

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

State of New Mexico
Energy Minerals and Natural Resources

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

1 RP-1105

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Plains Marketing, L. P.	Contact	Camille Reynolds
Address	3112 W. US Hwy 82, Lovington, NM 88260	Telephone No.	(505) 441-0965
Facility Name	Abandoned Vacuum 10-Inch Sour	Facility Type	10" Steel Pipeline
Surface Owner	BLM	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
L	8	20S	37E					Lea

Latitude 32° 35' 02.5" North Longitude 103° 16' 46.6" West.

NATURE OF RELEASE

Type of Release	Crude Oil	Volume of Release	8 barrels	Volume Recovered	3 barrels
Source of Release	10-inch Steel Pipeline	Date and Hour of Occurrence	07 October 2004 @ 1030	Date and Hour of Discovery	07 October 2004 @ 1040
Was Immediate Notice Given?	XX Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Larry Johnson		
By Whom?	Camille Reynolds	Date and Hour	12 October 2004 @ 1530		
Was a Watercourse Reached?	<input type="checkbox"/> Yes XX <input type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

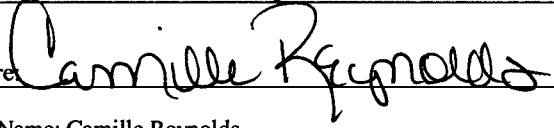
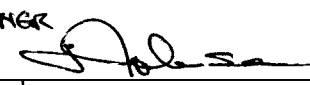
Describe Cause of Problem and Remedial Action Taken.* Abandoned 10" line separated at a weld connection on 4-Inch adjoining line. The 10" line was cold cut & capped. The line is abandoned so information concerning volume and pressure on the line is unavailable.

Describe Area Affected and Cleanup Action Taken.* Four (4) consecutive groundwater sampling events were conducted in 2006. Laboratory results of the groundwater sampling events indicated groundwater was not impacted at the Abandoned Vacuum 10-Inch Sour release site. **Plains requests approval to plug & abandon the three (3) groundwater monitoring wells on-site in accordance with NMOCD guidelines.**

SEE ATTACHED PLAINS MARKETING, L. P., ANNUAL GROUNDWATER REPORT, DATED JANUARY 2007, FOR DETAILS OF THE GROUNDWATER SAMPLING EVENTS CONDUCTED IN CALENDAR YEAR 2006.

DTW: 30 TO 31 FEET BGS

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases, which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature 	OIL CONSERVATION DIVISION	
Printed Name: Camille Reynolds	Approved by District Supervisor: 	
Title: Remediation Coordinator	Approval Date: <u>1.18.07</u>	Expiration Date: <u>-</u>
E-mail Address: <u>cjreynolds@paalp.com</u>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <u>18 January 2007</u> Phone: <u>(505) 441-0965</u>		

* Attach Additional Sheets If Necessary

NMOCD

Basin Environmental Service Technologies, LLC

P. O. Box 301
Lovington, New Mexico 88260
kdutton@basinenv.com
Office: (505) 396-2378 Fax: (505) 396-1429

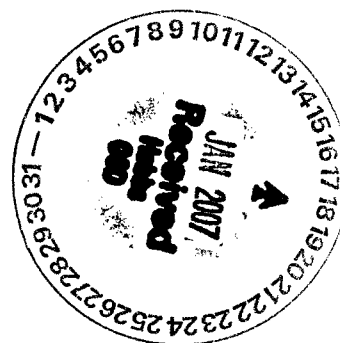


2006 ANNUAL MONITORING REPORT

**ABANDONED VACUUM 10-INCH SOUR
NW ¼ SW ¼ SECTION 8, TOWNSHIP 20 SOUTH, RANGE 37 EAST
LATITUDE 32°, 35', 02.7" NORTH, LONGITUDE 103°, 16', 46.6" WEST
LEA COUNTY, NEW MEXICO
PLAINS SRS NUMBER: 2004-00208
NMOCD REF: 1RP-1105**

PREPARED FOR:

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



PREPARED BY:

**BASIN ENVIRONMENTAL SERVICE TECHNOLOGIES, LLC
P. O. Box 301
Lovington, New Mexico 88260**

January 2007

**Ken Dutton
Project Manager**

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Figure 2B – Inferred Groundwater Gradient Map – 08 June 2006

Figure 2C – Inferred Groundwater Gradient Map – 13 September 2006

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Figure 3C – Groundwater Concentration Map – 13 September 2006

Figure 3D – Groundwater Concentration Map – 27 December 2006

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Appendix B - Release Notification and Corrective Action (Form C-141)

INTRODUCTION

Basin Environmental Service Technologies, LLC, (Basin) on behalf of Plains Marketing, L.P., (Plains), prepared this annual report in compliance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an annual report by April 1 of each year. This report is intended to be viewed as a complete document with text, figures, tables, and appendices. This report presents the results of the quarterly groundwater monitoring events conducted in calendar year 2006 only. Additional site activities and remedial work is summarized in several letters and reports previously submitted to the NMOCD. For reference, the Site Location Map is provided as Figure 1.

Groundwater monitoring was conducted during the four (4) consecutive quarters of 2006 at the request of the NMOCD to assess the potential for impact to the groundwater from dissolved phase constituents. The groundwater monitoring event consisted of measuring static water levels in the monitoring wells, checking for the presence of phase-separated hydrocarbons (PSH) atop the water column, and purging and sampling of each well exhibiting sufficient recharge.

SITE DESCRIPTION AND BACKGROUND INFORMATION

The legal description of the site is NW ¼ SW ¼ Section 8, Township 20 South, Range 37 East. The site latitude is 32° 35' 02.7" North and the site longitude is 103° 16' 46.6" West. On 07 October 2004, Basin responded to the pipeline release on behalf of Plains to repair the pipeline and excavate the impacted soil. The Abandoned Vacuum 10-Inch Sour Pipeline was subsequently de-oiled, cold cut and capped. Approximately 8 barrels of crude oil were released from the Plains pipeline and 3 barrels were recovered. The site is characterized by a right-of-way for the pipeline in a pasture utilized for cattle grazing. The initial visibly surface stained area included the release point covering an area approximately 262 feet long by 17 feet wide. Excavation activities during the emergency response and subsequent remediation of the site covered an area approximately 262 feet long by 17 feet wide and ranged from approximately 4-inches to 1-foot below ground surface (bgs), respectively. Excavated soil was placed on a 6-mil poly-liner for future remedial action.

A Preliminary Site Investigation Report (PSIR) and Work Plan, dated 23 November 2004 was submitted and approved by NMOCD, Hobbs District I. The approved plan included vertical delineation of the release point utilizing a drill rig and submission of a PSIR Remediation/Closure Plan based on delineation activities. A Revised PSIR Remediation/Closure Plan, dated 30 September 2006, was submitted and approved by NMOCD, Hobbs District I. The approved plan included excavating the limited vertical subsurface area immediately around the release point to a depth of approximately fifteen (15) feet bgs, installation of a 20-mil poly liner at the floor of the excavation, blending the excavated soil with clean segregated overburden, backfilling the excavation with blended stockpiled material on-site, collecting soil samples at 300 cubic yard intervals ensuring TPH constituent concentrations were below 1000 mg/kg and reseed with approved BLM grass seed.

Based on the laboratory results from soil boring SB-1, three (3) groundwater monitoring wells were installed to evaluate the quality of groundwater. During the installation of the three (3) groundwater monitoring wells (March 2006), there were no visual signs of PSH and laboratory results of the selected soil samples did not indicate BTEX and TPH constituent concentrations above laboratory method detection limits for the soil samples submitted to the laboratory.

Currently, there are three (3) groundwater monitoring wells, MW-1 which is up gradient, MW-2 and MW-3, which are down gradient, on site.

FIELD ACTIVITIES

The site monitoring wells were gauged and sampled on 21 March 2006, 08 June 2006, 13 September 2006 and 27 December 2006. During the quarterly sampling events, the monitoring wells, designated to be sampled, were purged of approximately 3 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 stored in clean, glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a trailer mounted polystyrene tank and disposed at an approved disposal in Monument, New Mexico.

Locations of the groundwater monitoring wells and the inferred groundwater elevations, which were constructed from the measurements collected during the quarterly monitoring events, are depicted on Figures 2A through 2D. The groundwater elevation data are provided as Table 1.

The Groundwater Gradient Map, Figure 2D, indicates a general gradient of approximately 0.002 ft/ft. to the south-southeast as measured between groundwater monitor wells MW-1 and MW-3. The corrected groundwater elevation ranged between 3519.20 and 3518.86 feet, in MW-1 and MW-3, 27 December 2006, respectively.

LABORATORY RESULTS

Groundwater samples were collected from the groundwater monitoring wells (MW-1, MW-2 and MW-3) during the quarterly monitoring events and were delivered to Environmental Laboratory of Texas, Odessa, Texas for determination of benzene, toluene, ethylbenzene and xylenes (BTEX) constituent concentrations by EPA Method SW846-8021b. A summary of BTEX constituent concentrations for 2006 is presented in Table 2 and the laboratory reports are provided as Appendix A.

Laboratory results for the three (3) site groundwater samples, obtained during the four (4) sampling periods, indicated that benzene and total BTEX constituent concentrations were below laboratory method detection limits for groundwater monitoring wells MW-1, MW-2 and MW-3, as depicted on Figures 3A through 3D.

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

Based on the depth of the soil impact at this site, the NMOCD requested four (4) quarterly groundwater sampling events to be conducted at this site. This report presents the results of monitoring activities for the monitoring period. Currently, there are three (3) groundwater monitoring wells (MW-1, MW-2 and MW-3) on-site. The fourth (4th) quarter groundwater sampling event on 27 December 2006, indicates a general gradient of approximately 0.002 ft/ft to the south-southeast, as indicated on the Groundwater Gradient Map, Figure 2D.

Laboratory results for the three (3) site groundwater samples, obtained during the four (4) periods, indicated that benzene and BTEX constituent concentrations were below laboratory method detection limits for groundwater monitoring wells MW-1, MW-2 and MW-3.

ANTICIPATED ACTIONS

The NMOCD approved soil remediation activities at the Abandoned Vacuum 10-Inch Sour site will be initiated in the first (1st) quarter of 2007 and a soil closure request will be submitted to NMOCD, Hobbs District I. Based on the laboratory results for the groundwater samples collected during the 2006 sampling periods, Plains request approval from the NMOCD to cease groundwater sampling and plug and abandon the three (3) groundwater monitoring wells.

LIMITATIONS

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

Basin has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Basin 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. Basin has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin 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 Basin and/or Plains.

DISTRIBUTION

Copy 1: Ben Stone
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
ben.stone@state.nm.us

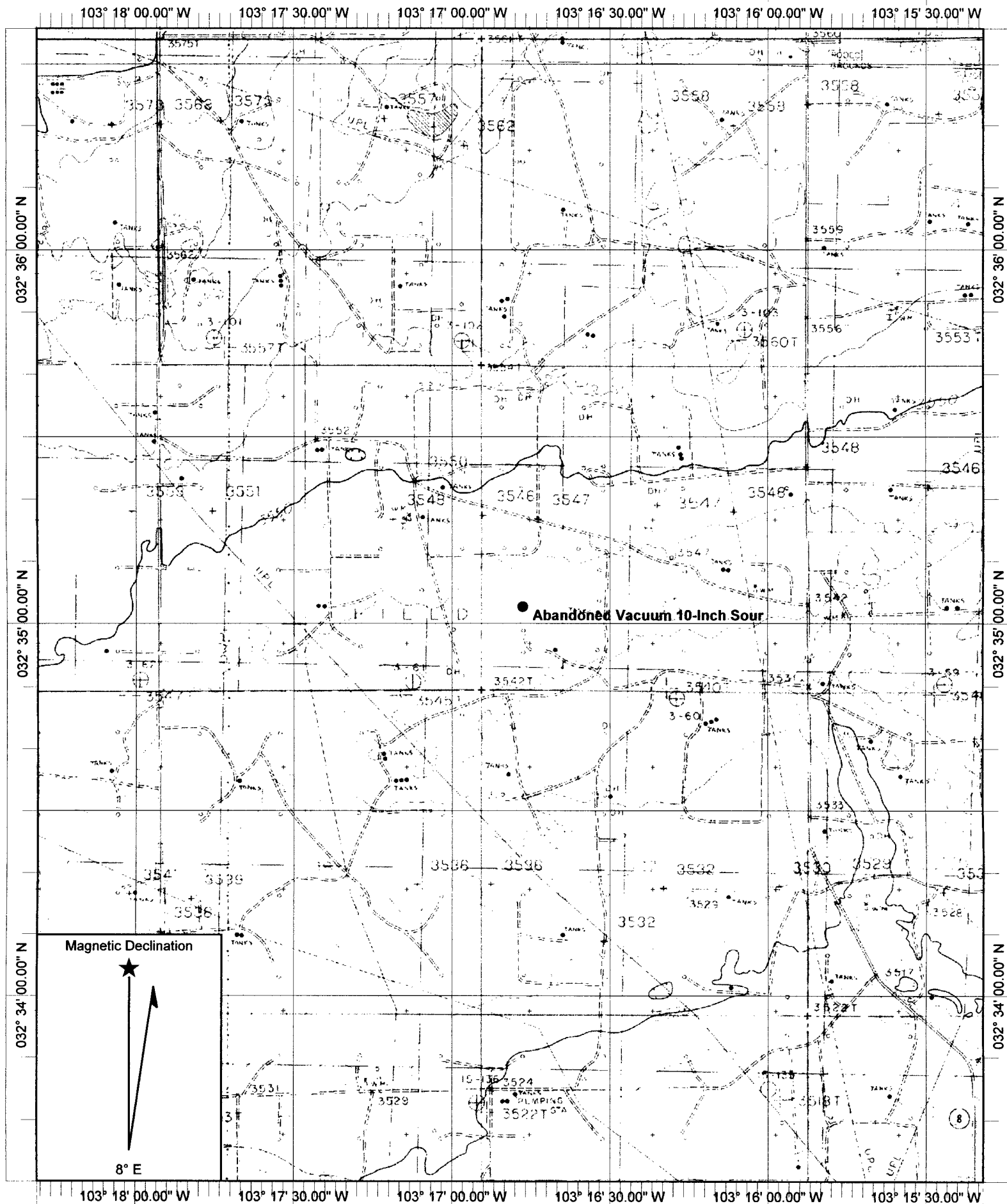
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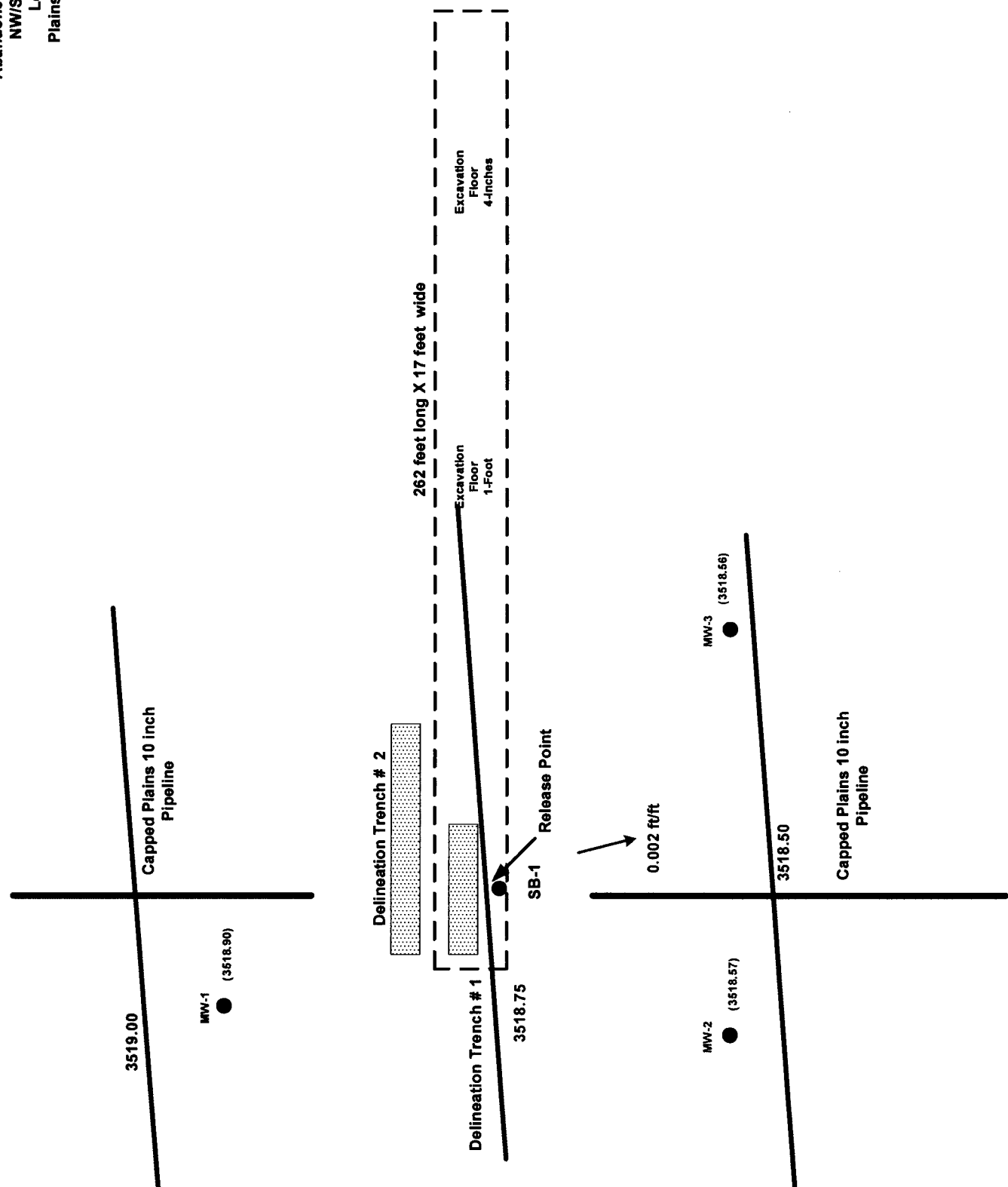


Name: MONUMENT SOUTH
 Date: 1/17/2007
 Scale: 1 inch equals 2000 feet

Location: 032° 35' 03.11" N 103° 16' 49.02" W NAD 27
 Caption: Figure 1, Site Location Map
 Plains Marketing, L. P.
 Abandoned Vacuum 10-Inch Sour



Plains Marketing, L. P.
Abandoned Vacuum 10-Inch Sour
NW/SW S8, T20S, R37E
Lea County, NM
Plains SRS: 2004-00208



LEGEND

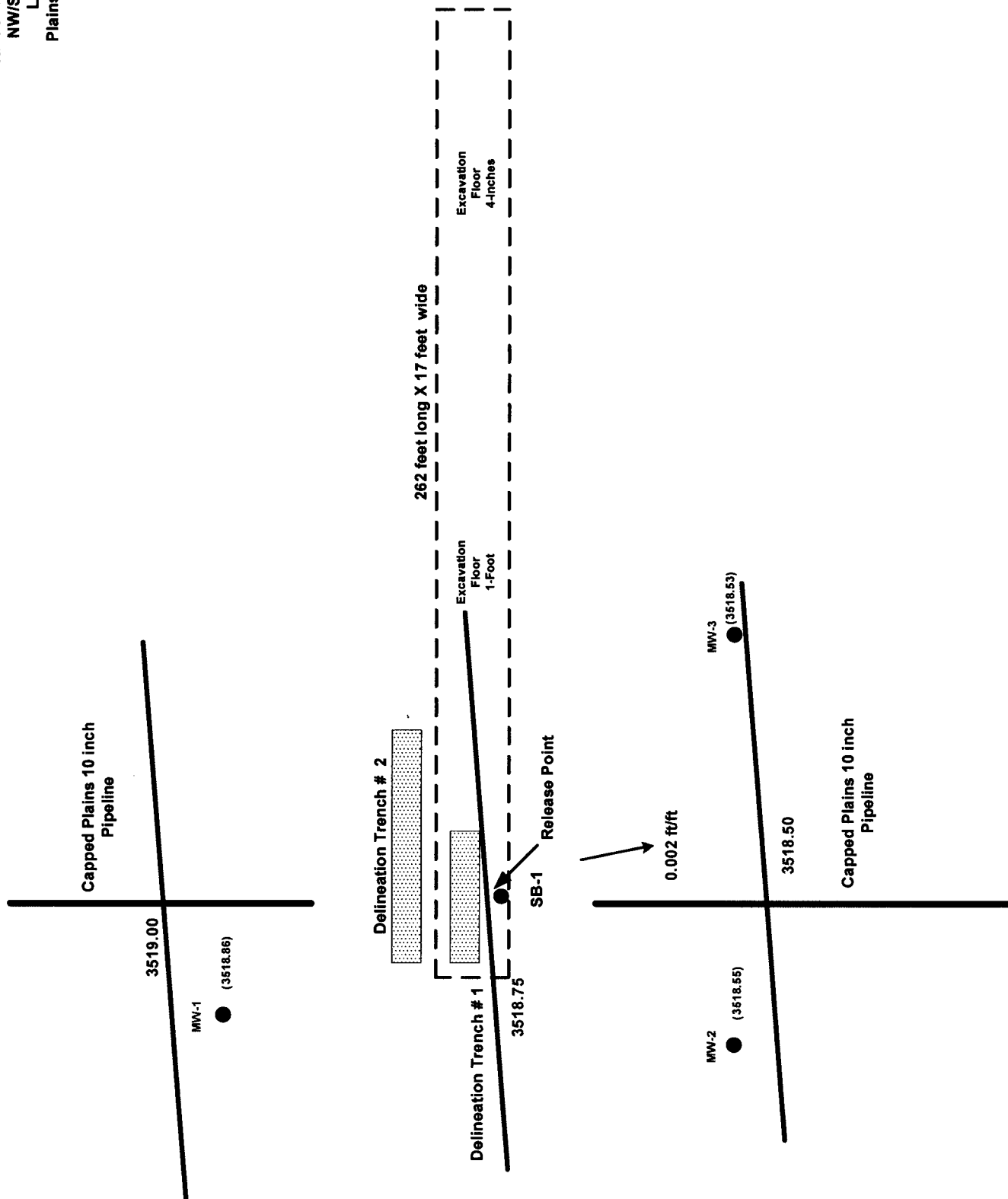
- SB-1
- Monitor Wells
- Groundwater Elevation (3518) In Feet

DESCRIPTION

Figure 2A
Inferred Groundwater Gradient Map
21 March 2006



Plains Marketing, L. P.
Abandoned Vacuum 10-Inch Sour
NW/SW S8, T20S, R37E
Lea County, NM
Plains SRS: 2004-00208



LEGEND

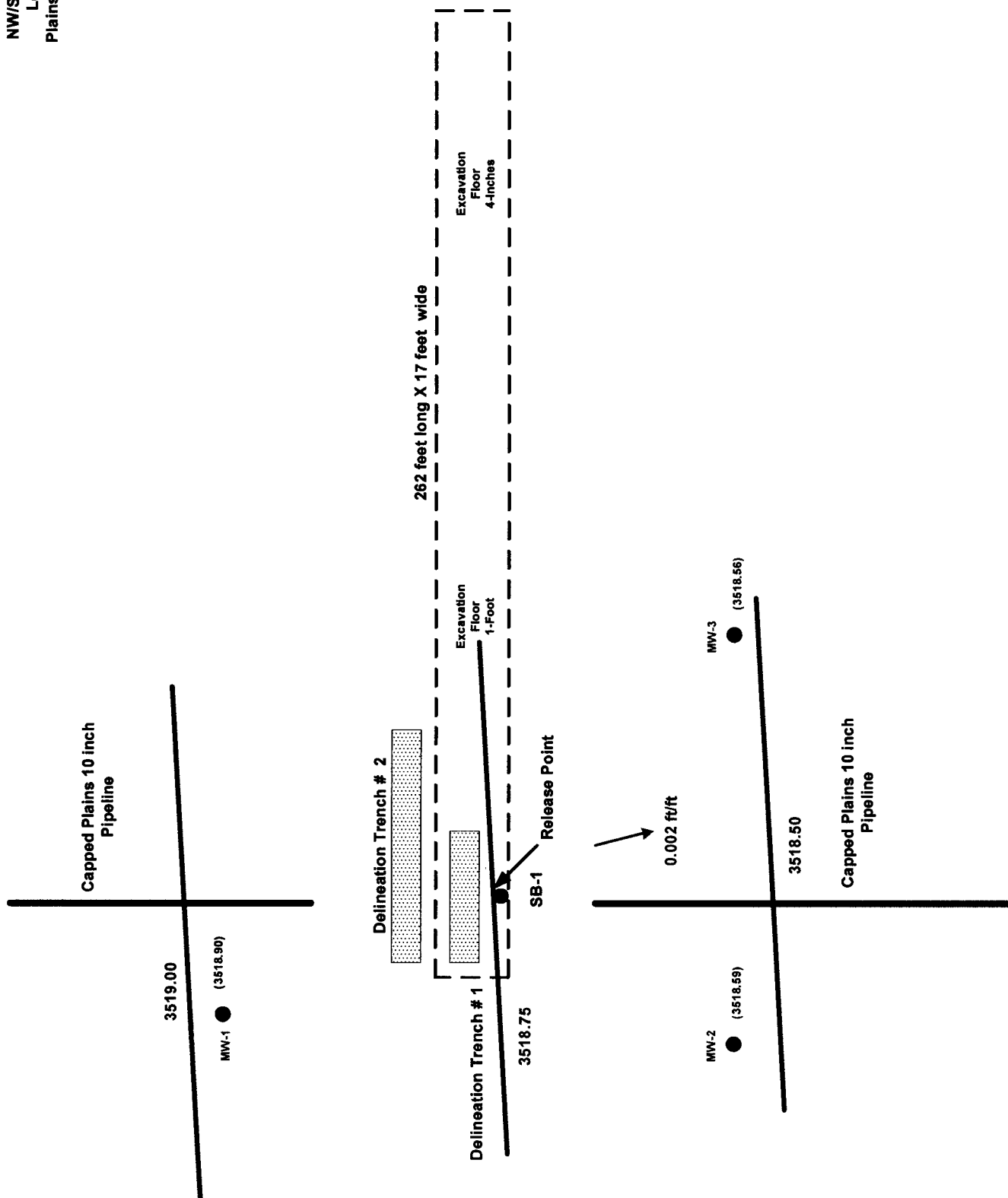
- SB-1
- Monitor Wells
- Groundwater Elevation (3518) In Feet

DESCRIPTION

Figure 2B
Inferred Groundwater Gradient Map
08 June 2006



Plains Marketing, L. P.
Abandoned Vacuum 10-Inch Sour
NW/SW S8, T20S, R37E
Lea County, NM
Plains SRS: 2004-00208



LEGEND

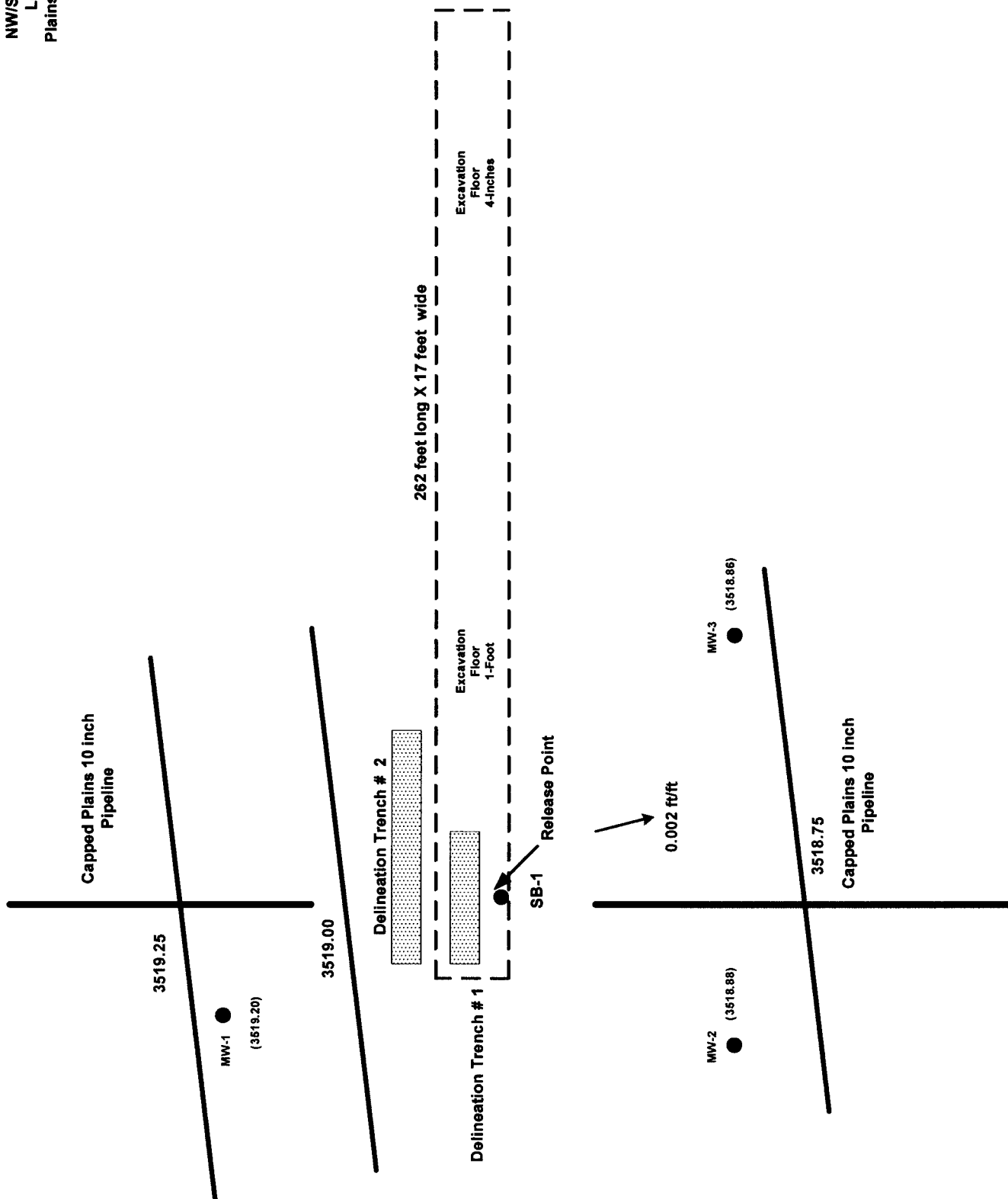
- SB-1
- Monitor Wells
- Groundwater Elevation (3518) In Feet

DESCRIPTION

Figure 2C
Inferred Groundwater Gradient Map
13 September 2006



Plains Marketing, L. P.
Abandoned Vacuum 10-Inch Sour
NW/SW S8, T20S, R37E
Lea County, NM
Plains SRS: 2004-00208



LEGEND

- SB-1
- Monitor Wells
- Groundwater Elevation (3516) In Feet

DESCRIPTION

Figure 2D
Inferred Groundwater Gradient Map
27 December 2006



Plains Marketing, L. P.
Abandoned Vacuum 10-Inch Sour
NW/SW S8, T20S, R37E
Lea County, NM
Plains SRS: 2004-00208

Capped Plains 10 inch
Pipeline

MW-1

Benzene: <0.001 mg/L
BTEX: <0.001 mg/L

Delineation Trench # 2

262 feet long X 17 feet wide

Delineation Trench # 1

Excavation
Floor
1-Foot

Excavation
Floor
4-Inches

Release Point
SB-1

MW-2

Benzene: <0.001 mg/L
BTEX: <0.001 mg/L

MW-3

Benzene: <0.001 mg/L
BTEX: <0.001 mg/L

LEGEND

● SB-1

● Monitor Wells

mg/L = milligrams per liter

B - Benzene

T - Toluene

E - Ethylbenzene

X - Xylenes

DESCRIPTION

Figure 3A
Groundwater Concentration (BTEX)
Map
21 March 2006



Plains Marketing, L. P.
Abandoned Vacuum 10-Inch Sour
NW/SW S8, T20S, R37E
Lea County, NM
Plains SRS: 2004-00208

Capped Plains 10 inch
Pipeline

MW-1

Benzene: <0.001 mg/L
BTEX: <0.001 mg/L

Delineation Trench # 2

262 feet long X 17 feet wide

Delineation Trench # 1

Excavation
Floor
1-Foot

Excavation
Floor
4-Inches

Release Point
SB-1

MW-2

Benzene: <0.001 mg/L
BTEX: <0.001 mg/L

MW-3

Benzene: <0.001 mg/L
BTEX: <0.001 mg/L

Capped Plains 10 inch
Pipeline

LEGEND

- SB-1
- Monitor Wells
- mg/L = milligrams per liter
- B - Benzene
- T - Toluene
- E - Ethylbenzene
- X - Xylenes

DESCRIPTION

Figure 3B
Groundwater Concentration (BTEX)
Map
08 June 2006



Plains Marketing, L. P.
Abandoned Vacuum 10-Inch Sour
NW/SW S8, T20S, R37E
Lea County, NM
Plains SRS: 2004-00208

Capped Plains 10 inch
Pipeline

MW-1

Benzene: <0.001 mg/L
BTEX: <0.001 mg/L

Delineation Trench # 2

262 feet long X 17 feet wide

Delineation Trench # 1

Excavation
Floor
4-Inches

Excavation
Floor
1-Foot

Release Point
SB-1

MW-2

Benzene: <0.001 mg/L
BTEX: <0.001 mg/L

MW-3

Benzene: <0.001 mg/L
BTEX: <0.001 mg/L

Capped Plains 10 inch
Pipeline

LEGEND

- SB-1
- Monitor Wells
- mg/L = milligrams per liter
- B - Benzene
- T - Toluene
- E - Ethylbenzene
- X - Xylenes

DESCRIPTION

Figure 3C
Groundwater Concentration (BTEX)
Map
13 September 2006



Plains Marketing, L. P.
Abandoned Vacuum 10-Inch Sour
NW/SW S8, T20S, R37E
Lea County, NM
Plains SRS: 2004-00208

Capped Plains 10 inch
Pipeline

MW-1

Benzene: <0.001 mg/L
BTEX: <0.001 mg/L

Delineation Trench # 2

262 feet long X 17 feet wide

Delineation Trench # 1

Excavation
Floor
1-Foot

Excavation
Floor
4-Inches

SB-1
Release Point

MW-2

Benzene: <0.001 mg/L
BTEX: <0.001 mg/L

MW-3

Benzene: <0.001 mg/L
BTEX: <0.001 mg/L

Capped Plains 10 inch
Pipeline

LEGEND

- SB-1
- Monitor Wells
- mg/L = milligrams per liter
- B - Benzene
- T - Toluene
- E - Ethylbenzene
- X - Xylenes

DESCRIPTION

Figure 3D
Groundwater Concentration (BTEX)
Map
27 December 2006

TABLE 1

GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
 ABANDONED VACUUM 10"
 LEA COUNTY, NEW MEXICO
 PLAINS SRS NO. 2004-00208

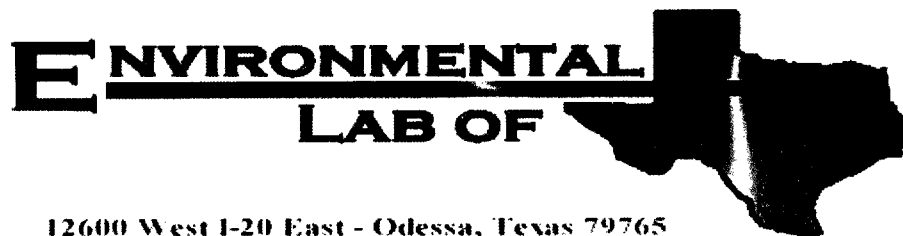
WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 1	03/21/06	3,549.88	-	30.98	0.00	3,518.90
	06/08/06	3,549.88	-	31.02	0.00	3,518.86
	09/13/06	3,549.88	-	30.98	0.00	3,518.90
	12/27/06	3,549.88	-	30.68	0.00	3,519.20
MW - 2	03/21/06	3,548.96	-	30.39	0.00	3,518.57
	06/08/06	3,548.96	-	30.41	0.00	3,518.55
	09/13/06	3,548.96	-	30.37	0.00	3,518.59
	12/27/06	3,548.96	-	30.08	0.00	3,518.88
MW - 3	03/21/06	3,549.58	-	31.02	0.00	3,518.56
	06/08/06	3,549.58	-	31.05	0.00	3,518.53
	09/13/06	3,549.58	-	31.02	0.00	3,518.56
	12/27/06	3,549.58	-	30.72	0.00	3,518.86

TABLE 2

CONCENTRATIONS OF BENZENE & BTEX

PLAINS MARKETING, L.P.
 ABANDONED VACUUM 10"
 LEA COUNTY, NEW MEXICO
 PLAINS EMS NO. 2004-00208

SAMPLE LOCATION	SAMPLE DATE	METHODS: EPA SW 846-8021B, 5030				
		BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL- BENZENE (mg/L)	M,P- XYLENES (mg/L)	O-XYLENES (mg/L)
MW-1	03/21/06	<0.001	<0.001	<0.001	<0.001	<0.001
	06/08/06	<0.001	<0.001	<0.001	<0.001	<0.001
	09/13/06	<0.001	<0.001	<0.001	<0.001	<0.001
	12/27/06	<0.001	<0.001	<0.001	<0.001	<0.001
MW-2	03/21/06	<0.001	<0.001	<0.001	<0.001	<0.001
	06/08/06	<0.001	<0.001	<0.001	<0.001	<0.001
	09/13/06	<0.001	<0.001	<0.001	<0.001	<0.001
	12/27/06	<0.001	<0.001	<0.001	<0.001	<0.001
MW-3	03/21/06	<0.001	<0.001	<0.001	<0.001	<0.001
	06/08/06	<0.001	<0.001	<0.001	<0.001	<0.001
	09/13/06	<0.001	<0.001	<0.001	<0.001	<0.001
	12/27/06	<0.001	<0.001	<0.001	<0.001	<0.001



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Abandoned Vac 10"

Project Number: EMS# 2004-00208

Location: Lea Co., NM

Lab Order Number: 6C22009

Report Date: 03/30/06

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914
Reported:
03/30/06 11:34

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	6C22009-01	Water	03/21/06 15:25	03/22/06 15:30
MW-2	6C22009-02	Water	03/22/06 09:15	03/22/06 15:30
MW-3	6C22009-03	Water	03/22/06 10:24	03/22/06 15:30

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914
Reported:
03/30/06 11:34

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (6C22009-01) Water									
Benzene	ND	0.00100	mg/L	1	EC62419	03/24/06	03/28/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		89.0 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		80.5 %	80-120		"	"	"	"	
MW-2 (6C22009-02) Water									
Benzene	ND	0.00100	mg/L	1	EC62805	03/28/06	03/29/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		86.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.2 %	80-120		"	"	"	"	
MW-3 (6C22009-03) Water									
Benzene	ND	0.00100	mg/L	1	EC62805	03/28/06	03/29/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		85.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.0 %	80-120		"	"	"	"	

Environmental Lab of Texas

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Page 2 of 6

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914
Reported:
03/30/06 11:34

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EC62419 - EPA 5030C (GC)

Blank (EC62419-BLK1)

Prepared: 03/24/06 Analyzed: 03/27/06

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	34.2		ug/l	40.0		85.5	80-120			
Surrogate: 4-Bromofluorobenzene	33.5		"	40.0		83.8	80-120			

LCS (EC62419-BS1)

Prepared: 03/24/06 Analyzed: 03/26/06

Benzene	0.0425	0.00100	mg/L	0.0500		85.0	80-120			
Toluene	0.0450	0.00100	"	0.0500		90.0	80-120			
Ethylbenzene	0.0461	0.00100	"	0.0500		92.2	80-120			
Xylene (p/m)	0.0943	0.00100	"	0.100		94.3	80-120			
Xylene (o)	0.0467	0.00100	"	0.0500		93.4	80-120			
Surrogate: a,a,a-Trifluorotoluene	38.4		ug/l	40.0		96.0	80-120			
Surrogate: 4-Bromofluorobenzene	34.3		"	40.0		85.8	80-120			

Calibration Check (EC62419-CCV1)

Prepared: 03/24/06 Analyzed: 03/28/06

Benzene	41.7		ug/l	50.0		83.4	80-120			
Toluene	46.7		"	50.0		93.4	80-120			
Ethylbenzene	52.3		"	50.0		105	80-120			
Xylene (p/m)	106		"	100		106	80-120			
Xylene (o)	53.0		"	50.0		106	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.7		"	40.0		94.2	80-120			
Surrogate: 4-Bromofluorobenzene	40.9		"	40.0		102	80-120			

Matrix Spike (EC62419-MS1)

Source: 6C22009-01

Prepared: 03/24/06 Analyzed: 03/28/06

Benzene	0.0430	0.00100	mg/L	0.0500	ND	86.0	80-120			
Toluene	0.0479	0.00100	"	0.0500	ND	95.8	80-120			
Ethylbenzene	0.0523	0.00100	"	0.0500	ND	105	80-120			
Xylene (p/m)	0.106	0.00100	"	0.100	ND	106	80-120			
Xylene (o)	0.0514	0.00100	"	0.0500	ND	103	80-120			
Surrogate: a,a,a-Trifluorotoluene	38.6		ug/l	40.0		96.5	80-120			
Surrogate: 4-Bromofluorobenzene	33.5		"	40.0		83.8	80-120			

Environmental Lab of Texas

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Page 3 of 6

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
03/30/06 11:34

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EC62419 - EPA 5030C (GC)

Matrix Spike Dup (EC62419-MSD1)

Source: 6C22009-01

Prepared: 03/24/06 Analyzed: 03/28/06

Benzene	0.0425	0.00100	mg/L	0.0500	ND	85.0	80-120	1.17	20	
Toluene	0.0475	0.00100	"	0.0500	ND	95.0	80-120	0.839	20	
Ethylbenzene	0.0527	0.00100	"	0.0500	ND	105	80-120	0.00	20	
Xylene (p/m)	0.108	0.00100	"	0.100	ND	108	80-120	1.87	20	
Xylene (o)	0.0524	0.00100	"	0.0500	ND	105	80-120	1.92	20	
Surrogate: a,a,a-Trifluorotoluene	36.6		ug/l	40.0		91.5	80-120			
Surrogate: 4-Bromofluorobenzene	35.7		"	40.0		89.2	80-120			

Batch EC62805 - EPA 5030C (GC)

Blank (EC62805-BLK1)

Prepared: 03/28/06 Analyzed: 03/29/06

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	33.7		ug/l	40.0		84.2	80-120			
Surrogate: 4-Bromofluorobenzene	34.0		"	40.0		85.0	80-120			

LCS (EC62805-BS1)

Prepared: 03/28/06 Analyzed: 03/29/06

Benzene	0.0406	0.00100	mg/L	0.0500		81.2	80-120			
Toluene	0.0453	0.00100	"	0.0500		90.6	80-120			
Ethylbenzene	0.0596	0.00100	"	0.0500		119	80-120			
Xylene (p/m)	0.106	0.00100	"	0.100		106	80-120			
Xylene (o)	0.0513	0.00100	"	0.0500		103	80-120			
Surrogate: a,a,a-Trifluorotoluene	35.6		ug/l	40.0		89.0	80-120			
Surrogate: 4-Bromofluorobenzene	39.6		"	40.0		99.0	80-120			

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914
Reported:
03/30/06 11:34

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EC62805 - EPA 5030C (GC)

Calibration Check (EC62805-CCV1)

Prepared: 03/28/06 Analyzed: 03/29/06

Benzene	42.5		ug/l	50.0		85.0	80-120			
Toluene	46.6		"	50.0		93.2	80-120			
Ethylbenzene	50.1		"	50.0		100	80-120			
Xylene (p/m)	101		"	100		101	80-120			
Xylene (o)	51.1		"	50.0		102	80-120			
Surrogate: a,a,a-Trifluorotoluene	34.5		"	40.0		86.2	80-120			
Surrogate: 4-Bromofluorobenzene	37.8		"	40.0		94.5	80-120			

Matrix Spike (EC62805-MS1)

Source: 6C22008-01

Prepared: 03/28/06 Analyzed: 03/29/06

Benzene	0.0401	0.00100	mg/L	0.0500	ND	80.2	80-120			
Toluene	0.0442	0.00100	"	0.0500	ND	88.4	80-120			
Ethylbenzene	0.0592	0.00100	"	0.0500	ND	118	80-120			
Xylene (p/m)	0.106	0.00100	"	0.100	ND	106	80-120			
Xylene (o)	0.0515	0.00100	"	0.0500	ND	103	80-120			
Surrogate: a,a,a-Trifluorotoluene	32.5		ug/l	40.0		81.2	80-120			
Surrogate: 4-Bromofluorobenzene	43.6		"	40.0		109	80-120			

Matrix Spike Dup (EC62805-MSD1)

Source: 6C22008-01

Prepared: 03/28/06 Analyzed: 03/29/06

Benzene	0.0407	0.00100	mg/L	0.0500	ND	81.4	80-120	1.49	20	
Toluene	0.0445	0.00100	"	0.0500	ND	89.0	80-120	0.676	20	
Ethylbenzene	0.0597	0.00100	"	0.0500	ND	119	80-120	0.844	20	
Xylene (p/m)	0.107	0.00100	"	0.100	ND	107	80-120	0.939	20	
Xylene (o)	0.0516	0.00100	"	0.0500	ND	103	80-120	0.00	20	
Surrogate: a,a,a-Trifluorotoluene	33.0		ug/l	40.0		82.5	80-120			
Surrogate: 4-Bromofluorobenzene	39.8		"	40.0		99.5	80-120			

Environmental Lab of Texas

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Page 5 of 6

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914
Reported:
03/30/06 11:34

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:

Raland K. Tuttle

Date:

3/30/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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

**12600 West 1-20 East
Odessa, Texas 79763**

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name:

Project #: EM5# 2004-00708

Project Loc: Lea Co., NM

PO #: P4A / C. Reynolds

Fax No: 505-396-1429

[illegible]

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

Client: Basin Plains
 Date/Time: 8/22/06 3:30
 Order #: 6022009
 Initials: CK

Sample Receipt Checklist

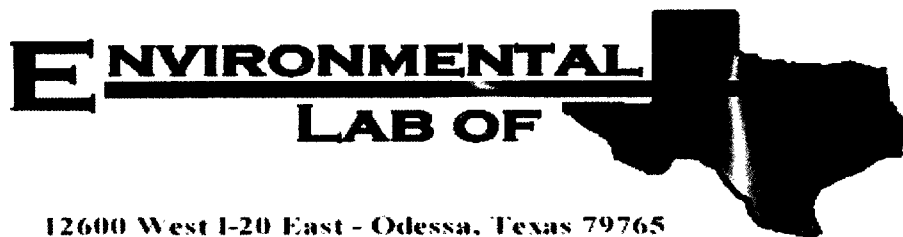
Temperature of container/cooler?	Yes	No	<u>25</u> C
Shipping container/cooler in good condition?	<u>Yes</u>	No	
Custody Seals intact on shipping container/cooler?	Yes	No	<u>Not present</u>
Custody Seals intact on sample bottles?	<u>Yes</u>	No	<u>Not present</u>
Chain of custody present?	<u>Yes</u>	No	
Sample Instructions complete on Chain of Custody?	<u>Yes</u>	No	
Chain of Custody signed when relinquished and received?	<u>Yes</u>	No	
Chain of custody agrees with sample label(s)	<u>Yes</u>	No	
Container labels legible and intact?	<u>Yes</u>	No	
Sample Matrix and properties same as on chain of custody?	<u>Yes</u>	No	
Samples in proper container/bottle?	<u>Yes</u>	No	
Samples properly preserved?	<u>Yes</u>	No	
Sample bottles intact?	<u>Yes</u>	No	
Preservations documented on Chain of Custody?	<u>Yes</u>	No	
Containers documented on Chain of Custody?	<u>Yes</u>	No	
Sufficient sample amount for indicated test?	<u>Yes</u>	No	
All samples received within sufficient hold time?	<u>Yes</u>	No	
VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable

Other observations:

Variance Documentation:

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

Corrective Action Taken:



Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Abandoned Vac 10"

Project Number: EMS# 2004-00208

Location: Lea Co., NM

Lab Order Number: 6F15011

Report Date: 06/23/06

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	6F15011-01	Water	06/08/06 10:45	06/15/06 12:45
MW-2	6F15011-02	Water	06/08/06 11:55	06/15/06 12:45
MW-3	6F15011-03	Water	06/08/06 12:40	06/15/06 12:45

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (6F15011-01) Water									
Benzene	ND	0.00100	mg/L	1	EF62102	06/21/06	06/21/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		107 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.2 %	80-120		"	"	"	"	
MW-2 (6F15011-02) Water									
Benzene	ND	0.00100	mg/L	1	EF62102	06/21/06	06/21/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		97.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.0 %	80-120		"	"	"	"	
MW-3 (6F15011-03) Water									
Benzene	ND	0.00100	mg/L	1	EF62102	06/21/06	06/21/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		96.8 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.8 %	80-120		"	"	"	"	

Environmental Lab of Texas

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Page 2 of 5

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EF62102 - EPA 5030C (GC)

Blank (EF62102-BLK1)

Prepared & Analyzed: 06/21/06

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: <i>a,a,a</i> -Trifluorotoluene	40.8		ug/l	40.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	32.0		"	40.0		80.0	80-120			

LCS (EF62102-BS1)

Prepared & Analyzed: 06/21/06

Benzene	0.0523	0.00100	mg/L	0.0500		105	80-120			
Toluene	0.0568	0.00100	"	0.0500		114	80-120			
Ethylbenzene	0.0548	0.00100	"	0.0500		110	80-120			
Xylene (p/m)	0.119	0.00100	"	0.100		119	80-120			
Xylene (o)	0.0582	0.00100	"	0.0500		116	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	42.8		ug/l	40.0		107	80-120			
Surrogate: 4-Bromofluorobenzene	41.1		"	40.0		103	80-120			

Calibration Check (EF62102-CCV1)

Prepared & Analyzed: 06/21/06

Benzene	58.5		ug/l	50.0		117	80-120			
Toluene	59.9		"	50.0		120	80-120			
Ethylbenzene	58.1		"	50.0		116	80-120			
Xylene (p/m)	119		"	100		119	80-120			
Xylene (o)	59.6		"	50.0		119	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	43.0		"	40.0		108	80-120			
Surrogate: 4-Bromofluorobenzene	38.6		"	40.0		96.5	80-120			

Matrix Spike (EF62102-MS1)

Source: 6F15011-01

Prepared & Analyzed: 06/21/06

Benzene	0.0523	0.00100	mg/L	0.0500	ND	105	80-120			
Toluene	0.0579	0.00100	"	0.0500	ND	116	80-120			
Ethylbenzene	0.0509	0.00100	"	0.0500	ND	102	80-120			
Xylene (p/m)	0.119	0.00100	"	0.100	ND	119	80-120			
Xylene (o)	0.0598	0.00100	"	0.0500	ND	120	80-120			
Surrogate: <i>a,a,a</i> -Trifluorotoluene	44.0		ug/l	40.0		110	80-120			
Surrogate: 4-Bromofluorobenzene	43.6		"	40.0		109	80-120			

Environmental Lab of Texas

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Page 3 of 5

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EF62102 - EPA 5030C (GC)										
Matrix Spike Dup (EF62102-MSD1)		Source: 6F15011-01			Prepared & Analyzed: 06/21/06					
Benzene	0.0579	0.00100	mg/L	0.0500	ND	116	80-120	9.95	20	
Toluene	0.0576	0.00100	"	0.0500	ND	115	80-120	0.866	20	
Ethylbenzene	0.0578	0.00100	"	0.0500	ND	116	80-120	12.8	20	
Xylene (p/m)	0.120	0.00100	"	0.100	ND	120	80-120	0.837	20	
Xylene (o)	0.0580	0.00100	"	0.0500	ND	116	80-120	3.39	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	40.7		ug/l	40.0		102	80-120			
Surrogate: 4-Bromofluorobenzene	41.0		"	40.0		102	80-120			

Environmental Lab of Texas

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Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

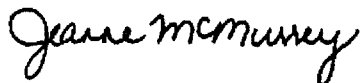
Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:



Date: 6/23/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
La Tasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Plains

Date/Time: 6/15/06 12:45

Order #: WF15011

Initials: ck

Sample Receipt Checklist

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

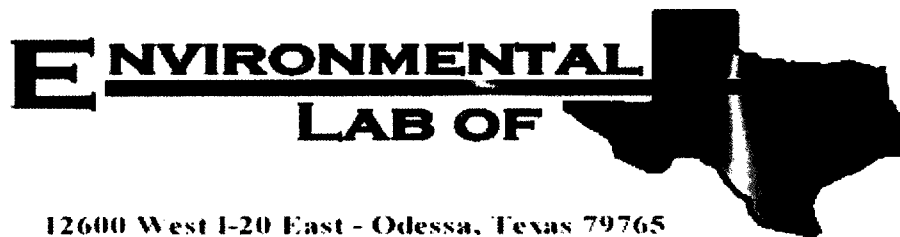
Other observations:

Variance Documentation:

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

Regarding: _____

Corrective Action Taken:



Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Abandoned Vac 10"

Project Number: EMS# 2004-00208

Location: Lea County, NM

Lab Order Number: 6115014

Report Date: 09/21/06

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	6115014-01	Water	09/13/06 09:47	09-15-2006 13:35
MW-2	6115014-02	Water	09/13/06 10:20	09-15-2006 13:35
MW-3	6115014-03	Water	09/13/06 11:10	09-15-2006 13:35

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (6115014-01) Water									
Benzene	ND	0.00100	mg/L	1	E161906	09/19/06	09/20/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		86.0 %	80-120		"	"	"	"	
Surrogate: <i>4</i> -Bromofluorobenzene		84.8 %	80-120		"	"	"	"	
MW-2 (6115014-02) Water									
Benzene	ND	0.00100	mg/L	1	E161906	09/19/06	09/20/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		96.8 %	80-120		"	"	"	"	
Surrogate: <i>4</i> -Bromofluorobenzene		94.0 %	80-120		"	"	"	"	
MW-3 (6115014-03) Water									
Benzene	ND	0.00100	mg/L	1	E161906	09/19/06	09/20/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		88.5 %	80-120		"	"	"	"	
Surrogate: <i>4</i> -Bromofluorobenzene		80.5 %	80-120		"	"	"	"	

Environmental Lab of Texas

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

Page 2 of 5

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch EI61906 - EPA 5030C (GC)

Blank (EI61906-BLK1)

Prepared: 09/19/06 Analyzed: 09/20/06

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	41.7		ug/l	40.0		104	80-120			
Surrogate: 4-Bromofluorobenzene	42.7		"	40.0		107	80-120			

LCS (EI61906-BS1)

Prepared & Analyzed: 09/19/06

Benzene	0.0553	0.00100	mg/L	0.0500		111	80-120			
Toluene	0.0473	0.00100	"	0.0500		94.6	80-120			
Ethylbenzene	0.0437	0.00100	"	0.0500		87.4	80-120			
Xylene (p/m)	0.105	0.00100	"	0.100		105	80-120			
Xylene (o)	0.0506	0.00100	"	0.0500		101	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.9		ug/l	40.0		99.8	80-120			
Surrogate: 4-Bromofluorobenzene	36.7		"	40.0		91.8	80-120			

Calibration Check (EI61906-CCV1)

Prepared: 09/19/06 Analyzed: 09/20/06

Benzene	0.0540		mg/L	0.0500		108	80-120			
Toluene	0.0482		"	0.0500		96.4	80-120			
Ethylbenzene	0.0489		"	0.0500		97.8	80-120			
Xylene (p/m)	0.0966		"	0.100		96.6	80-120			
Xylene (o)	0.0480		"	0.0500		96.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	40.1		ug/l	40.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	43.3		"	40.0		108	80-120			

Matrix Spike (EI61906-MS1)

Source: 6114005-01

Prepared: 09/19/06 Analyzed: 09/20/06

Benzene	0.0597	0.00100	mg/L	0.0500	ND	119	80-120			
Toluene	0.0503	0.00100	"	0.0500	ND	101	80-120			
Ethylbenzene	0.0502	0.00100	"	0.0500	ND	100	80-120			
Xylene (p/m)	0.106	0.00100	"	0.100	ND	106	80-120			
Xylene (o)	0.0511	0.00100	"	0.0500	ND	102	80-120			
Surrogate: a,a,a-Trifluorotoluene	39.8		ug/l	40.0		99.5	80-120			
Surrogate: 4-Bromofluorobenzene	46.6		"	40.0		116	80-120			

Environmental Lab of Texas

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Page 3 of 5

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EI61906 - EPA 5030C (GC)										
Matrix Spike Dup (EI61906-MSD1)		Source: 6114005-01			Prepared: 09/19/06 Analyzed: 09/20/06					
Benzene	0.0580	0.00100	mg/L	0.0500	ND	116	80-120	2.55	20	
Toluene	0.0510	0.00100	"	0.0500	ND	102	80-120	0.985	20	
Ethylbenzene	0.0506	0.00100	"	0.0500	ND	101	80-120	0.995	20	
Xylene (p/m)	0.106	0.00100	"	0.100	ND	106	80-120	0.00	20	
Xylene (o)	0.0534	0.00100	"	0.0500	ND	107	80-120	4.78	20	
Surrogate: <i>a,a,a</i> -Trifluorotoluene	40.0		ug/l	40.0		100	80-120			
Surrogate: 4-Bromofluorobenzene	46.0		"	40.0		115	80-120			

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

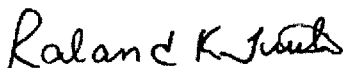
Project: Abandoned Vac 10"
Project Number: EMS# 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:



Date:

9/21/2006

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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

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

Client: Plains
 Date/ Time: 9/5/06 1:35
 Lab ID #: 6E15014
 Initials: OK

Sample Receipt Checklist

				Client Initials
1	Temperature of container/ cooler?	Yes	No	4.0 °C
2	Shipping container in good condition?	Yes	No	
3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present
4	Custody Seals intact on sample bottles/ container?	Yes	No	Not Present
5	Chain of Custody present?	Yes	No	
6	Sample instructions complete of Chain of Custody?	Yes	No	
7	Chain of Custody signed when relinquished/ received?	Yes	No	
8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont./ Lid
9	Container label(s) legible and intact?	Yes	No	Not Applicable
10	Sample matrix/ properties agree with Chain of Custody?	Yes	No	
11	Containers supplied by ELOT?	Yes	No	
12	Samples in proper container/ bottle?	Yes	No	See Below
13	Samples properly preserved?	Yes	No	See Below
14	Sample bottles intact?	Yes	No	
15	Preservations documented on Chain of Custody?	Yes	No	
16	Containers documented on Chain of Custody?	Yes	No	
17	Sufficient sample amount for indicated test(s)?	Yes	No	See Below
18	All samples received within sufficient hold time?	Yes	No	See Below
19	VOC samples have zero headspace?	Yes	No	Not Applicable

Variance Documentation

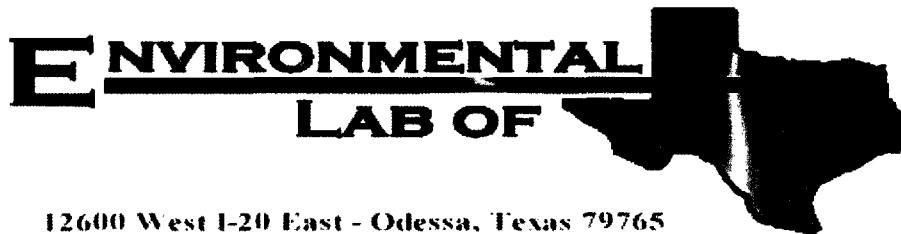
Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ See attached e-mail/ fax
☐ Client understands and would like to proceed with analysis
☐ Cooling process had begun shortly after sampling event



12600 West I-20 East - Odessa, Texas 79765

Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Abandoned Vacuum 10"

Project Number: EMS: 2004-00208

Location: Lea County, NM

Lab Order Number: 6L29007

Report Date: 01/02/07

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vacuum 10"
Project Number: EMS: 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-1	6L29007-01	Water	12/27/06 08:00	12-29-2006 14:00
MW-2	6L29007-02	Water	12/27/06 09:15	12-29-2006 14:00
MW-3	6L29007-03	Water	12/27/06 10:30	12-29-2006 14:00

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vacuum 10"
Project Number: EMS: 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-1 (6L29007-01) Water									
Benzene	ND	0.00100	mg/L	1	EL63101	12/31/06	12/31/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		96.5 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.8 %	80-120		"	"	"	"	
MW-2 (6L29007-02) Water									
Benzene	ND	0.00100	mg/L	1	EL63101	12/31/06	12/31/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		100 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.2 %	80-120		"	"	"	"	
MW-3 (6L29007-03) Water									
Benzene	ND	0.00100	mg/L	1	EL63101	12/31/06	12/31/06	EPA 8021B	
Toluene	ND	0.00100	"	"	"	"	"	"	
Ethylbenzene	ND	0.00100	"	"	"	"	"	"	
Xylene (p/m)	ND	0.00100	"	"	"	"	"	"	
Xylene (o)	ND	0.00100	"	"	"	"	"	"	
Surrogate: <i>a,a,a</i> -Trifluorotoluene		96.2 %	80-120		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		87.2 %	80-120		"	"	"	"	

Environmental Lab of Texas

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Page 2 of 5

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vacuum 10"
Project Number: EMS: 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch EL63101 - EPA 5030C (GC)

Blank (EL63101-BLK1)

Prepared: 12/31/06 Analyzed: 01/01/07

Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00100	"							
Xylene (o)	ND	0.00100	"							
Surrogate: a,a,a-Trifluorotoluene	36.1		ug/l	40.0		90.2	80-120			
Surrogate: 4-Bromofluorobenzene	37.0		"	40.0		92.5	80-120			

LCS (EL63101-BS1)

Prepared: 12/31/06 Analyzed: 01/01/07

Benzene	0.0455	0.00100	mg/L	0.0500		91.0	80-120			
Toluene	0.0472	0.00100	"	0.0500		94.4	80-120			
Ethylbenzene	0.0444	0.00100	"	0.0500		88.8	80-120			
Xylene (p/m)	0.0942	0.00100	"	0.100		94.2	80-120			
Xylene (o)	0.0439	0.00100	"	0.0500		87.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	36.2		ug/l	40.0		90.5	80-120			
Surrogate: 4-Bromofluorobenzene	43.5		"	40.0		109	80-120			

Calibration Check (EL63101-CCV1)

Prepared: 12/31/06 Analyzed: 01/01/07

Benzene	48.2		ug/l	50.0		96.4	80-120			
Toluene	49.3		"	50.0		98.6	80-120			
Ethylbenzene	56.4		"	50.0		113	80-120			
Xylene (p/m)	94.8		"	100		94.8	80-120			
Xylene (o)	45.3		"	50.0		90.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.8		"	40.0		94.5	80-120			
Surrogate: 4-Bromofluorobenzene	44.1		"	40.0		110	80-120			

Matrix Spike (EL63101-MS1)

Source: 6L29005-01

Prepared: 12/31/06 Analyzed: 01/01/07

Benzene	0.0470	0.00100	mg/L	0.0500	ND	94.0	80-120			
Toluene	0.0473	0.00100	"	0.0500	ND	94.6	80-120			
Ethylbenzene	0.0502	0.00100	"	0.0500	ND	100	80-120			
Xylene (p/m)	0.0959	0.00100	"	0.100	ND	95.9	80-120			
Xylene (o)	0.0441	0.00100	"	0.0500	ND	88.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	35.7		ug/l	40.0		89.2	80-120			
Surrogate: 4-Bromofluorobenzene	42.9		"	40.0		107	80-120			

Environmental Lab of Texas

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Page 3 of 5

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

Project: Abandoned Vacuum 10"
Project Number: EMS: 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Organics by GC - Quality Control
Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL63101 - EPA 5030C (GC)										
Matrix Spike Dup (EL63101-MSD1)		Source: 6L29005-01		Prepared: 12/31/06 Analyzed: 01/01/07						
Benzene	0.0461	0.00100	mg/L	0.0500	ND	92.2	80-120	1.93	20	
Toluene	0.0485	0.00100	"	0.0500	ND	97.0	80-120	2.51	20	
Ethylbenzene	0.0527	0.00100	"	0.0500	ND	105	80-120	4.88	20	
Xylene (p/m)	0.0978	0.00100	"	0.100	ND	97.8	80-120	1.96	20	
Xylene (o)	0.0458	0.00100	"	0.0500	ND	91.6	80-120	3.78	20	
Surrogate: a,a,a-Trifluorotoluene	37.3		ug/l	40.0		93.2	80-120			
Surrogate: 4-Bromofluorobenzene	42.6		"	40.0		106	80-120			

Environmental Lab of Texas

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Page 4 of 5

Plains All American EH & S
1301 S. County Road 1150
Midland TX, 79706-4476

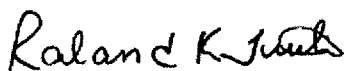
Project: Abandoned Vacuum 10"
Project Number: EMS: 2004-00208
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:



Date: 1/2/2007

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director
LaTasha Cornish, Chemist
Sandra Sanchez, Lab Tech.

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

PAGE 01 OF 01

Project Name: ABANDONED VACUUM 10-INCH

Project #: 2004-00208

Project Loc: Lea County, NM

PO #: PAA - C. J. Reynolds

Fax No: (505) 396-1429

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

a-mail: kad@basinenv.com

(lab use only)

ORDER #: 6L29007

[illegible]

Special Instructions:

Requisitioned by:

Relinquished by:	Date	Time

Received by:

Date	Time
------	------

Relinquished by:

Reinquished by:	Date	Time

~~Received by:~~

Date	Time
------	------

Relinquished by:

Relinquished by:	Date	Time
	11/1/11	

Received by EL0T:

Date	Time
------------	------------

Temperature Upon Receipt:

00

000

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

Client: Plain P/L / Basin Env.
 Date/ Time: 12-29-06 @ 1400
 Lab ID #: 6L29007
 Initials: JMM

Sample Receipt Checklist

Client Initials

#1 Temperature of container/ cooler?	<u>Yes</u>	No	0.0 °C	
#2 Shipping container in good condition?	<u>Yes</u>	No		
#3 Custody Seals intact on shipping container/ cooler?	<u>Yes</u>	No	Not Present	
#4 Custody Seals intact on sample bottles/ container?	<u>Yes</u>	No	Not Present	
#5 Chain of Custody present?	<u>Yes</u>	No		
#6 Sample instructions complete of Chain of Custody?	<u>Yes</u>	No		
#7 Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No		
#8 Chain of Custody agrees with sample label(s)?	<u>Yes</u>	No	ID written on Cont./ Lid	
#9 Container label(s) legible and intact?	<u>Yes</u>	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No		
#11 Containers supplied by ELOT?	<u>Yes</u>	No		
#12 Samples in proper container/ bottle?	<u>Yes</u>	No	See Below	
#13 Samples properly preserved?	<u>Yes</u>	No	See Below	
#14 Sample bottles intact?	<u>Yes</u>	No		
#15 Preservations documented on Chain of Custody?	<u>Yes</u>	No		
#16 Containers documented on Chain of Custody?	<u>Yes</u>	No		
#17 Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below	
#18 All samples received within sufficient hold time?	<u>Yes</u>	No	See Below	
#19 Subcontract of sample(s)?	<u>Yes</u>	No	Not Applicable	
#20 VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable	

Variance Documentation

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

Regarding: _____

Corrective Action Taken:

- Check all that Apply:
- ☐ See attached e-mail/ fax
 - ☐ Client understands and would like to proceed with analysis
 - ☐ Cooling process had begun shortly after sampling event

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

x Initial Report ☐ Final Report

Name of Company Plains Marketing, LP	Contact Camille Reynolds
Address 5805 East Hwy. 80, Midland, TX 79706	Telephone No. 505-441-0965
Facility Name Abandoned Vacuum 10" Sour	Facility Type 10" Steel Pipeline

Surface Owner BLM	Mineral Owner	Lease No.
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LOCATION OF RELEASE

Unit Letter M	Section 31	Township 20S	Range 37E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea
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Latitude 32° 35' 025" Longitude 103° 16' 46.6"

NATURE OF RELEASE


Type of Release Crude Oil	Volume of Release 8 barrels	Volume Recovered 3 barrels
Source of Release 10" Steel Pipeline	Date and Hour of Occurrence 10/7/04 @ 10:30	Date and Hour of Discovery 10/7/04 @ 10:40
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Larry Johnson	
By Whom? Camille Reynolds	Date and Hour 10-12-04 @ 15:30	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Abandoned 10 line separated at weld connection of 4 inch adjoining line. The 10 inch line was cut and capped. The line is abandoned so information concerning volume and pressure on line is unavailable.

Describe Area Affected and Cleanup Action Taken.* The impacted soil was excavated and stockpiled on plastic. Aerial extent of surface impact was 1,572 square feet.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION		
Printed Name: Camille Reynolds	Approved by District Supervisor:		
Title: Remediation Coordinator	Approval Date:	Expiration Date:	
E-mail Address: cjreynolds@pealp.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 10-21-04	Phone: 505-441-0965		

* Attach Additional Sheets If Necessary