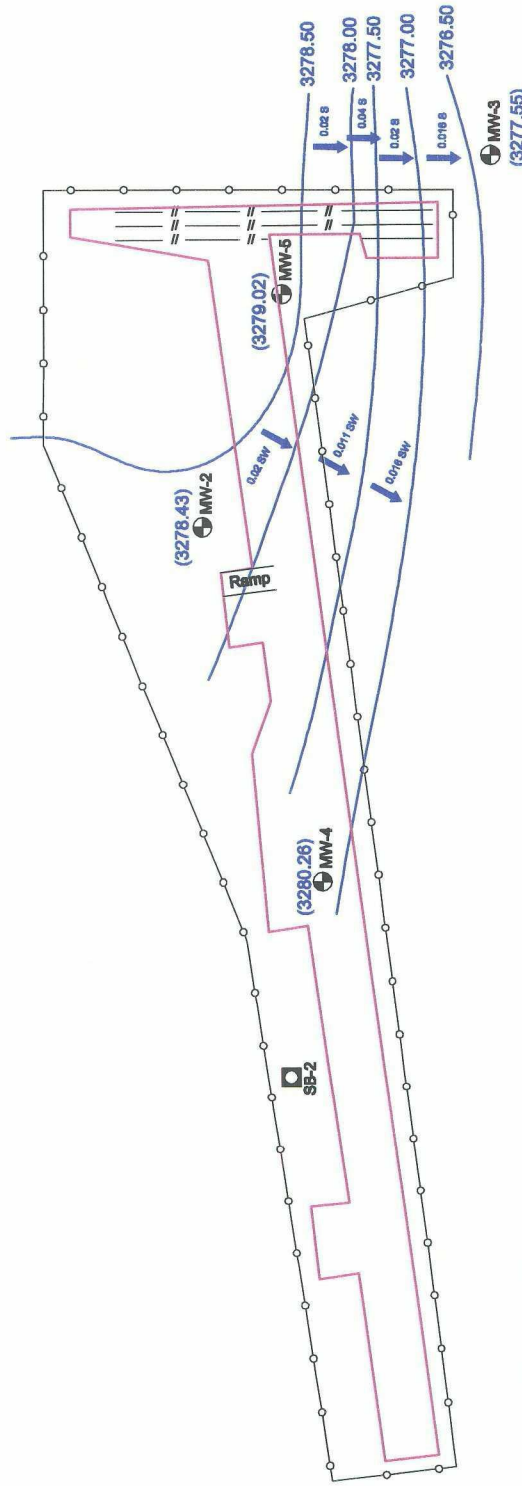
Figure 2
Inferred Groundwater Gradient Map (4/27/07)
1st Quarter
Plains Marketing, L.P.
TNM 97-23
Eunice, NM



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
FEBRUARY 13, 2008



MW-1
(3278.70)



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

Figure 3

Inferred Groundwater
Gradient Map (6/27/07)
2nd Quarter
Plains Marketing, L.P.
TNM 97-23
Eunice, NM

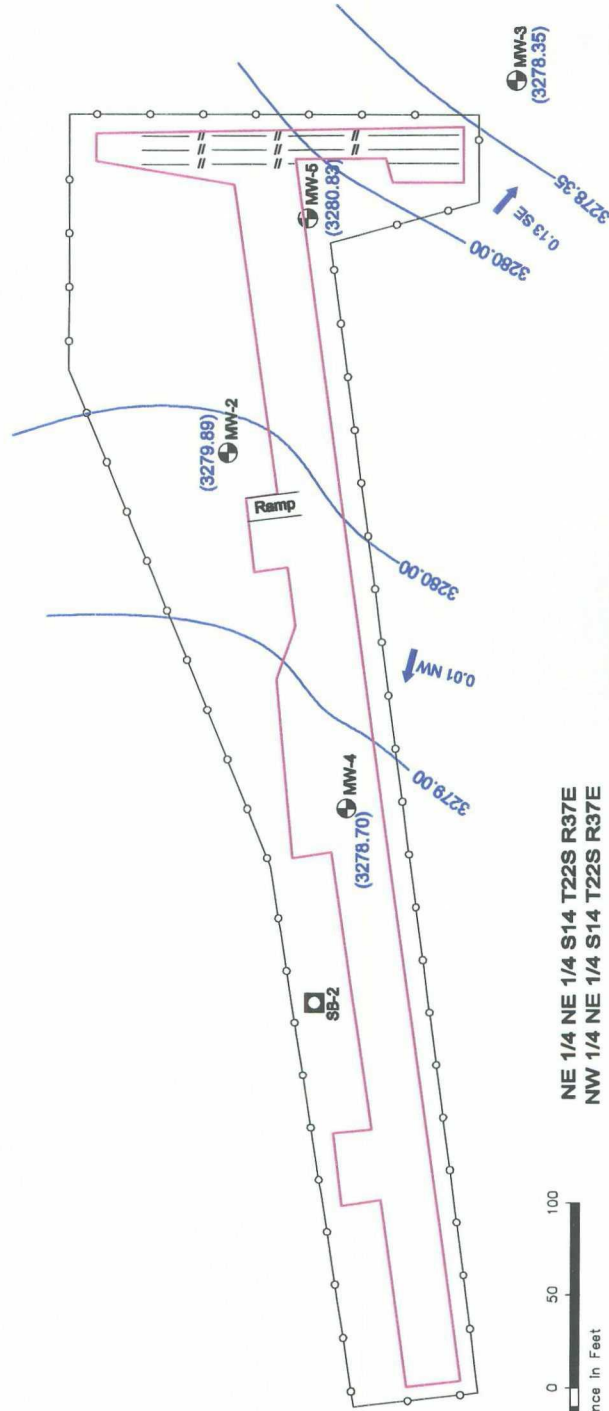
BBC International, Inc.
World-Wide Environmental Specialists
Hobbs, New Mexico



32° 23' 45.3N 103° 07' 51.8W
Scale: 1" = 100'
Prep By: LA
Checked By: CB
FEBRUARY 13, 2008



MW-1
(3280.70)



Distance In Feet
0 50 100

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 Detected
- 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 (9/26/07)
3rd Quarter
Plains Marketing, L.P.
TNM 97-23
Eunice, NM

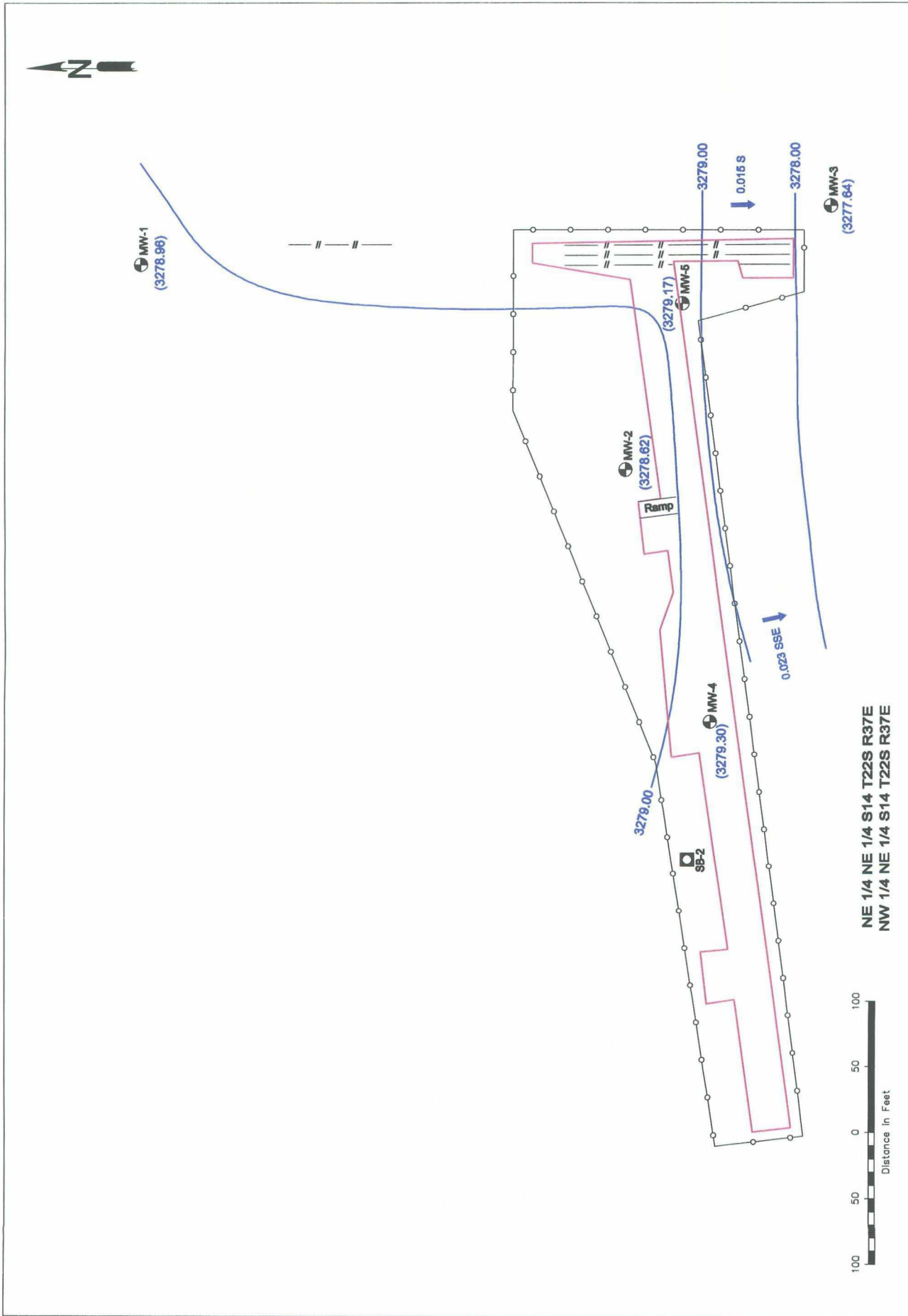


BBC International, Inc.
World-Wide Environmental Specialists
Hobbs, New Mexico

32° 23' 45.3N 103° 07' 51.8W

Scale: 1" = 100' Prep By: LA Checked By: CB

FEBRUARY 13, 2008



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 (12/19/07) 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: CB FEBRUARY 13, 2008	BBC INTERNATIONAL
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TABLE 1

GROUNDWATER ELEVATION DATA

TNM 97-23

LEA COUNTY, NEW MEXICO

Plains EMS Number: TNM 97-23

NUMBER	MEASURED	CASING	PRODUCT	WATER	THICKNESS	GROUNDWATER
MW - 1	11/04/99	3,338.00	-	59.26	0.00	3,278.74
	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
	03/16/05	3,338.00	-	59.60	0.00	3,278.40
	06/14/05	3,338.00	-	59.53	0.00	3,278.47
	09/28/05	3,338.00	-	59.42	0.00	3,278.58
	12/08/05	3,338.00	-	59.43	0.00	3,278.57
	03/09/06	3,338.00	-	59.35	0.00	3,278.65
	06/24/06	3,338.00	-	59.30	0.00	3,278.70
	09/25/06	3,338.00	-	59.34	0.00	3,278.66
	12/28/06	3,338.00	-	59.30	0.00	3,278.70
	03/31/07	3,338.00	-	59.20	0.00	3,278.80
	06/27/07	3,338.00	-	59.30	0.00	3,278.70
	09/26/07	3,338.00	-	57.30	0.00	3,280.70
	12/19/07	3,338.00	-	59.04	0.00	3,278.96

TABLE 1

GROUNDWATER ELEVATION DATA

TNM 97-23

LEA COUNTY, NEW MEXICO

Plains EMS Number: TNM 97-23

MW - 2	02/25/00	3,336.79	-	58.57		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
	03/16/05	3,336.79	-	58.52	0.00	3,278.27
	06/14/05	3,336.79	-	58.46	0.00	3,278.33
	09/28/05	3,336.79	-	58.37	0.00	3,278.42
	12/08/05	3,336.79	-	58.37	0.00	3,278.42
	03/09/06	3,336.79	-	58.40	0.00	3,278.39
	06/24/06	3,336.79	-	58.36	0.00	3,278.43
	09/25/06	3,336.79	-	58.38	0.00	3,278.41
	12/28/06	3,336.79	-	58.32	0.00	3,278.47
	03/31/07	3,336.79	-	58.36	0.00	3,278.43
	06/27/07	3,336.79	-	58.39	0.00	3,278.40
	09/26/07	3,336.79	-	56.90	0.00	3,279.89
	12/19/07	3,336.79	-	58.17	0.00	3,278.62

TABLE 1

GROUNDWATER ELEVATION DATA

TNM 97-23

LEA COUNTY, NEW MEXICO

Plains EMS Number: TNM 97-23

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
	03/16/05	3,339.32	-	62.03	0.00	3,277.29
	06/14/05	3,339.32	-	61.99	0.00	3,277.33
	09/28/05	3,339.32	-	61.84	0.00	3,277.48
	12/08/05	3,339.32	-	61.91	0.00	3,277.41
	03/09/06	3,339.32	-	61.80	0.00	3,277.52
	06/24/06	3,339.32	-	61.77	0.00	3,277.55
	09/25/06	3,339.32	-	61.79	0.00	3,277.53
	12/28/06	3,339.32	-	61.82	0.00	3,277.50
	03/31/07	3,339.32	-	61.84	0.00	3,277.48
	06/27/07	3,339.32	-	62.90	0.00	3,276.42
	09/26/07	3,339.32	-	60.97	0.00	3,278.35
	12/19/07	3,339.32	-	61.68	0.00	3,277.64

TABLE 1
GROUNDWATER ELEVATION DATA
TNM 97-23
LEA COUNTY, NEW MEXICO
Plains EMS Number: TNM 97-23

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
	03/16/05	3,336.50	-	56.43	0.00	3,280.07
	06/14/05	3,336.50	-	56.57	0.00	3,279.93
	09/28/05	3,336.50	-	56.33	0.00	3,280.17
	12/08/05	3,336.50	-	56.30	0.00	3,280.20
	03/09/06	3,336.50	-	56.27	0.00	3,280.23
	06/24/06	3,336.50	-	56.24	0.00	3,280.26
	09/25/06	3,336.50	-	56.27	0.00	3,280.23
	12/28/06	3,336.50	-	56.36	0.00	3,280.14
	03/31/07	3,336.50	-	56.40	0.00	3,280.10
	06/27/07	3,336.50	-	59.42	0.00	3,277.08
	09/26/07	3,336.50	-	57.80	0.00	3,278.70
	12/19/07	3,336.50	-	57.20	0.00	3,279.30

TABLE 1
GROUNDWATER ELEVATION DATA
TNM 97-23
LEA COUNTY, NEW MEXICO
Plains EMS Number: TNM 97-23

MW - 5	02/25/00	3,337.21	-	59.36	0.00	3,277.85
	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
	03/16/05	3,338.21	-	59.41	0.00	3,278.80
	06/14/05	3,338.21	-	59.40	0.00	3,278.81
	09/28/05	3,338.21	-	59.30	0.00	3,278.91
	12/08/05	3,338.21	-	59.26	0.00	3,278.95
	03/09/06	3,338.21	-	59.21	0.00	3,279.00
	06/24/06	3,338.21	-	59.19	0.00	3,279.02
	09/25/06	3,338.21	-	59.22	0.00	3,278.99
	12/28/06	3,338.21	-	59.22	0.00	3,278.99
	03/31/07	3,338.21	-	59.22	0.00	3,278.99
	06/27/07	3,338.21	-	59.31	0.00	3,278.90
	09/26/07	3,338.21	-	57.48	0.00	3,280.73
	12/19/07	3,338.21	-	59.04	0.00	3,279.17

* Inaccessible due to excavation

Elevations based on the North American Vertical Datum of 1929.

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

TNM 97-23

LEA COUNTY, NEW MEXICO

Plains EMS Number: TNM 97-23

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	METHODS: EPA SW 846 - 8220, 8221B, 8260, 5230, 8021B				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
MW - 1	05/12/99	<0.001	<0.001	<0.001	<0.001	<0.001
	08/23/99	<0.001	<0.001	<0.001	<0.001	<0.001
	11/04/99	<0.001	<0.001	<0.001	<0.001	<0.001
	01/13/00	<0.001	<0.001	<0.001	<0.001	<0.001
	05/18/00	<0.001	<0.001	<0.001	<0.001	<0.001
	06/06/00	<0.001	<0.001	<0.001	<0.001	<0.001
	09/15/00	<0.001	<0.001	<0.001	<0.001	<0.001
	11/30/00	<0.001	<0.001	<0.001	<0.001	<0.001
	03/16/01	<0.001	<0.001	<0.001	<0.001	<0.001
	06/04/01	<0.005	0.0198	0.0197	0.0792	
	09/24/01	<0.001	<0.001	<0.001	<0.001	<0.001
	10/30/01	<0.001	<0.001	<0.001	<0.001	<0.001
	01/28/02	<0.001	<0.001	<0.001	<0.001	<0.001
	05/21/02	<0.001	<0.001	<0.001	<0.001	<0.001
	09/19/02	<0.001	<0.001	<0.001	<0.001	<0.001
	12/16/02	<0.001	<0.001	<0.001	<0.001	<0.001
	02/24/03	<0.001	<0.001	<0.001	<0.001	<0.001
	05/20/03	<0.001	<0.001	<0.001	<0.001	<0.001
	08/28/03	<0.001	<0.001	<0.001	<0.001	<0.001
	11/26/03	<0.001	<0.001	<0.001	<0.002	<0.001
	02/19/04	<0.001	<0.001	<0.001	<0.002	<0.001
	12/27/04	<0.001	<0.001	<0.001	<0.001	<0.001
	12/08/05	<0.00100	<0.00100	<0.00100	<0.00100	
	12/28/06	<0.00100	<0.00100	<0.00100	<0.00100	
	12/19/07	<0.00100	<0.00100	<0.00100	<0.00100	

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

TNM 97-23

LEA COUNTY, NEW MEXICO

Plains EMS Number: TNM 97-23

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	METHODS: EPA SW 846 - 8220, 8221B, 8260, 5230, 8021B				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
MW - 2	02/25/00	0.001	<0.001	<0.001	<0.001	<0.001
	05/18/00	<0.001	<0.001	<0.001	<0.001	<0.001
	06/06/00	0.005	0.003	<0.001	<0.001	0.001
	09/15/00	<0.001	<0.001	<0.001	<0.001	<0.001
	11/30/00	0.012	0.004	<0.001	<0.001	0.002
	03/16/01	0.002	<0.001	<0.001	<0.001	<0.001
	06/04/01	0.009	<0.005	<0.005	<0.005	
	09/24/01	0.003	<0.001	<0.001	<0.001	<0.001
	10/30/01	0.002	<0.001	<0.001	<0.001	<0.001
	01/28/02	0.004	<0.001	<0.001	<0.001	<0.001
	05/21/02	0.006	0.001	<0.001	0.001	<0.001
	09/19/02	<0.001	<0.001	<0.001	<0.001	<0.001
	12/16/02	0.005	<0.001	<0.001	<0.001	<0.001
	02/24/03	<0.001	<0.001	<0.001	<0.001	<0.001
	05/20/03	<0.001	<0.001	<0.001	<0.001	<0.001
	08/28/03	<0.001	<0.001	<0.001	<0.001	<0.001
	11/26/03	<0.001	<0.001	<0.001	<0.002	<0.001
	02/19/04	<0.001	<0.001	<0.001	<0.002	<0.001
	12/27/04	<0.001	<0.001	<0.001	<0.001	<0.001
	12/08/05	<0.00100	<0.00100	<0.00100	<0.00100	
	12/28/06	<0.00100	<0.00100	<0.00100	<0.00100	
	12/19/07	<0.00100	<0.00100	<0.00100	<0.00100	

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

TNM 97-23

LEA COUNTY, NEW MEXICO

Plains EMS Number: TNM 97-23

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	METHODS: EPA SW 846 - 8220, 8221B, 8260, 5230, 8021B				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
MW - 3	02/25/00	0.003	0.002	<0.001	<0.001	<0.001
	05/18/00	0.001	<0.001	<0.001	<0.001	<0.001
	06/06/00	<0.001	<0.001	<0.001	<0.001	<0.001
	09/15/00	<0.001	<0.001	<0.001	<0.001	<0.001
	11/30/00	<0.001	<0.001	<0.001	<0.001	<0.001
	03/16/01	0.002	<0.001	<0.001	<0.001	<0.001
	06/04/01	0.008	<0.005	<0.005	<0.005	
	09/24/01	<0.001	<0.001	<0.001	<0.001	<0.001
	10/30/01	<0.001	<0.001	<0.001	<0.001	<0.001
	01/28/02	<0.001	<0.001	<0.001	<0.001	<0.001
	05/21/02	<0.001	<0.001	<0.001	<0.001	<0.001
	09/19/02	<0.001	<0.001	<0.001	<0.001	<0.001
	12/16/02	0.002	<0.001	<0.001	<0.001	<0.001
	02/24/03	<0.001	<0.001	<0.001	<0.001	<0.001
	05/20/03	<0.001	<0.001	<0.001	<0.001	<0.001
	08/28/03	<0.001	<0.001	<0.001	<0.001	<0.001
	11/26/03	<0.001	<0.001	<0.001	<0.002	<0.001
	02/19/04	<0.001	<0.001	<0.001	<0.002	<0.001
	12/27/04	<0.001	<0.001	<0.001	<0.001	<0.001
	12/08/05	<0.00100	<0.00100	<0.00100	<0.00100	
	12/28/06	<0.00100	<0.00100	<0.00100	<0.00100	
	12/19/07	<0.00100	<0.00100	<0.00100	<0.00100	

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

TNM 97-23

LEA COUNTY, NEW MEXICO

Plains EMS Number: TNM 97-23

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	METHODS: EPA SW 846 - 8220, 8221B, 8260, 5230, 8021B				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
MW - 4	02/25/00	0.012	0.007	0.001	<0.001	<0.001
	05/18/00	0.002	<0.001	<0.001	<0.001	<0.001
	06/06/00	0.022	0.014	0.003	0.009	
	09/15/00	0.018	0.008	<0.001	<0.001	<0.001
	11/30/00	0.041	0.027	0.005	0.015	
	03/16/01	0.023	0.013	0.002	0.005	0.001
	06/04/01	0.015	0.020	<0.005	<0.005	
	09/24/01	0.027	0.016	0.003	0.007	0.003
	10/30/01	0.018	0.011	0.001	0.004	0.001
	01/28/02	NA	NA	NA	NA	NA
	05/21/02	NA	NA	NA	NA	NA
	09/19/02	NA	NA	NA	NA	NA
	12/16/02	NA	NA	NA	NA	NA
	02/24/03	NA	NA	NA	NA	NA
	05/20/03	<0.001	<0.001	<0.001	<0.001	<0.001
	08/28/03	<0.001	<0.001	<0.001	<0.001	<0.001
	11/26/03	<0.001	<0.001	<0.001	<0.002	<0.001
	02/19/04	<0.001	<0.001	<0.001	<0.002	<0.001
	05/13/04	<0.001	<0.001	<0.001	<0.002	<0.001
	08/23/04	<0.001	<0.001	<0.001	<0.002	<0.001
	05/13/04	<0.001	<0.001	<0.001	<0.002	<0.001
	08/23/04	<0.001	<0.001	<0.001	<0.002	<0.001
	12/27/04	<0.001	0.00122	<0.001	<0.001	<0.001
	03/16/05	<0.001	<0.001	<0.001	<0.001	<0.001
	06/14/05	<0.001	<0.001	<0.001	<0.001	<0.001
	09/28/05	<0.001	<0.001	<0.001	<0.001	<0.001
	12/08/05	<0.00100	<0.00100	<0.00100	<0.00100	
	03/09/06	<0.00100	<0.00100	<0.00100	<0.00100	
	06/24/06	<0.00100	<0.00100	<0.00100	<0.00100	
	09/25/06	<0.00100	<0.00100	<0.00100	<0.00100	
	12/28/06	<0.00100	<0.00100	<0.00100	<0.00100	
	03/27/07	<1.00	<1.00	<1.00	<1.00	<1.00
	06/27/07	0.0240	<0.00100	0.00360	0.00440	
	09/26/07	<0.00100	<0.00100	<0.00100	<0.00100	
	12/19/07	<0.00100	<0.00100	<0.00100	<0.00100	

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

TNM 97-23
LEA COUNTY, NEW MEXICO
Plains EMS Number: TNM 97-23

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	METHODS: EPA SW 846 - 8220, 8221B, 8260, 5230, 8021B				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
MW - 5	02/25/00	0.001	<0.001	<0.001	<0.001	<0.001
	05/18/00	<0.001	<0.001	<0.001	0.002	
	06/06/00	0.002	0.001	<0.001	<0.001	<0.001
	09/15/00	<0.001	<0.001	<0.001	<0.001	<0.001
	11/30/00	<0.001	<0.001	<0.001	<0.001	<0.001
	03/16/01	<0.001	<0.001	<0.001	<0.001	<0.001
	06/04/01	<0.005	<0.005	<0.005	<0.005	
	09/24/01	<0.001	<0.001	<0.001	<0.001	<0.001
	10/30/01	<0.001	<0.001	<0.001	<0.001	<0.001
	01/28/02	<0.001	<0.001	<0.001	<0.001	<0.001
	05/21/02	<0.001	<0.001	<0.001	<0.001	<0.001
	09/19/02	<0.001	<0.001	<0.001	<0.001	<0.001
	12/16/02	<0.001	<0.001	<0.001	<0.001	<0.001
	02/24/03	<0.001	<0.001	<0.001	<0.001	<0.001
	05/20/03	<0.001	<0.001	<0.001	<0.001	<0.001
	08/28/03	<0.001	<0.001	<0.001	<0.001	<0.001
	11/26/03	<0.001	<0.001	<0.001	<0.002	<0.001
	02/19/04	<0.001	<0.001	<0.001	<0.002	<0.001
	12/27/04	<0.001	<0.001	<0.001	<0.001	<0.001
	12/08/05	<0.00100	<0.00100	<0.00100	<0.00100	
	12/28/06	<0.00100	<0.00100	<0.00100	<0.00100	
	12/19/07	<0.00100	<0.00100	<0.00100	<0.00100	

TABLE 2

CONCENTRATIONS OF BTEX IN GROUNDWATER

TNM 97-23

LEA COUNTY, NEW MEXICO

Plains EMS Number: TNM 97-23

All concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	METHODS: EPA SW 846 - 8220, 8221B, 8260, 5230, 8021B				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
MW - 6	08/28/03	<0.001	<0.001	<0.001	<0.001	<0.001
SAMPLE LOCATION	SAMPLE DATE	METHODS: EPA SW 846 - 8220, 8221B, 8260, 5230, 8021B				
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
EB - 1	09/15/00	<0.001	<0.001	<0.001	<0.001	<0.001
	11/30/00	<0.001	<0.001	<0.001	<0.001	<0.001
	03/16/01	<0.001	<0.001	<0.001	<0.001	<0.001
	06/04/01	<0.005	<0.005	<0.005	<0.005	
	09/24/01	<0.001	<0.001	<0.001	<0.001	<0.001
	10/30/01	<0.001	<0.001	<0.001	<0.001	<0.001
	01/28/02	<0.001	<0.001	<0.001	<0.001	<0.001
	05/21/02	<0.001	<0.001	<0.001	<0.001	<0.001
	09/19/02	<0.001	<0.001	<0.001	<0.001	<0.001
	12/16/02	<0.001	<0.001	<0.001	<0.001	<0.001

Note: NA denotes well MW-4 was not accessible for sampling on date specified due to on-site excavation.

m, p and o xylenes combined when analyzed by Trace Laboratories Inc. only.

MW - 6 was a duplicate sample collected on date indicated.

APPENDIX I

Laboratory Results
1st Quarter 2007

TNM 97-23

April 2008

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: March 27, 2007

Work Order: 7032220



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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
119498	MW #4	water	2007-03-20	13:50	2007-03-22

Sample: 119498 - MW #4

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

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 806•378•1296 806•794•1296 FAX 806•794•1296
200 East Sunset Road, Suite F 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

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

Report Date: July 3, 2007

Work Order: 7062911



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
128812	MW #4	water	2007-06-27	14:50	2007-06-29

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 4 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: 119498 - MW #4

Analysis: Volatiles
QC Batch: 35873
Prep Batch: 31131

Analytical Method: S 8260B
Date Analyzed: 2007-03-24
Sample Preparation: 2007-03-24

Prep Method: S 5030B
Analyzed By: JG
Prepared By: JG

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		51.4	µg/L	1	50.0	103	82.4 - 115
Toluene-d8		50.5	µg/L	1	50.0	101	89.7 - 108
4-Bromofluorobenzene (4-BFB)		44.6	µg/L	1	50.0	89	84.6 - 114

Method Blank (1) QC Batch: 35873

QC Batch: 35873
Prep Batch: 31131

Date Analyzed: 2007-03-24
QC Preparation: 2007-03-24

Analyzed By: JG
Prepared By: JG

Parameter	Flag	MDL Result	Units	RL
Bromochloromethane		<0.351	µg/L	1
Dichlorodifluoromethane		<0.306	µg/L	1
Chloromethane (methyl chloride)		<0.240	µg/L	1
Vinyl Chloride		<0.224	µg/L	1
Bromomethane (methyl bromide)		<0.325	µg/L	5
Chloroethane		<0.303	µg/L	1
Trichlorofluoromethane		<0.255	µg/L	1
Acetone		4.12	µg/L	10
Iodomethane (methyl iodide)		<0.397	µg/L	5
Carbon Disulfide		<0.354	µg/L	1
Acrylonitrile		<0.306	µg/L	1
2-Butanone (MEK)		<0.670	µg/L	5
4-Methyl-2-pentanone (MIBK)		<0.463	µg/L	5
2-Hexanone		<0.303	µg/L	5
trans 1,4-Dichloro-2-butene		<0.406	µg/L	10
1,1-Dichloroethene		<0.326	µg/L	1
Methylene chloride		3.23	µg/L	5
MTBE		<0.352	µg/L	1
trans-1,2-Dichloroethene		<0.322	µg/L	1
1,1-Dichloroethane		<0.324	µg/L	1
cis-1,2-Dichloroethene		<0.331	µg/L	1
2,2-Dichloropropane		<0.440	µg/L	1
1,2-Dichloroethane (EDC)		<0.327	µg/L	1

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
Chloroform		<0.345	µg/L	1
1,1,1-Trichloroethane		<0.303	µg/L	1
1,1-Dichloropropene		<0.356	µg/L	1
Benzene		<0.356	µg/L	1
Carbon Tetrachloride		<0.342	µg/L	1
1,2-Dichloropropane		<0.366	µg/L	1
Trichloroethene (TCE)		<0.434	µg/L	1
Dibromomethane (methylene bromide)		<0.406	µg/L	1
Bromodichloromethane		<0.325	µg/L	1
2-Chloroethyl vinyl ether		<0.366	µg/L	5
cis-1,3-Dichloropropene		<0.387	µg/L	1
trans-1,3-Dichloropropene		<0.367	µg/L	1
Toluene		<0.366	µg/L	1
1,1,2-Trichloroethane		<0.397	µg/L	1
1,3-Dichloropropane		<0.355	µg/L	1
Dibromochloromethane		<0.315	µg/L	1
1,2-Dibromoethane (EDB)		<0.340	µg/L	1
Tetrachloroethene (PCE)		<0.355	µg/L	1
Chlorobenzene		<0.363	µg/L	1
1,1,1,2-Tetrachloroethane		<0.338	µg/L	1
Ethylbenzene		<0.350	µg/L	1
m,p-Xylene		<0.752	µg/L	1
Bromoform		<0.275	µg/L	1
Styrene		<0.395	µg/L	1
o-Xylene		<0.375	µg/L	1
1,1,2,2-Tetrachloroethane		<0.283	µg/L	1
2-Chlorotoluene		<0.445	µg/L	1
1,2,3-Trichloropropane		<0.430	µg/L	1
Isopropylbenzene		<0.521	µg/L	1
Bromobenzene		<0.494	µg/L	1
n-Propylbenzene		<0.483	µg/L	1
1,3,5-Trimethylbenzene		<0.487	µg/L	1
tert-Butylbenzene		<0.496	µg/L	1
1,2,4-Trimethylbenzene		<0.532	µg/L	1
1,4-Dichlorobenzene (para)		<0.413	µg/L	1
sec-Butylbenzene		<0.449	µg/L	1
1,3-Dichlorobenzene (meta)		<0.451	µg/L	1
p-Isopropyltoluene		<0.450	µg/L	1
4-Chlorotoluene		<0.489	µg/L	1
1,2-Dichlorobenzene (ortho)		<0.438	µg/L	1
n-Butylbenzene		<0.461	µg/L	1
1,2-Dibromo-3-chloropropane		<0.532	µg/L	5
1,2,3-Trichlorobenzene		0.660	µg/L	5
1,2,4-Trichlorobenzene		<0.273	µg/L	5
Naphthalene		0.450	µg/L	5
Hexachlorobutadiene		0.520	µg/L	5

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		50.4	µg/L	1	50.0	101	82.4 - 115

continued ...

method blank continued ...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Toluene-d8		49.5	µg/L	1	50.0	99	89.7 - 108
4-Bromofluorobenzene (4-BFB)		44.3	µg/L	1	50.0	89	84.6 - 114

Laboratory Control Spike (LCS-1)

QC Batch: 35873
Prep Batch: 31131

Date Analyzed: 2007-03-24
QC Preparation: 2007-03-24

Analyzed By: JG
Prepared By: JG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Bromochloromethane	52.8	µg/L	1	50.0	<0.351	106	85.7 - 113
Dichlorodifluoromethane	38.2	µg/L	1	50.0	<0.306	76	60.3 - 134
Chloromethane (methyl chloride)	51.5	µg/L	1	50.0	<0.240	103	72 - 120
Vinyl Chloride	52.2	µg/L	1	50.0	<0.224	104	64.4 - 132
Bromomethane (methyl bromide)	58.4	µg/L	1	50.0	<0.325	117	65.9 - 133
Chloroethane	58.4	µg/L	1	50.0	<0.303	117	65.3 - 132
Trichlorofluoromethane	53.7	µg/L	1	50.0	<0.255	107	52.7 - 159
Acetone	51.4	µg/L	1	50.0	<1.86	103	10 - 185
Iodomethane (methyl iodide)	48.5	µg/L	1	50.0	<0.397	97	80.9 - 112
Carbon Disulfide	47.5	µg/L	1	50.0	<0.354	95	73.7 - 120
Acrylonitrile	56.8	µg/L	1	50.0	<0.306	114	75.8 - 121
2-Butanone (MEK)	45.9	µg/L	1	50.0	<0.670	92	43.7 - 117
4-Methyl-2-pentanone (MIBK)	53.7	µg/L	1	50.0	<0.463	107	69.3 - 120
2-Hexanone	58.6	µg/L	1	50.0	<0.303	117	35.6 - 138
trans 1,4-Dichloro-2-butene	42.1	µg/L	1	50.0	<0.407	84	40 - 128
1,1-Dichloroethene	46.2	µg/L	1	50.0	<0.326	92	83.4 - 114
Methylene chloride	51.9	µg/L	1	50.0	<0.375	104	62.6 - 119
MTBE	52.6	µg/L	1	50.0	<0.352	105	70 - 132
trans-1,2-Dichloroethene	50.5	µg/L	1	50.0	<0.322	101	83.3 - 114
1,1-Dichloroethane	50.2	µg/L	1	50.0	<0.324	100	87.8 - 113
cis-1,2-Dichloroethene	51.4	µg/L	1	50.0	<0.331	103	83.8 - 115
2,2-Dichloropropane	22.9	µg/L	1	50.0	<0.440	46	37.9 - 136
1,2-Dichloroethane (EDC)	51.5	µg/L	1	50.0	<0.327	103	82.6 - 122
Chloroform	51.1	µg/L	1	50.0	<0.345	102	84.8 - 116
1,1,1-Trichloroethane	49.5	µg/L	1	50.0	<0.303	99	72.9 - 123
1,1-Dichloropropene	49.6	µg/L	1	50.0	<0.356	99	85.9 - 119
Benzene	50.1	µg/L	1	50.0	<0.356	100	83.5 - 115
Carbon Tetrachloride	47.6	µg/L	1	50.0	<0.342	95	62.7 - 144
1,2-Dichloropropane	52.6	µg/L	1	50.0	<0.366	105	88.8 - 114
Trichloroethene (TCE)	46.8	µg/L	1	50.0	<0.434	94	91.3 - 111
Dibromomethane (methylene bromide)	51.9	µg/L	1	50.0	<0.406	104	84.2 - 118
Bromodichloromethane	52.5	µg/L	1	50.0	<0.325	105	79.5 - 127
2-Chloroethyl vinyl ether	52.6	µg/L	1	50.0	<0.366	105	75.1 - 128
cis-1,3-Dichloropropene	46.4	µg/L	1	50.0	<0.387	93	83.2 - 119
trans-1,3-Dichloropropene	49.9	µg/L	1	50.0	<0.367	100	77.4 - 126
Toluene	48.5	µg/L	1	50.0	<0.366	97	82 - 110
1,1,2-Trichloroethane	52.5	µg/L	1	50.0	<0.397	105	77 - 123
1,3-Dichloropropane	53.6	µg/L	1	50.0	<0.355	107	81.1 - 124

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Dibromochloromethane	54.4	µg/L	1	50.0	<0.315	109	79 - 129
1,2-Dibromoethane (EDB)	53.2	µg/L	1	50.0	<0.340	106	78.6 - 126
Tetrachloroethene (PCE)	53.6	µg/L	1	50.0	<0.355	107	36.7 - 173
Chlorobenzene	47.2	µg/L	1	50.0	<0.363	94	87.9 - 109
1,1,1,2-Tetrachloroethane	53.3	µg/L	1	50.0	<0.338	107	80.5 - 125
Ethylbenzene	52.4	µg/L	1	50.0	<0.350	105	82.4 - 116
m,p-Xylene	106	µg/L	1	100	<0.752	106	80 - 119
Bromoform	53.6	µg/L	1	50.0	<0.275	107	75.8 - 132
Styrene	55.8	µg/L	1	50.0	<0.395	112	84.2 - 117
o-Xylene	54.7	µg/L	1	50.0	<0.375	109	82.1 - 119
1,1,2,2-Tetrachloroethane	54.4	µg/L	1	50.0	<0.283	109	69.7 - 124
2-Chlorotoluene	50.5	µg/L	1	50.0	<0.445	101	76.5 - 123
1,2,3-Trichloropropane	48.3	µg/L	1	50.0	<0.430	97	66.3 - 130
Isopropylbenzene	50.0	µg/L	1	50.0	<0.521	100	78.3 - 123
Bromobenzene	48.8	µg/L	1	50.0	<0.494	98	79.9 - 122
n-Propylbenzene	48.9	µg/L	1	50.0	<0.483	98	72.6 - 122
1,3,5-Trimethylbenzene	50.1	µg/L	1	50.0	<0.487	100	69.6 - 127
tert-Butylbenzene	47.6	µg/L	1	50.0	<0.496	95	64 - 129
1,2,4-Trimethylbenzene	50.2	µg/L	1	50.0	<0.532	100	71 - 123
1,4-Dichlorobenzene (para)	47.0	µg/L	1	50.0	<0.413	94	74 - 118
sec-Butylbenzene	47.2	µg/L	1	50.0	<0.449	94	59.8 - 129
1,3-Dichlorobenzene (meta)	48.7	µg/L	1	50.0	<0.451	97	80.2 - 119
p-Isopropyltoluene	46.8	µg/L	1	50.0	<0.450	94	54.8 - 135
4-Chlorotoluene	49.8	µg/L	1	50.0	<0.489	100	78.9 - 124
1,2-Dichlorobenzene (ortho)	50.0	µg/L	1	50.0	<0.438	100	80 - 120
n-Butylbenzene	44.6	µg/L	1	50.0	<0.461	89	51.1 - 136
1,2-Dibromo-3-chloropropane	49.6	µg/L	1	50.0	<0.532	99	38.2 - 151
1,2,3-Trichlorobenzene	41.6	µg/L	1	50.0	<0.288	83	25.4 - 158
1,2,4-Trichlorobenzene	41.5	µg/L	1	50.0	<0.273	83	38.2 - 140
Naphthalene	46.0	µg/L	1	50.0	<0.299	92	33.3 - 152
Hexachlorobutadiene	37.1	µg/L	1	50.0	<0.483	74	49.1 - 134

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.	Rec. Limit	RPD	RPD Limit
Bromochloromethane	52.0	µg/L	1	50.0	<0.351	104	85.7 - 113	2	20
Dichlorodifluoromethane	38.3	µg/L	1	50.0	<0.306	77	60.3 - 134	0	20
Chloromethane (methyl chloride)	50.3	µg/L	1	50.0	<0.240	101	72 - 120	2	20
Vinyl Chloride	52.0	µg/L	1	50.0	<0.224	104	64.4 - 132	0	20
Bromomethane (methyl bromide)	55.8	µg/L	1	50.0	<0.325	112	65.9 - 133	5	20
Chloroethane	56.3	µg/L	1	50.0	<0.303	113	65.3 - 132	4	20
Trichlorofluoromethane	51.2	µg/L	1	50.0	<0.255	102	52.7 - 159	5	20
Acetone	53.0	µg/L	1	50.0	<1.86	106	10 - 185	3	20
Iodomethane (methyl iodide)	49.2	µg/L	1	50.0	<0.397	98	80.9 - 112	1	20
Carbon Disulfide	47.8	µg/L	1	50.0	<0.354	96	73.7 - 120	1	20
Acrylonitrile	57.0	µg/L	1	50.0	<0.306	114	75.8 - 121	0	20
2-Butanone (MEK)	48.0	µg/L	1	50.0	<0.670	96	43.7 - 117	4	20
4-Methyl-2-pentanone (MIBK)	57.4	µg/L	1	50.0	<0.463	115	69.3 - 120	7	20
2-Hexanone	60.0	µg/L	1	50.0	<0.303	120	35.6 - 138	2	20
trans 1,4-Dichloro-2-butene	42.4	µg/L	1	50.0	<0.407	85	40 - 128	1	20

continued ...

control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
1,1-Dichloroethene	46.9	µg/L	1	50.0	<0.326	94	83.4 - 114	2	20
Methylene chloride	51.6	µg/L	1	50.0	<0.375	103	62.6 - 119	1	20
MTBE	53.2	µg/L	1	50.0	<0.352	106	70 - 132	1	20
trans-1,2-Dichloroethene	50.5	µg/L	1	50.0	<0.322	101	83.3 - 114	0	20
1,1-Dichloroethane	49.8	µg/L	1	50.0	<0.324	100	87.8 - 113	1	20
cis-1,2-Dichloroethene	51.0	µg/L	1	50.0	<0.331	102	83.8 - 115	1	20
2,2-Dichloropropane	22.9	µg/L	1	50.0	<0.440	46	37.9 - 136	0	20
1,2-Dichloroethane (EDC)	50.6	µg/L	1	50.0	<0.327	101	82.6 - 122	2	20
Chloroform	50.2	µg/L	1	50.0	<0.345	100	84.8 - 116	2	20
1,1,1-Trichloroethane	49.3	µg/L	1	50.0	<0.303	99	72.9 - 123	0	20
1,1-Dichloropropene	50.3	µg/L	1	50.0	<0.356	101	85.9 - 119	1	20
Benzene	50.2	µg/L	1	50.0	<0.356	100	83.5 - 115	0	20
Carbon Tetrachloride	48.0	µg/L	1	50.0	<0.342	96	62.7 - 144	1	20
1,2-Dichloropropane	52.9	µg/L	1	50.0	<0.366	106	88.8 - 114	1	20
Trichloroethene (TCE)	47.3	µg/L	1	50.0	<0.434	95	91.3 - 111	1	20
Dibromomethane (methylene bromide)	51.3	µg/L	1	50.0	<0.406	103	84.2 - 118	1	20
Bromodichloromethane	52.5	µg/L	1	50.0	<0.325	105	79.5 - 127	0	20
2-Chloroethyl vinyl ether	52.9	µg/L	1	50.0	<0.366	106	75.1 - 128	1	20
cis-1,3-Dichloropropene	47.1	µg/L	1	50.0	<0.387	94	83.2 - 119	2	20
trans-1,3-Dichloropropene	50.0	µg/L	1	50.0	<0.367	100	77.4 - 126	0	20
Toluene	48.4	µg/L	1	50.0	<0.366	97	82 - 110	0	20
1,1,2-Trichloroethane	53.0	µg/L	1	50.0	<0.397	106	77 - 123	1	20
1,3-Dichloropropane	53.8	µg/L	1	50.0	<0.355	108	81.1 - 124	0	20
Dibromochloromethane	53.7	µg/L	1	50.0	<0.315	107	79 - 129	1	20
1,2-Dibromoethane (EDB)	53.3	µg/L	1	50.0	<0.340	107	78.6 - 126	0	20
Tetrachloroethene (PCE)	55.6	µg/L	1	50.0	<0.355	111	36.7 - 173	4	20
Chlorobenzene	47.7	µg/L	1	50.0	<0.363	95	87.9 - 109	1	20
1,1,1,2-Tetrachloroethane	52.5	µg/L	1	50.0	<0.338	105	80.5 - 125	2	20
Ethylbenzene	53.1	µg/L	1	50.0	<0.350	106	82.4 - 116	1	20
m,p-Xylene	106	µg/L	1	100	<0.752	106	80 - 119	0	20
Bromoform	53.5	µg/L	1	50.0	<0.275	107	75.8 - 132	0	20
Styrene	55.6	µg/L	1	50.0	<0.395	111	84.2 - 117	0	20
o-Xylene	54.6	µg/L	1	50.0	<0.375	109	82.1 - 119	0	20
1,1,2,2-Tetrachloroethane	55.2	µg/L	1	50.0	<0.283	110	69.7 - 124	1	20
2-Chlorotoluene	51.4	µg/L	1	50.0	<0.445	103	76.5 - 123	2	20
1,2,3-Trichloropropane	50.1	µg/L	1	50.0	<0.430	100	66.3 - 130	4	20
Isopropylbenzene	51.8	µg/L	1	50.0	<0.521	104	78.3 - 123	4	20
Bromobenzene	50.4	µg/L	1	50.0	<0.494	101	79.9 - 122	3	20
n-Propylbenzene	50.4	µg/L	1	50.0	<0.483	101	72.6 - 122	3	20
1,3,5-Trimethylbenzene	51.2	µg/L	1	50.0	<0.487	102	69.6 - 127	2	20
tert-Butylbenzene	49.6	µg/L	1	50.0	<0.496	99	64 - 129	4	20
1,2,4-Trimethylbenzene	51.6	µg/L	1	50.0	<0.532	103	71 - 123	3	20
1,4-Dichlorobenzene (para)	48.1	µg/L	1	50.0	<0.413	96	74 - 118	2	20
sec-Butylbenzene	48.6	µg/L	1	50.0	<0.449	97	59.8 - 129	3	20
1,3-Dichlorobenzene (meta)	49.6	µg/L	1	50.0	<0.451	99	80.2 - 119	2	20
p-Isopropyltoluene	48.6	µg/L	1	50.0	<0.450	97	54.8 - 135	4	20
4-Chlorotoluene	50.8	µg/L	1	50.0	<0.489	102	78.9 - 124	2	20
1,2-Dichlorobenzene (ortho)	50.9	µg/L	1	50.0	<0.438	102	80 - 120	2	20
n-Butylbenzene	45.9	µg/L	1	50.0	<0.461	92	51.1 - 136	3	20
1,2-Dibromo-3-chloropropane	51.8	µg/L	1	50.0	<0.532	104	38.2 - 151	4	20

continued ...

control spikes continued ...

Param	LCS Result	LCS Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
1,2,3-Trichlorobenzene	50.7	µg/L	1	50.0	<0.288	101	25.4 - 158	20	20
1,2,4-Trichlorobenzene	45.2	µg/L	1	50.0	<0.273	90	38.2 - 140	8	20
Naphthalene	53.4	µg/L	1	50.0	<0.299	107	33.3 - 152	15	20
Hexachlorobutadiene	39.5	µg/L	1	50.0	<0.483	79	49.1 - 134	6	20

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

Surrogate	LCS Result	LCS Result	Units	Dil.	Spike Amount	LCS Rec.	LCS Rec.	Rec. Limit
Dibromofluoromethane	50.1	49.4	µg/L	1	50.0	100	99	82.4 - 115
Toluene-d8	48.8	48.8	µg/L	1	50.0	98	98	89.7 - 108
4-Bromofluorobenzene (4-BFB)	48.7	47.8	µg/L	1	50.0	97	96	84.6 - 114

Matrix Spike (MS-1) Spiked Sample: 119498

QC Batch: 35873
Prep Batch: 31131

Date Analyzed: 2007-03-24
QC Preparation: 2007-03-24

Analyzed By: JG
Prepared By: JG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Bromochloromethane	51.8	µg/L	1	50.0	<0.0699	104	82.5 - 118
Dichlorodifluoromethane	42.6	µg/L	1	50.0	<0.0598	85	46.8 - 125
Chloromethane (methyl chloride)	50.1	µg/L	1	50.0	<0.230	100	67.1 - 127
Vinyl Chloride	50.6	µg/L	1	50.0	<0.0902	101	63.7 - 129
Bromomethane (methyl bromide)	51.5	µg/L	1	50.0	<0.740	103	65.7 - 127
Chloroethane	53.8	µg/L	1	50.0	<0.195	108	69.9 - 131
Trichlorofluoromethane	54.4	µg/L	1	50.0	<0.160	109	60.2 - 134
Acetone	46.8	µg/L	1	50.0	<0.854	94	12.1 - 136
Iodomethane (methyl iodide)	49.4	µg/L	1	50.0	<0.112	99	75.7 - 115
Carbon Disulfide	48.3	µg/L	1	50.0	<0.0764	97	67.6 - 131
Acrylonitrile	58.5	µg/L	1	50.0	<0.184	117	79.9 - 131
2-Butanone (MEK)	48.4	µg/L	1	50.0	<0.394	97	28.7 - 137
4-Methyl-2-pentanone (MIBK)	57.9	µg/L	1	50.0	<0.484	116	77.1 - 122
2-Hexanone	60.8	µg/L	1	50.0	<0.0975	122	42.3 - 145
trans 1,4-Dichloro-2-butene	41.0	µg/L	1	50.0	<0.421	82	38.5 - 122
1,1-Dichloroethene	47.3	µg/L	1	50.0	<0.0736	95	78.7 - 119
Methylene chloride	47.8	µg/L	1	50.0	<0.689	96	64.9 - 121
MTBE	53.7	µg/L	1	50.0	<0.0504	107	46.6 - 162
trans-1,2-Dichloroethene	50.6	µg/L	1	50.0	<0.0598	101	75.1 - 119
1,1-Dichloroethane	50.5	µg/L	1	50.0	<0.0299	101	86.3 - 119
cis-1,2-Dichloroethene	51.1	µg/L	1	50.0	<0.101	102	82.6 - 116
2,2-Dichloropropane	22.0	µg/L	1	50.0	<0.0665	44	7.8 - 109
1,2-Dichloroethane (EDC)	50.8	µg/L	1	50.0	<0.0557	102	82.7 - 130
Chloroform	49.9	µg/L	1	50.0	<0.0475	100	83.6 - 119
1,1,1-Trichloroethane	49.9	µg/L	1	50.0	<0.0846	100	69.6 - 126
1,1-Dichloropropene	50.2	µg/L	1	50.0	<0.0423	100	79.2 - 121
Benzene	49.6	µg/L	1	50.0	<0.0495	99	75.8 - 125
Carbon Tetrachloride	48.2	µg/L	1	50.0	<0.121	96	58.7 - 143
1,2-Dichloropropane	52.6	µg/L	1	50.0	<0.0933	105	88.4 - 117
Trichloroethene (TCE)	46.5	µg/L	1	50.0	<0.0495	93	83.6 - 112

continued ...

matrix spikes continued ...

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dibromomethane (methylene bromide)	51.1	µg/L	1	50.0	<0.0640	102	90.7 - 117
Bromodichloromethane	51.4	µg/L	1	50.0	<0.0651	103	83.4 - 127
2-Chloroethyl vinyl ether	52.6	µg/L	1	50.0	<0.0905	105	10 - 211
cis-1,3-Dichloropropene	46.0	µg/L	1	50.0	<0.0640	92	78.6 - 113
trans-1,3-Dichloropropene	48.3	µg/L	1	50.0	<0.0504	97	81.8 - 113
Toluene	47.9	µg/L	1	50.0	<0.0736	96	81.6 - 115
1,1,2-Trichloroethane	52.4	µg/L	1	50.0	<0.106	105	83.2 - 122
1,3-Dichloropropane	53.6	µg/L	1	50.0	<0.0625	107	87.3 - 123
Dibromochloromethane	53.9	µg/L	1	50.0	<0.0791	108	81.4 - 130
1,2-Dibromoethane (EDB)	53.9	µg/L	1	50.0	<0.0460	108	91.4 - 118
Tetrachloroethene (PCE)	44.7	µg/L	1	50.0	<0.0696	89	51.8 - 111
Chlorobenzene	47.1	µg/L	1	50.0	<0.0217	94	83.9 - 113
1,1,1,2-Tetrachloroethane	52.5	µg/L	1	50.0	<0.125	105	79.5 - 127
Ethylbenzene	52.0	µg/L	1	50.0	<0.0566	104	75.4 - 121
m,p-Xylene	105	µg/L	1	100	<0.0363	105	74 - 124
Bromoform	51.7	µg/L	1	50.0	<0.0859	103	77.5 - 134
Styrene	2.06	µg/L	1	50.0	<0.0394	4	10 - 180
o-Xylene	52.1	µg/L	1	50.0	<0.0504	104	75.4 - 126
1,1,2,2-Tetrachloroethane	54.5	µg/L	1	50.0	<0.0672	109	86.4 - 122
2-Chlorotoluene	50.8	µg/L	1	50.0	<0.0283	102	69.2 - 128
1,2,3-Trichloropropane	50.3	µg/L	1	50.0	<0.0679	101	75.8 - 121
Isopropylbenzene	50.9	µg/L	1	50.0	<0.0406	102	69.6 - 127
Bromobenzene	50.0	µg/L	1	50.0	<0.103	100	77.1 - 125
n-Propylbenzene	49.4	µg/L	1	50.0	<0.0423	99	67.1 - 125
1,3,5-Trimethylbenzene	50.3	µg/L	1	50.0	<0.0557	101	66.1 - 126
tert-Butylbenzene	48.2	µg/L	1	50.0	<0.0770	96	63.9 - 126
1,2,4-Trimethylbenzene	48.9	µg/L	1	50.0	<0.0336	98	65 - 123
1,4-Dichlorobenzene (para)	47.2	µg/L	1	50.0	<0.0672	94	66.7 - 119
sec-Butylbenzene	47.4	µg/L	1	50.0	<0.0439	95	57.6 - 127
1,3-Dichlorobenzene (meta)	48.4	µg/L	1	50.0	<0.0672	97	78.8 - 118
p-Isopropyltoluene	47.0	µg/L	1	50.0	<0.0513	94	56.6 - 128
4-Chlorotoluene	50.3	µg/L	1	50.0	<0.0460	101	74 - 127
1,2-Dichlorobenzene (ortho)	50.5	µg/L	1	50.0	<0.0629	101	81.2 - 119
n-Butylbenzene	44.9	µg/L	1	50.0	<0.0400	90	50.4 - 130
1,2-Dibromo-3-chloropropane	53.4	µg/L	1	50.0	<0.538	107	55.7 - 152
1,2,3-Trichlorobenzene	50.4	µg/L	1	50.0	<0.504	101	32.6 - 149
1,2,4-Trichlorobenzene	44.3	µg/L	1	50.0	<0.166	89	35.8 - 144
Naphthalene	54.6	µg/L	1	50.0	<0.417	109	36.7 - 156
Hexachlorobutadiene	40.6	µg/L	1	50.0	<0.176	81	39.6 - 125

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
Bromochloromethane	51.6	µg/L	1	50.0	<0.0699	103	82.5 - 118	0	20
Dichlorodifluoromethane	40.1	µg/L	1	50.0	<0.0598	80	46.8 - 125	6	20
Chloromethane (methyl chloride)	49.4	µg/L	1	50.0	<0.230	99	67.1 - 127	1	20
Vinyl Chloride	49.8	µg/L	1	50.0	<0.0902	100	63.7 - 129	2	20
Bromomethane (methyl bromide)	51.8	µg/L	1	50.0	<0.740	104	65.7 - 127	1	20
Chloroethane	53.7	µg/L	1	50.0	<0.195	107	69.9 - 131	0	20

continued ...

¹MS recovery out of control limits. LCS/LCSD show analysis to be in control. •

matrix spikes continued ...

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Trichlorofluoromethane	53.3	µg/L	1	50.0	<0.160	107	60.2 - 134	2	20
Acetone	46.2	µg/L	1	50.0	<0.854	92	12.1 - 136	1	20
Iodomethane (methyl iodide)	48.4	µg/L	1	50.0	<0.112	97	75.7 - 115	2	20
Carbon Disulfide	47.0	µg/L	1	50.0	<0.0764	94	67.6 - 131	3	20
Acrylonitrile	58.3	µg/L	1	50.0	<0.184	117	79.9 - 131	0	20
2-Butanone (MEK)	47.0	µg/L	1	50.0	<0.394	94	28.7 - 137	3	20
4-Methyl-2-pentanone (MIBK)	56.6	µg/L	1	50.0	<0.484	113	77.1 - 122	2	20
2-Hexanone	59.5	µg/L	1	50.0	<0.0975	119	42.3 - 145	2	20
trans 1,4-Dichloro-2-butene	40.6	µg/L	1	50.0	<0.421	81	38.5 - 122	1	20
1,1-Dichloroethene	46.8	µg/L	1	50.0	<0.0736	94	78.7 - 119	1	20
Methylene chloride	47.6	µg/L	1	50.0	<0.689	95	64.9 - 121	0	20
MTBE	53.6	µg/L	1	50.0	<0.0504	107	46.6 - 162	0	20
trans-1,2-Dichloroethene	49.6	µg/L	1	50.0	<0.0598	99	75.1 - 119	2	20
1,1-Dichloroethane	49.8	µg/L	1	50.0	<0.0299	100	86.3 - 119	1	20
cis-1,2-Dichloroethene	50.8	µg/L	1	50.0	<0.101	102	82.6 - 116	1	20
2,2-Dichloropropane	21.3	µg/L	1	50.0	<0.0665	43	7.8 - 109	3	20
1,2-Dichloroethane (EDC)	50.2	µg/L	1	50.0	<0.0557	100	82.7 - 130	1	20
Chloroform	49.7	µg/L	1	50.0	<0.0475	99	83.6 - 119	0	20
1,1,1-Trichloroethane	49.4	µg/L	1	50.0	<0.0846	99	69.6 - 126	1	20
1,1-Dichloropropene	50.6	µg/L	1	50.0	<0.0423	101	79.2 - 121	1	20
Benzene	49.8	µg/L	1	50.0	<0.0495	100	75.8 - 125	0	20
Carbon Tetrachloride	48.1	µg/L	1	50.0	<0.121	96	58.7 - 143	0	20
1,2-Dichloropropane	52.5	µg/L	1	50.0	<0.0933	105	88.4 - 117	0	20
Trichloroethene (TCE)	46.2	µg/L	1	50.0	<0.0495	92	83.6 - 112	1	20
Dibromomethane (methylene bromide)	51.1	µg/L	1	50.0	<0.0640	102	90.7 - 117	0	20
Bromodichloromethane	51.8	µg/L	1	50.0	<0.0651	104	83.4 - 127	1	20
2-Chloroethyl vinyl ether	52.5	µg/L	1	50.0	<0.0905	105	10 - 211	0	20
cis-1,3-Dichloropropene	46.0	µg/L	1	50.0	<0.0640	92	78.6 - 113	0	20
trans-1,3-Dichloropropene	48.5	µg/L	1	50.0	<0.0504	97	81.8 - 113	0	20
Toluene	47.9	µg/L	1	50.0	<0.0736	96	81.6 - 115	0	20
1,1,2-Trichloroethane	52.8	µg/L	1	50.0	<0.106	106	83.2 - 122	1	20
1,3-Dichloropropane	53.8	µg/L	1	50.0	<0.0625	108	87.3 - 123	0	20
Dibromochloromethane	54.7	µg/L	1	50.0	<0.0791	109	81.4 - 130	2	20
1,2-Dibromoethane (EDB)	54.4	µg/L	1	50.0	<0.0460	109	91.4 - 118	1	20
Tetrachloroethene (PCE)	44.6	µg/L	1	50.0	<0.0696	89	51.8 - 111	0	20
Chlorobenzene	47.1	µg/L	1	50.0	<0.0217	94	83.9 - 113	0	20
1,1,1,2-Tetrachloroethane	52.6	µg/L	1	50.0	<0.125	105	79.5 - 127	0	20
Ethylbenzene	52.2	µg/L	1	50.0	<0.0566	104	75.4 - 121	0	20
m,p-Xylene	105	µg/L	1	100	<0.0363	105	74 - 124	0	20
Bromoform	53.0	µg/L	1	50.0	<0.0859	106	77.5 - 134	2	20
Styrene	1.65	µg/L	1	50.0	<0.0394	3	10 - 180	22	20
o-Xylene	52.6	µg/L	1	50.0	<0.0504	105	75.4 - 126	1	20
1,1,2,2-Tetrachloroethane	55.1	µg/L	1	50.0	<0.0672	110	86.4 - 122	1	20
2-Chlorotoluene	51.0	µg/L	1	50.0	<0.0283	102	69.2 - 128	0	20
1,2,3-Trichloropropane	51.0	µg/L	1	50.0	<0.0679	102	75.8 - 121	1	20
Isopropylbenzene	51.0	µg/L	1	50.0	<0.0406	102	69.6 - 127	0	20
Bromobenzene	50.2	µg/L	1	50.0	<0.103	100	77.1 - 125	0	20
n-Propylbenzene	48.6	µg/L	1	50.0	<0.0423	97	67.1 - 125	2	20
1,3,5-Trimethylbenzene	49.7	µg/L	1	50.0	<0.0557	99	66.1 - 126	1	20

continued ...

²MS recovery out of control limits. LCS/LCSD show analysis to be in control. •

matrix spikes continued ...

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
tert-Butylbenzene	47.9	µg/L	1	50.0	<0.0770	96	63.9 - 126	1	20
1,2,4-Trimethylbenzene	48.3	µg/L	1	50.0	<0.0336	97	65 - 123	1	20
1,4-Dichlorobenzene (para)	46.7	µg/L	1	50.0	<0.0672	93	66.7 - 119	1	20
sec-Butylbenzene	46.5	µg/L	1	50.0	<0.0439	93	57.6 - 127	2	20
1,3-Dichlorobenzene (meta)	48.6	µg/L	1	50.0	<0.0672	97	78.8 - 118	0	20
p-Isopropyltoluene	46.1	µg/L	1	50.0	<0.0513	92	56.6 - 128	2	20
4-Chlorotoluene	50.0	µg/L	1	50.0	<0.0460	100	74 - 127	1	20
1,2-Dichlorobenzene (ortho)	49.8	µg/L	1	50.0	<0.0629	100	81.2 - 119	1	20
n-Butylbenzene	43.9	µg/L	1	50.0	<0.0400	88	50.4 - 130	2	20
1,2-Dibromo-3-chloropropane	54.0	µg/L	1	50.0	<0.538	108	55.7 - 152	1	20
1,2,3-Trichlorobenzene	48.8	µg/L	1	50.0	<0.504	98	32.6 - 149	3	20
1,2,4-Trichlorobenzene	42.6	µg/L	1	50.0	<0.166	85	35.8 - 144	4	20
Naphthalene	54.1	µg/L	1	50.0	<0.417	108	36.7 - 156	1	20
Hexachlorobutadiene	40.3	µg/L	1	50.0	<0.176	81	39.6 - 125	1	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
Dibromofluoromethane	49.5	49.0	µg/L	1	50	99	98	86.6 - 114
Toluene-d8	48.6	48.9	µg/L	1	50	97	98	91 - 109
4-Bromofluorobenzene (4-BFB)	46.9	47.6	µg/L	1	50	94	95	87.2 - 113

Standard (CCV-1)

QC Batch: 35873

Date Analyzed: 2007-03-24

Analyzed By: JG

Param	Flag	Units	CCV's True Conc.	CCV's Found Conc.	CCV's Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromochloromethane		µg/L	50.0	53.0	106	70 - 130	2007-03-24
Dichlorodifluoromethane		µg/L	50.0	46.5	93	70 - 130	2007-03-24
Chloromethane (methyl chloride)		µg/L	50.0	51.5	103	70 - 130	2007-03-24
Vinyl Chloride		µg/L	50.0	52.1	104	80 - 120	2007-03-24
Bromomethane (methyl bromide)		µg/L	50.0	58.0	116	70 - 130	2007-03-24
Chloroethane		µg/L	50.0	56.0	112	70 - 130	2007-03-24
Trichlorofluoromethane		µg/L	50.0	58.3	117	70 - 130	2007-03-24
Acetone	3	µg/L	50.0	75.4	151	70 - 130	2007-03-24
Iodomethane (methyl iodide)		µg/L	50.0	50.3	101	70 - 130	2007-03-24
Carbon Disulfide		µg/L	50.0	50.8	102	70 - 130	2007-03-24
Acrylonitrile		µg/L	50.0	57.5	115	70 - 130	2007-03-24
2-Butanone (MEK)	4	µg/L	50.0	66.8	134	70 - 130	2007-03-24
4-Methyl-2-pentanone (MIBK)		µg/L	50.0	56.6	113	70 - 130	2007-03-24
2-Hexanone	5	µg/L	50.0	74.1	148	70 - 130	2007-03-24
trans 1,4-Dichloro-2-butene		µg/L	50.0	56.7	113	70 - 130	2007-03-24

continued ...

³Acetone outside of control limits on CCV(ICV). CCV(ICV) component average is 108 which is within acceptable range. This is acceptable by Method 8000.

⁴2-Butanone outside of control limits on CCV(ICV). CCV(ICV) component average is 108 which is within acceptable range. This is acceptable by Method 8000.

⁵2-Hexanone outside of control limits on CCV(ICV). CCV(ICV) component average is 108 which is within acceptable range. This is acceptable by Method 8000.

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
1,1-Dichloroethene		µg/L	50.0	48.7	97	80 - 120	2007-03-24
Methylene chloride		µg/L	50.0	51.8	104	70 - 130	2007-03-24
MTBE		µg/L	50.0	54.0	108	70 - 130	2007-03-24
trans-1,2-Dichloroethene		µg/L	50.0	52.0	104	70 - 130	2007-03-24
1,1-Dichloroethane		µg/L	50.0	51.0	102	70 - 130	2007-03-24
cis-1,2-Dichloroethene		µg/L	50.0	52.4	105	70 - 130	2007-03-24
2,2-Dichloropropane		µg/L	50.0	51.7	103	70 - 130	2007-03-24
1,2-Dichloroethane (EDC)		µg/L	50.0	51.2	102	70 - 130	2007-03-24
Chloroform		µg/L	50.0	50.9	102	80 - 120	2007-03-24
1,1,1-Trichloroethane		µg/L	50.0	50.9	102	70 - 130	2007-03-24
1,1-Dichloropropene		µg/L	50.0	52.3	105	70 - 130	2007-03-24
Benzene		µg/L	50.0	51.0	102	70 - 130	2007-03-24
Carbon Tetrachloride		µg/L	50.0	49.5	99	70 - 130	2007-03-24
1,2-Dichloropropane		µg/L	50.0	53.2	106	80 - 120	2007-03-24
Trichloroethene (TCE)		µg/L	50.0	48.6	97	70 - 130	2007-03-24
Dibromomethane (methylene bromide)		µg/L	50.0	52.3	105	70 - 130	2007-03-24
Bromodichloromethane		µg/L	50.0	52.9	106	70 - 130	2007-03-24
2-Chloroethyl vinyl ether		µg/L	50.0	53.2	106	70 - 130	2007-03-24
cis-1,3-Dichloropropene		µg/L	50.0	54.4	109	70 - 130	2007-03-24
trans-1,3-Dichloropropene		µg/L	50.0	57.7	115	70 - 130	2007-03-24
Toluene		µg/L	50.0	49.7	99	80 - 120	2007-03-24
1,1,2-Trichloroethane		µg/L	50.0	53.4	107	70 - 130	2007-03-24
1,3-Dichloropropane		µg/L	50.0	53.9	108	70 - 130	2007-03-24
Dibromochloromethane		µg/L	50.0	55.0	110	70 - 130	2007-03-24
1,2-Dibromoethane (EDB)		µg/L	50.0	54.5	109	70 - 130	2007-03-24
Tetrachloroethene (PCE)		µg/L	50.0	48.5	97	70 - 130	2007-03-24
Chlorobenzene		µg/L	50.0	48.2	96	80 - 120	2007-03-24
1,1,1,2-Tetrachloroethane		µg/L	50.0	53.5	107	70 - 130	2007-03-24
Ethylbenzene		µg/L	50.0	54.3	109	80 - 120	2007-03-24
m,p-Xylene		µg/L	100	109	109	70 - 130	2007-03-24
Bromoform		µg/L	50.0	54.8	110	70 - 130	2007-03-24
Styrene		µg/L	50.0	57.8	116	70 - 130	2007-03-24
o-Xylene		µg/L	50.0	56.1	112	70 - 130	2007-03-24
1,1,2,2-Tetrachloroethane		µg/L	50.0	54.9	110	70 - 130	2007-03-24
2-Chlorotoluene		µg/L	50.0	53.0	106	70 - 130	2007-03-24
1,2,3-Trichloropropane		µg/L	50.0	53.9	108	70 - 130	2007-03-24
Isopropylbenzene		µg/L	50.0	53.7	107	70 - 130	2007-03-24
Bromobenzene		µg/L	50.0	51.8	104	70 - 130	2007-03-24
n-Propylbenzene		µg/L	50.0	52.5	105	70 - 130	2007-03-24
1,3,5-Trimethylbenzene		µg/L	50.0	52.9	106	70 - 130	2007-03-24
tert-Butylbenzene		µg/L	50.0	50.7	101	70 - 130	2007-03-24
1,2,4-Trimethylbenzene		µg/L	50.0	53.0	106	70 - 130	2007-03-24
1,4-Dichlorobenzene (para)		µg/L	50.0	49.6	99	70 - 130	2007-03-24
sec-Butylbenzene		µg/L	50.0	51.1	102	70 - 130	2007-03-24
1,3-Dichlorobenzene (meta)		µg/L	50.0	51.1	102	70 - 130	2007-03-24
p-Isopropyltoluene		µg/L	50.0	51.4	103	70 - 130	2007-03-24
4-Chlorotoluene		µg/L	50.0	52.4	105	70 - 130	2007-03-24
1,2-Dichlorobenzene (ortho)		µg/L	50.0	51.7	103	70 - 130	2007-03-24
n-Butylbenzene		µg/L	50.0	50.7	101	70 - 130	2007-03-24

continued ...

standard continued . . .

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
1,2-Dibromo-3-chloropropane		µg/L	50.0	51.8	104	70 - 130	2007-03-24
1,2,3-Trichlorobenzene		µg/L	50.0	48.4	97	70 - 130	2007-03-24
1,2,4-Trichlorobenzene		µg/L	50.0	47.9	96	70 - 130	2007-03-24
Naphthalene		µg/L	50.0	50.8	102	70 - 130	2007-03-24
Hexachlorobutadiene		µg/L	50.0	44.7	89	70 - 130	2007-03-24

APPENDIX II

Laboratory Results
2nd Quarter 2007

TNM 97-23

April 2008

Plains Marketing, L.P.
Houston, Texas

Prepared by:
BBC International, Inc.

Report Date: July 3, 2007
TNM 97-23

Work Order: 7062911
Plains TNM 97-23

Page Number: 1 of 1
Eunice NM

Summary Report

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

Report Date: July 3, 2007

Work Order: 7062911



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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
128812	MW #4	water	2007-06-27	14:50	2007-06-29

Sample - Field Code	BTEX				MTBE
	Benzene	Toluene	Ethylbenzene	Xylene	MTBE
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
128812 - MW #4	0.0240	<0.00100	0.00360	0.00440	

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 806•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

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

Report Date: July 3, 2007

Work Order: 7062911



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
128812	MW #4	water	2007-06-27	14:50	2007-06-29

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 4 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.

Case Narrative

Samples for project Plains TNM 97-23 were received by TraceAnalysis, Inc. on 2007-06-29 and assigned to work order 7062911. Samples for work order 7062911 were received intact without headspace and at a temperature of 4.0 deg.C.

Samples were analyzed for the following tests using their respective methods.

Test	Method
BTEX	S 8021E

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 7062911 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 128812 - MW #4

Analysis: BTEX
QC Batch: 38699
Prep Batch: 33499

Analytical Method: S 8021B
Date Analyzed: 2007-07-02
Sample Preparation: 2007-07-02

Prep Method: S 5030B
Analyzed By: KB
Prepared By: KB

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		0.0240	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		0.00360	mg/L	1	0.00100
Xylene	E	0.00440	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0970	mg/L	1	0.100	97	78.1 - 112
4-Bromofluorobenzene (4-BFB)	¹	0.150	mg/L	1	0.100	150	63.1 - 120

Method Blank (1) QC Batch: 38699

QC Batch: 38699
Prep Batch: 33499

Date Analyzed: 2007-07-02
QC Preparation: 2007-07-02

Analyzed By: KB
Prepared By: KB

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000247	mg/L	0.001
Toluene		<0.000257	mg/L	0.001
Ethylbenzene		<0.000336	mg/L	0.001
Xylene		0.000500	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.112	mg/L	1	0.100	112	77.3 - 113
4-Bromofluorobenzene (4-BFB)		0.103	mg/L	1	0.100	103	77.2 - 116

Laboratory Control Spike (LCS-1)

QC Batch: 38699
Prep Batch: 33499

Date Analyzed: 2007-07-02
QC Preparation: 2007-07-02

Analyzed By: KB
Prepared By: KB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.108	mg/L	1	0.100	<0.000247	108	82 - 118
Toluene	0.107	mg/L	1	0.100	<0.000257	107	81.4 - 118
Ethylbenzene	0.106	mg/L	1	0.100	<0.000336	106	81.5 - 120
Xylene	0.312	mg/L	1	0.300	<0.000218	104	82.2 - 121

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

¹ High surrogate recovery due to peak interference.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.102	mg/L	1	0.100	<0.000247	102	82 - 118	6	20
Toluene	0.102	mg/L	1	0.100	<0.000257	102	81.4 - 118	5	20
Ethylbenzene	0.102	mg/L	1	0.100	<0.000336	102	81.5 - 120	4	20
Xylene	0.304	mg/L	1	0.300	<0.000218	101	82.2 - 121	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)	0.113	0.0953	mg/L	1	0.100	113	95	75.7 - 113
4-Bromofluorobenzene (4-BFB)	0.0978	0.0967	mg/L	1	0.100	98	97	75.8 - 110

Matrix Spike (MS-1) Spiked Sample: 128925

QC Batch: 38699
Prep Batch: 33499

Date Analyzed: 2007-07-02
QC Preparation: 2007-07-02

Analyzed By: KB
Prepared By: KB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.142	mg/L	1	0.100	0.037	105	78.2 - 121
Toluene	0.123	mg/L	1	0.100	0.0248	98	73.7 - 122
Ethylbenzene	0.101	mg/L	1	0.100	0.0101	91	72.6 - 123
Xylene	0.312	mg/L	1	0.300	0.0418	90	76.4 - 121

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	0.132	mg/L	1	0.100	0.037	95	78.2 - 121	7	20
Toluene	0.115	mg/L	1	0.100	0.0248	90	73.7 - 122	7	20
Ethylbenzene	0.0952	mg/L	1	0.100	0.0101	85	72.6 - 123	6	20
Xylene	0.295	mg/L	1	0.300	0.0418	84	76.4 - 121	6	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)	0.0990	0.0891	mg/L	1	0.1	99	89	78.9 - 116
4-Bromofluorobenzene (4-BFB)	0.101	0.101	mg/L	1	0.1	101	101	67.9 - 122

Standard (ICV-1)

QC Batch: 38699

Date Analyzed: 2007-07-02

Analyzed By: KB

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.101	101	85 - 115	2007-07-02
Toluene		mg/L	0.100	0.102	102	85 - 115	2007-07-02
Ethylbenzene		mg/L	0.100	0.102	102	85 - 115	2007-07-02
Xylene		mg/L	0.300	0.302	101	85 - 115	2007-07-02

Standard (CCV-1)

QC Batch: 38699

Date Analyzed: 2007-07-02

Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.106	106	85 - 115	2007-07-02
Toluene		mg/L	0.100	0.105	105	85 - 115	2007-07-02
Ethylbenzene		mg/L	0.100	0.103	103	85 - 115	2007-07-02
Xylene		mg/L	0.300	0.305	102	85 - 115	2007-07-02

Radio Analysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (928) 588-3143

015 Harris Pkwy., Suite 110
Ft. Worth, Texas 76132
Tel (817) 201-5260

Country Music J

BBC International

Phone #: 397 6388 (505)

Address: (Street, City, Zip)

Fax #: (505) 307-0391

Contact Person: A. J. ...

File-11

Abstract:

(If different from above)

Project #:

13014

INM 47-23

Project Location (including state):

សម្បត្តិទេសភាព

Leifur E. Lind Head Clerk

11

LAB # LAB USE ONLY	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX	PRESERVATIVE METHOD						SAMPLING				
					WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
28812	Ally 11	3	60A	✓					1				2	4/27	2:30

[illegible]

Relinquished by: <i>Edgar J. ...</i>	Date: <i>6/28/65</i>	Time: <i>12:15</i>
Received by:	Date:	Time:

Relinquished by: Date: 7/27/07 Time:
Received by: Date: Time:

Relinquished by:	Date:	Time:
Received at Laboratory by:	Date:	Time:

ANALYSIS REQUEST
(Circle or Specify Method No.)

MRB	3021B / 602 / 32608 / 524	
ATEX	3021B / 602 / 32608 / 524	
TPH	418 / TX1005 / TX1005 E4(005)	
TPH	8015 GPO / DRO / T/H/C	
PAH	8270C / 525	
Total Metals	Ag As Ba Cd Cr Pb Se Hg 80108/200.7	
TCLP Metals	Ag As Ba Cd Cr Pb Se Hg	
TCLP Volatiles		
TCLP Semi Volatiles		
TCLP Pesticides		
RCI		
GC/MS Vol.	8250B / 624	
GC/MS Semi. Vol.	3270C / 625	
PCBs	3082 / 608	
Pesticides	3091A / 608	
BOD, TSS, pH		
Moisture Content		
Turn Around Time if different from standard		
Hold		

REMARKS:

1 AB 119

ONLY

☐ Day Weight Basis Required
☐ HPRP Report Required
☐ Check if Special Reporting Limits Are Needed

193261146 21 7510

Summary Report

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

Report Date: October 1, 2007

Work Order: 7092825



EMS#: TNM 97-23
Project Location: Eunice, New Mexico
Project Name: TNM 97-23
Project Number: 97-23

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
137742	MW #4	water	2007-09-26	12:20	2007-09-28

Sample - Field Code	BTEX				MTBE
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	MTBE (mg/L)
137742 - MW #4	<0.00100	<0.00100	<0.00100	<0.00100	

APPENDIX III

Laboratory Results
3rd Quarter 2007

TNM 97-23

April 2008

Plains Marketing, L.P.
Houston, Texas

Prepared by:
BBC International, Inc.

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
200 East Sunset Road, Suite E
5002 Basin Street, Suite A1
8808 Camp Bowie Blvd. West, Suite 180

Lubbock, Texas 79424 800•378•1296
El Paso, Texas 79922 888•588•3443
Midland, Texas 79703
Ft. Worth, Texas 76116

E-Mail: lab@traceanalysis.com

806•794•1296 FAX 806•794•1298
915•585•3443 FAX 915•585•4944
432•689•6301 FAX 432•689•6313
817•201•5260 FAX 817•560•4336

Analytical and Quality Control Report

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

Report Date: October 1, 2007

Work Order: 7092825



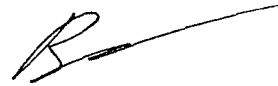
EMS#: TNM 97-23
Project Location: Eunice, New Mexico
Project Name: TNM 97-23
Project Number: 97-23

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
137742	MW #4	water	2007-09-26	12:20	2007-09-28

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.

Case Narrative

Samples for project TNM 97-23 were received by TraceAnalysis, Inc. on 2007-09-28 and assigned to work order 7092825. Samples for work order 7092825 were received intact at a temperature of 4.0 deg.C.

Samples were analyzed for the following tests using their respective methods.

Test	Method
BTEX	S 8021B

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 7092825 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 137742 - MW #4

Analysis: BTEX
QC Batch: 41568
Prep Batch: 35920

Analytical Method: S 8021B
Date Analyzed: 2007-09-28
Sample Preparation: 2007-09-28

Prep Method: S 5030B
Analyzed By: MT
Prepared By: MT

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)		0.0929	mg/L	1	0.100	93	75.5 - 118
4-Bromofluorobenzene (4-BFB)		0.0734	mg/L	1	0.100	73	55.6 - 114

Method Blank (1) QC Batch: 41568

QC Batch: 41568
Prep Batch: 35920

Date Analyzed: 2007-09-28
QC Preparation: 2007-09-28

Analyzed By: MT
Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000595	mg/L	0.001
Toluene		<0.000327	mg/L	0.001
Ethylbenzene		<0.000377	mg/L	0.001
Xylene		<0.000366	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0949	mg/L	1	0.100	95	87.8 - 112
4-Bromofluorobenzene (4-BFB)		0.0744	mg/L	1	0.100	74	57.9 - 106

Laboratory Control Spike (LCS-1)

QC Batch: 41568
Prep Batch: 35920

Date Analyzed: 2007-09-28
QC Preparation: 2007-09-28

Analyzed By: MT
Prepared By: MT

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0992	mg/L	1	0.100	<0.000595	99	78.6 - 119
Toluene	0.0994	mg/L	1	0.100	<0.000327	99	80.7 - 117
Ethylbenzene	0.0983	mg/L	1	0.100	<0.000377	98	80.8 - 116
Xylene	0.297	mg/L	1	0.300	<0.000366	99	81.4 - 116

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	0.102	mg/L	1	0.100	<0.000595	102	78.6 - 119	3	20
Toluene	0.101	mg/L	1	0.100	<0.000327	101	80.7 - 117	2	20
Ethylbenzene	0.100	mg/L	1	0.100	<0.000377	100	80.8 - 116	2	20
Xylene	0.304	mg/L	1	0.300	<0.000366	101	81.4 - 116	2	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)	0.0982	0.0992	mg/L	1	0.100	98	99	81.5 - 117
4-Bromofluorobenzene (4-BFB)	0.103	0.103	mg/L	1	0.100	103	103	82.3 - 121

Matrix Spike (MS-1) Spiked Sample: 137742

QC Batch: 41568
Prep Batch: 35920

Date Analyzed: 2007-09-28
QC Preparation: 2007-09-28

Analyzed By: MT
Prepared By: MT

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.102	mg/L	1	0.100	<0.000595	102	52.2 - 126
Toluene	0.101	mg/L	1	0.100	<0.000327	101	53.1 - 121
Ethylbenzene	0.0992	mg/L	1	0.100	<0.000377	99	43.2 - 124
Xylene	0.300	mg/L	1	0.300	<0.000366	100	51.2 - 120

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	0.100	mg/L	1	0.100	<0.000595	100	52.2 - 126	2	20
Toluene	0.0998	mg/L	1	0.100	<0.000327	100	53.1 - 121	1	20
Ethylbenzene	0.0982	mg/L	1	0.100	<0.000377	98	43.2 - 124	1	20
Xylene	0.296	mg/L	1	0.300	<0.000366	99	51.2 - 120	1	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)	0.0983	0.0988	mg/L	1	0.1	98	99	74.4 - 120
4-Bromofluorobenzene (4-BFB)	0.101	0.101	mg/L	1	0.1	101	101	73.5 - 126

Standard (ICV-1)

QC Batch: 41568

Date Analyzed: 2007-09-28

Analyzed By: MT

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0989	99	85 - 115	2007-09-28
Toluene		mg/L	0.100	0.0982	98	85 - 115	2007-09-28
Ethylbenzene		mg/L	0.100	0.0978	98	85 - 115	2007-09-28
Xylene		mg/L	0.300	0.294	98	85 - 115	2007-09-28

Standard (CCV-1)

QC Batch: 41568

Date Analyzed: 2007-09-28

Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0998	100	85 - 115	2007-09-28
Toluene		mg/L	0.100	0.0995	100	85 - 115	2007-09-28
Ethylbenzene		mg/L	0.100	0.0984	98	85 - 115	2007-09-28
Xylene		mg/L	0.300	0.297	99	85 - 115	2007-09-28

ORIGINAL COPY

Summary Report

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

Report Date: December 26, 2007

Work Order: 7122134



EMS#: TNM 97-23
Project Location: Eunice, New Mexico
Project Name: TNM 97-23
Project Number: 97-23

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
146279	MW-1	water	2007-12-19	14:10	2007-12-21
146280	MW-2	water	2007-12-19	14:39	2007-12-21
146281	MW-3	water	2007-12-19	15:07	2007-12-21
146282	MW-5	water	2007-12-19	15:39	2007-12-21
146283	MW-4	water	2007-12-19	16:15	2007-12-21

Sample - Field Code	BTEX				MTBE
	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylene (mg/L)	MTBE (mg/L)
146279 - MW-1	<0.00100	<0.00100	<0.00100	<0.00100	
146280 - MW-2	<0.00100	<0.00100	<0.00100	<0.00100	
146281 - MW-3	<0.00100	<0.00100	<0.00100	<0.00100	
146282 - MW-5	<0.00100	<0.00100	<0.00100	<0.00100	
146283 - MW-4	<0.00100	<0.00100	<0.00100	<0.00100	

APPENDIX IV

Laboratory Results
4th Quarter 2007

TNM 97-23

April 2008

Plains Marketing, L.P.
Houston, Texas

Prepared by:
BBC International, Inc.

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
200 East Sunset Road, Suite E
5002 Basin Street, Suite A1
8808 Camp Bowie Blvd. West, Suite 180

Lubbock, Texas 79424
El Paso, Texas 79922
Midland, Texas 79703
Ft. Worth, Texas 76116

E-Mail: lab@traceanalysis.com

800•378•1296
888•588•3443
432•689•6301
817•201•5260
FAX 806•794•1298
FAX 915•585•4944
FAX 432•689•6313
FAX 817•560•4336

Analytical and Quality Control Report

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

Report Date: December 26, 2007

Work Order: 7122134



EMS#: TNM 97-23
Project Location: Eunice, New Mexico
Project Name: TNM 97-23
Project Number: 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
146279	MW-1	water	2007-12-19	14:10	2007-12-21
146280	MW-2	water	2007-12-19	14:39	2007-12-21
146281	MW-3	water	2007-12-19	15:07	2007-12-21
146282	MW-5	water	2007-12-19	15:39	2007-12-21
146283	MW-4	water	2007-12-19	16:15	2007-12-21

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 6 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.

Case Narrative

Samples for project TNM 97-23 were received by TraceAnalysis, Inc. on 2007-12-21 and assigned to work order 7122134. Samples for work order 7122134 were received intact at a temperature of 4.0 deg.C.

Samples were analyzed for the following tests using their respective methods.

Test	Method
BTEX	S 8021B

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 7122134 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 146279 - MW-1

Analysis: BTEX
QC Batch: 44147
Prep Batch: 38039

Analytical Method: S 8021B
Date Analyzed: 2007-12-21
Sample Preparation: 2007-12-21

Prep Method: S 5030B
Analyzed By: MT
Prepared By: MT

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)		0.0879	mg/L	1	0.100	88	85.8 - 115
4-Bromofluorobenzene (4-BFB)		0.0635	mg/L	1	0.100	64	53.1 - 108

Sample: 146280 - MW-2

Analysis: BTEX
QC Batch: 44147
Prep Batch: 38039

Analytical Method: S 8021B
Date Analyzed: 2007-12-21
Sample Preparation: 2007-12-21

Prep Method: S 5030B
Analyzed By: MT
Prepared By: MT

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)		0.0890	mg/L	1	0.100	89	85.8 - 115
4-Bromofluorobenzene (4-BFB)		0.0659	mg/L	1	0.100	66	53.1 - 108

Sample: 146281 - MW-3

Analysis: BTEX
QC Batch: 44147
Prep Batch: 38039

Analytical Method: S 8021B
Date Analyzed: 2007-12-21
Sample Preparation: 2007-12-21

Prep Method: S 5030B
Analyzed By: MT
Prepared By: MT

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)		0.0884	mg/L	1	0.100	88	85.8 - 115
4-Bromofluorobenzene (4-BFB)		0.0600	mg/L	1	0.100	60	53.1 - 108

Sample: 146282 - MW-5

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 44147 Date Analyzed: 2007-12-21 Analyzed By: MT
Prep Batch: 38039 Sample Preparation: 2007-12-21 Prepared By: MT

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)		0.0879	mg/L	1	0.100	88	85.8 - 115
4-Bromofluorobenzene (4-BFB)		0.0646	mg/L	1	0.100	65	53.1 - 108

Sample: 146283 - MW-4

Analysis: BTEX Analytical Method: S 8021B Prep Method: S 5030B
QC Batch: 44147 Date Analyzed: 2007-12-21 Analyzed By: MT
Prep Batch: 38039 Sample Preparation: 2007-12-21 Prepared By: MT

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)		0.0881	mg/L	1	0.100	88	85.8 - 115
4-Bromofluorobenzene (4-BFB)		0.0641	mg/L	1	0.100	64	53.1 - 108

Method Blank (1) QC Batch: 44147

QC Batch: 44147 Date Analyzed: 2007-12-21 Analyzed By: MT
Prep Batch: 38039 QC Preparation: 2007-12-21 Prepared By: MT

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000595	mg/L	0.001
Toluene		<0.000327	mg/L	0.001

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
Ethylbenzene		<0.000377	mg/L	0.001
Xylene		<0.000366	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0898	mg/L	1	0.100	90	76.6 - 116
4-Bromofluorobenzene (4-BFB)		0.0664	mg/L	1	0.100	66	55.1 - 103

Laboratory Control Spike (LCS-1)

QC Batch: 44147
Prep Batch: 38039

Date Analyzed: 2007-12-21
QC Preparation: 2007-12-21

Analyzed By: MT
Prepared By: MT

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0889	mg/L	1	0.100	<0.000595	89	81.6 - 116
Toluene	0.0868	mg/L	1	0.100	<0.000327	87	81.8 - 115
Ethylbenzene	0.0837	mg/L	1	0.100	<0.000377	84	81.3 - 114
Xylene	0.249	mg/L	1	0.300	<0.000366	83	81.3 - 114

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	0.0919	mg/L	1	0.100	<0.000595	92	81.6 - 116	3	20
Toluene	0.0901	mg/L	1	0.100	<0.000327	90	81.8 - 115	4	20
Ethylbenzene	0.0885	mg/L	1	0.100	<0.000377	88	81.3 - 114	6	20
Xylene	0.261	mg/L	1	0.300	<0.000366	87	81.3 - 114	5	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)	0.0947	0.0944	mg/L	1	0.100	95	94	79.8 - 118
4-Bromofluorobenzene (4-BFB)	0.0953	0.0979	mg/L	1	0.100	95	98	80.8 - 121

Matrix Spike (MS-1) Spiked Sample: 146109

QC Batch: 44147
Prep Batch: 38039

Date Analyzed: 2007-12-21
QC Preparation: 2007-12-21

Analyzed By: MT
Prepared By: MT

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.102	mg/L	1	0.100	<0.000595	102	55.8 - 131
Toluene	0.100	mg/L	1	0.100	<0.000327	100	54.1 - 132
Ethylbenzene	0.0979	mg/L	1	0.100	<0.000377	98	47 - 133
Xylene	0.296	mg/L	1	0.300	<0.000366	99	44.6 - 134

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	0.0917	mg/L	1	0.100	<0.000595	92	55.8 - 131	11	20
Toluene	0.0896	mg/L	1	0.100	<0.000327	90	54.1 - 132	12	20
Ethylbenzene	0.0861	mg/L	1	0.100	<0.000377	86	47 - 133	13	20
Xylene	0.258	mg/L	1	0.300	<0.000366	86	44.6 - 134	14	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)	0.0953	0.0925	mg/L	1	0.1	95	92	86.5 - 110
4-Bromofluorobenzene (4-BFB)	0.109	0.0976	mg/L	1	0.1	109	98	79.4 - 122

Standard (ICV-1)

QC Batch: 44147

Date Analyzed: 2007-12-21

Analyzed By: MT

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0951	95	85 - 115	2007-12-21
Toluene		mg/L	0.100	0.0927	93	85 - 115	2007-12-21
Ethylbenzene		mg/L	0.100	0.0886	89	85 - 115	2007-12-21
Xylene		mg/L	0.300	0.268	89	85 - 115	2007-12-21

Standard (CCV-1)

QC Batch: 44147

Date Analyzed: 2007-12-21

Analyzed By: MT

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	2007-12-21
Toluene		mg/L	0.100	0.0890	89	85 - 115	2007-12-21
Ethylbenzene		mg/L	0.100	0.0852	85	85 - 115	2007-12-21
Xylene		mg/L	0.300	0.256	85	85 - 115	2007-12-21

TraceAnalysis, Inc.

email: lab@traceanalysis.com

Company Name: BBC International Phone #: 575-397-6388
 Address: 1324 W Maryland (Street, City, Zip) Fax #: 575-397-0397
 Contact Person: Cliff Bowman E-mail: cbowman@bbcinternational.com
 Invoice to: Cliff Bowman
 (If different from above) Plains
 Project #:

Project Name: 71M 97-23
 Project Location (including state): Sumner NM
 Sampler Signature: [Signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
2879	MW #1	3	Voa	✓									12/19/07	2:10
2880	MW #2	3	Voa	✓									12/19/07	2:37
2881	MW #3	3	Voa	✓									12/19/07	3:07
2882	MW #5	3	Voa	✓									12/19/07	3:33
2883	MW #4	3	Voa	✓									12/19/07	4:15

Relinquished by: [Signature] Date: 12/20/07 Time: 8:00
 Received by: Jennifer Colley
 Relinquished by: [Signature] Date: 12/20/07 Time: 10:15
 Received by: [Signature]
 Relinquished by: [Signature] Date: 12/20/07 Time: 11:30
 Received by: [Signature]

LAB Order ID #

71221384

Page 1 of 1

5002 Basin Street, Suite A1
 Midland, Texas 79703
 Tel (432) 689-6301
 Fax (432) 689-6313

200 East Sunset Rd., Suite E
 El Paso, Texas 79922
 Tel (915) 585-3443
 Fax (915) 585-4944
 1 (888) 588-3443

6015 Harris Pkwy., Suite 110
 Ft. Worth, Texas 76132
 Tel (817) 201-5260

ANALYSIS REQUEST (Circle or Specify Method No.)

☒ MTBE 3021B / 302 / 8250B / 624	☒ BTEX 3021B / 302 / 8250B / 624	☒ TPH 418.1 / TX1005 / TX1005 Ext(C35)	☒ PAH 8270C / 625	☒ Total Metals Ag As Ba Cd Cr Pb Se Hg 5010B/200.7	☒ TCLP Metals Ag As Ba Cd Cr Pb Se Hg	☒ TCLP Volatiles	☒ TCLP Semi Volatiles	☒ TCLP Pesticides	☒ RCI	☒ GC/MS Vol. 8250B / 624	☒ 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
--	--	--	---	--	---	--	---	---	---	--	--	--	--	--	--	--

REMARKS:

LAB USE ONLY

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

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 2008

**Plains Marketing, L.P.
Houston, Texas**

**Prepared by:
BBC International, Inc.**

District I - (505) 593-0101
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
Alamogordo, NM 87410
District IV - (505) 621-7431

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 Texas-New Mexico Pipe Line Company	Contact Edwin H. Gripp	
Address Box 60028, San Angelo, TX 76906	Telephone No. (915) 947-9000	
Facility Name 14" main line	Facility Type pipe line	
Surface Owner L. V. Lewis Estate	Mineral Owner	Lease No.

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 sour crude	Volume of Release 617 Barrels	Volume Recovered 400 Barrels
Source of Release 14" main line	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 10-22-97 11:45 AM
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? Bonnie Pritchard	
By Whom? Johnny W. Chapman	Date and Hour 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. 17385 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: <i>[Signature]</i>		
Printed Name: Edwin H. Gripp		Approved by District Supervisor:
Title: District Manager	Approval Date:	Expiration Date:
Date:	Phone: 915-947-9001	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