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REPORTS

DATE:

2006

PLAINS
ALL AMERICAN

2006 MAR 13 PM 12 10

March 7, 2006

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

Re: Plains All American – Annual Monitoring Report
One Site in Lea County, New Mexico

Dear Mr. Martin:

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 the Annual Monitoring report for the following site:

Vacuum 10" to Jal Section 20, Township 19 South, Range 37 East, Lea County

EPI prepared this document and has vouched for the accuracy and completeness. On behalf of Plains All American, I have personally reviewed the document and interviewed EPI in order to verify the accuracy and completeness of the document. It is based upon this inquiry and review that Plains All American submits the enclosed Annual Monitoring Report for the above-referenced facility.

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

Sincerely,

Camille Reynolds

Camille Reynolds
Remediation Coordinator
Plains All American

CC: Larry Johnson, NMOCD, Hobbs, NM

Enclosure

PLAINS
ALL AMERICAN
PIPELINE, L.P.

Report is on the L-Drive

2005 ANNUAL MONITORING REPORT

PLAINS PIPELINE, L.P.

VACUUM 10-INCH TO JAL

IR-385

PLAINS REF: 2002-10248
(COMPANY # 231735)

SW¼ OF THE SW¼ OF SECTION 20, TOWNSHIP 19 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

~16 MILES NORTH-NORTHWEST (325°) OF
EUNICE, LEA COUNTY, NEW MEXICO
LATITUDE: N32° 38' 21.3" LONGITUDE: W103° 16' 46.2"

MARCH 2006

PREPARED BY:

Environmental Plus, Inc.

2100 Avenue O
P.O. Box 1558
Eunice, NM 88231
Phone: (505)394-3481
FAX: (505)394-2601
jstegemoller@envplus.net

Distribution List

Plains Pipeline, L.P. – Vacuum 10-inch to Jal
(Plains Ref.: 2002-10248; Company # 231735)

Name	Title	Company or Agency	Mailing Address	e-mail
Ed Martin	Environmental Engineer	NMOCD	1220 S. St. Francis Dr. Sante Fe, NM 87505	ed.martin@state.nm.us
Larry Johnson	Environmental Engineer	NMOCD	1625 French Drive Hobbs, NM 88240	larry.johnson@state.nm.us
Jeff Dann	Senior Environmental Specialist	Plains Pipeline, L.P.	333 Clay St., Suite #1600 Houston, TX 77002	jpdann@paalp.com
Camille Reynolds	Remediation Coordinator	Plains Pipeline, L.P.	3112 W. Hwy 82 Lovington, NM 88260	cjreynolds@paalp.com
File	- -	EPI	P.O. Box 1558 Eunice, NM 88231	iolness@envplus.net

PLAINS ALL AMERICAN

STANDARD OF CARE

Annual Monitoring Report

Vacuum 10-Inch to Jal
Ref. # 2002-10248

The information provided in this report was collected consistent with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993), the NMOCD Unlined Surface Impoundment Closure Guidelines (February 1993), and the Environmental Plus, Inc. (EPI) Standard Operating Procedures and Quality Assurance/Quality Control Plan. The conclusions are based on field observations and laboratory analytical reports as presented in the report. Recommendations follow NMOCD guidance and represent the professional opinions of EPI staff. These opinions were arrived at with currently accepted geologic, hydrogeologic and engineering practices at this time and location. The report was prepared or reviewed by a certified or registered EPI professional with a background in engineering, environmental and/or the natural sciences.

This report was prepared by:

Jason Stegemoller — 7 March 2006
Environmental Scientist — Date

This report was reviewed by:

Iain A. Olness, P.G. — 7 March 2006
Hydrogeologist — Date

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FIGURES

FIGURES (continued)

TABLES

APPENDICES

I. Background

The "Vacuum 10-inch to Jal" (2002-10248) release site is located approximately 16 miles north-northwest of Eunice in Lea County, New Mexico, at an elevation of approximately 3,627 feet above mean sea level (reference *Figures 1* and *2*). The site is located in the southwest quarter of the southwest quarter of section 20, range 19 south, township 37 east. There are no residences or surface water bodies within a 1,000-foot radius of the site. The site is surrounded by a barbed wire fence (reference *Figure 3*).

On September 18, 2002, approximately 250 barrels of crude oil were released with approximately 80 barrels recovered and reintroduced into the system. The release is believed to have been due to internal corrosion of the Vacuum 10" to Jal steel pipeline. The release covered approximately 37,200 square feet (0.85 acres) of pasture land owned by Mr. Jimmie T. Cooper of Monument, New Mexico.

During initial investigative activities, which included the advancement of five soil borings, it was determined that groundwater, situated approximately 18 feet below ground surface (bgs), had been impacted as a result of the release.

Discussions between Link Energy, LLC, the New Mexico Oil Conservation Division (NMOCD) and the land owner resulted in the decision to excavate soil impacted above the NMOCD regulatory thresholds.

Based on the results of the excavation and the advancement of the five soil borings, it was proposed to install a series of monitoring and/or recovery wells at the site to delineate the extent of impacted groundwater.

Five groundwater monitoring wells and three product recovery wells were installed at the site on December 30-31, 2002, to delineate and monitor the extent of groundwater impacts at the site (reference *Figure 3*). The groundwater monitoring wells and the recovery wells were installed to depths ranging from 33 to 38 feet below ground surface (bgs).

An *Annual Monitoring Report* was submitted to the NMOCD on March 29, 2004, documenting the monitoring and sampling results during 2003. Analytical results for samples collected from the groundwater monitoring well network during 2003 indicated benzene concentrations ranged from non-detectable (ND) to 0.00822 mg/L. Reported BTEX concentrations ranged from ND to 0.00471 mg/L. TPH concentrations were reported as ND at or above laboratory method detection limits. Groundwater level measurements indicated groundwater levels fluctuated by as much as six feet in monitoring well MRW-5 and by as little as 0.04 feet in monitoring well MRW-1 during 2003. PSH levels in monitoring well RW-1 ranged from a thickness of 0.01 to 0.15 feet. Based on data collected during the year, groundwater gradient is to the east. On February 25, 2004, a total of 15 soil samples were collected from the sidewalls and bottom of the excavations and submitted to an independent laboratory for quantification of TPH and BTEX constituents. Analytical results indicated that TPH concentrations in six of the soil samples exceeded the NMOCD remedial threshold of 100 mg/Kg for TPH. These results were included in the *2003 Annual Monitoring Report.*

An *Annual Monitoring Report* was submitted to the NMOCD on February 28, 2005, documenting the monitoring and sampling results during 2004. Analytical results for samples collected from the

groundwater monitoring well network during 2004 indicated BTEX and PAH concentrations were non-detectable (ND) at or above each analytes' respective method detection limit. Groundwater level measurements indicated groundwater levels declined approximately 0.23 feet during 2004. PSH levels in monitoring well RW-1 decreased from 0.06 feet at the beginning of the year to a sheen by the end of 2004. Based on data collected during the year, groundwater gradient is to the east.

II. Field Activities

Excavation and disposal of the remaining impacted soil commenced March 16, 2005 and continued through June 28, 2005. Approximately 24,500 cubic yards of material was excavated from the site. Prior to disposal, excavated material was processed in a shaker to separate impacted soil from rock. Approximately 9,460 cubic yards of impacted soil was obtained after processing and transported to C & C Landfarm for treatment. The remaining rock, approximately 15,000 cubic yards is currently stockpiled on site. Approximately 24 cubic yards of sand was purchased from Mr. Jimmy Cooper and placed in the low areas of the eastern excavation prior to backfilling. From May 31, 2005 to July 5, 2005, the eastern excavation was backfilled to within 3-feet of ground surface.

The groundwater monitoring well network was sampled on May 9 and November 18-22, 2005, with the exception of monitoring well RW-1 which indicated the presence of phase-separated hydrocarbons on the water column on May 9, 2005.

An agreement reached between the NMOCD, Plains Pipeline, L.P. and the landowner indicated excavation activities could be terminated if contamination in groundwater and the soil north of the release area could be verified below NMOCD remedial thresholds. To verify groundwater was not impacted to the north of the release area, groundwater monitoring well MW-9 was installed to the north of the western excavation on September 16, 2005 (reference *Figure 16*). Soil samples were collected at 5-foot intervals during the advancement of the well boring. Groundwater samples were collected from MW-9 on September 20, 2005.

Site visits were also made on January 14, and February 21, 2005. These site visits entailed obtaining PSH measurements and water levels from the groundwater monitoring well network and recovering PSH from any impacted wells and/or replacing absorbent socks.

III. Groundwater Gradient and PSH Thickness

Monitoring wells were gauged prior to bailing to determine the depth to groundwater and the thickness of any PSH. Measurements of groundwater levels were limited to the January and February gauging events. Based on these gauging events average groundwater fluctuations were approximately 0.25 feet (reference *Figure 12*). PSH levels in the impacted recovery well (RW-1) were not detectable. A summary of groundwater elevations and PSH thickness is included in Table 1. Based on data collected during the past year, groundwater is flowing to the east (reference *Figures 13* and *15*).

IV. PSH Recovery

Approximately 85.5 gallons of PSH had been recovered through February 2004. Absorbent socks have been utilized to accomplish recovery of PSH on-site since February 2004. The volume of PSH recovered via absorbent socks could not be quantified.

V. Groundwater Sampling

Groundwater monitoring wells MRW-1, MRW-2, MRW-3, MRW-4 and MRW-5 and recovery wells RW-2 and RW-3 were sampled on May 9, 2005 and again on November 18, 2005 along with recovery well RW-1. Ground water samples were submitted for quantification BTEX constituent concentrations using EPA Method 8260b. On September 20, 2005, groundwater samples were collected from groundwater monitoring well MW-9 and the samples submitted to an independent laboratory for quantification of BTEX using EPA Method 8260b. The wells were purged a minimum of three well volumes or dry and samples collected utilizing dedicated or disposable sample bailers. Samples were then placed on ice and shipped to an independent laboratory under chain-of-custody for analyses.

VI. Groundwater Analytical Results

Analytical results for BTEX and PAH for all samples collected from MRW-1, MRW-2, MRW-3, MRW-4, MRW-5, RW-2 and RW-3 during the May 9 and MRW-1, MRW-2, MRW-3, MRW-4, MRW-5 and RW-1, RW-2 and RW-3 during the November 18, 2005 sampling events were non-detectable (ND) at or above each analytes' respective method detection limit (MDL). Analytical results for the September 20, 2005 sampling event of MW-9 indicated a benzene concentrations of 2.8 ug/L, below the NMWQCC groundwater standard of 10 ug/L. Reported BTEX concentrations were 8.73 ug/L, below the NMWQCC groundwater standards for benzene, toluene, ethylbenzene, and total xylenes (reference *Table 2*). A summary of groundwater analytical results is included as Table 2 and copies of the analytical results are included in Appendix A.

VII. Excavation and Soil SamplingActivities

Excavation and disposal of the remaining impacted soil commenced March 16, 2005 and continued through June 28, 2005. Approximately 24,500 cubic yards of material was excavated from the eastern and western excavations. Prior to disposal, excavated material was processed in a shaker to separate impacted soil from rock. Approximately 9,460 cubic yards of impacted soil was obtained after processing and was transported to C & C Landfarm for treatment. The remaining rock, approximately 15,000 cubic yards, is currently stockpiled on site.

On May 5, 2005, soil samples were collected from the eastern excavation floor and sidewalls and submitted to an independent laboratory for quantification of TPH and BTEX constituent concentrations. Analytical results indicated TPH concentrations in samples collected from EE Bottom SXP 1, EE SXP 6, EE SXP 7 and EE SXP 9 were in excess of remedial thresholds (reference *Table 5* and *Figure 19*). Excavation activities resumed in the areas that soil sample laboratory analyses indicated were in excess of remedial thresholds. (i.e., sample location EE Bottom SXP 1, EE SXP 6, EE SXP 7 and EE SXP 9). On May 17, 2005 soil samples were collected from the excavation and submitted to an independent laboratory for quantification of TPH and BTEX constituents.

On June 23, 2005, soil samples were collected from the western excavation and analyzed in the field for the presence of organic vapors utilizing a hand held photoionization detector (PID) equipped with a 9.8 electron Volt lamp. Field analyses indicated organic vapor concentrations ranged from 0.0 to 107 ppm. On July 5, 2005, soil samples WE N-2, WE N-3, WE N-5, WE W-3, WE W-5, WE W-9, WE W-13, WE W-17, WE S-1, WE S-3, WE E-2, WE E-4, WE E-6, WE E-12, WE B-1, WE B-2, WE B-3, WE B-4, WE B-5, WE B-6, WE M-B and WE M-E were collected and

placed in a laboratory provided container and submitted to an independent laboratory for quantification of TPH and BTEX constituent concentrations. On July 12, 2005, a soil sample was collected from the northern portion of the excavation (i.e., WE N-6) and submitted to an independent laboratory.

VIII. Soil Analytical Results

Soil samples collected on May 5 and May 17, 2005 from the eastern excavation, July 5 and July 12, 2005 from the western excavation and September 16, 2005 from the installation of groundwater monitor well MW-9 were submitted to an independent laboratory for quantification of BTEX constituents utilizing EPA 8021B method and TPH concentrations utilizing EPA 8015M method (reference *Figure 18* and *19* and *Appendix C*).

East Excavation

Analytical results for the soil samples collected from the eastern excavation on May 5, 2005 indicated benzene concentrations were ND at or above laboratory analytical methods. Reported BTEX concentrations ranged from ND to 0.323 mg/Kg, below the NMOCD remedial threshold of 50 mg/Kg. Reported TPH concentrations were below the NMOCD remedial threshold of 100 mg/Kg, with the exception of the samples EE Bottom SXP 1, EE SXP 6, EE SXP 7 and EE SXP 9. Supplementary soil samples were collected on May 17, 2005 after additional excavation in the areas where analytical results for samples collected on May 5, 2005 indicated contaminant concentrations in excess of NMOCD remedial guidelines. Analytical results for these samples indicated benzene concentrations were ND at or above laboratory method detection limits. Reported BTEX constituent concentrations ranged from ND to 0.0722 mg/Kg, below the NMOCD remedial threshold of 50 mg/Kg. TPH concentrations were reported to range from ND to 76.8 mg/Kg, below the NMOCD remedial threshold of 100 mg/Kg (reference *Table 5* and *Figure 19*).

West Excavation

Analytical results for the soil samples collected from the western excavation on July 5, 2005 indicated benzene concentrations were ND at or above laboratory analytical methods. Reported BTEX constituent concentrations ranged from ND to 0.36 mg/Kg, below the NMOCD remedial threshold of 50 mg/Kg. TPH concentrations were reported as ND, with the exception of samples WE W-9, WE E-4, WE M-E and WE M-B. Reported TPH concentrations in these samples ranged from 251 to 3,460 mg/Kg, in excess of the NMOCD remedial threshold of 100 mg/Kg. On July 12, 2005, a soil sample was collected from the northern portion of the west excavation (WE N-6) and submitted to an independent laboratory for quantification of TPH and BTEX constituents. Laboratory analyses indicated benzene concentrations were ND at or above laboratory MDL. Reported BTEX constituent concentrations were 0.046 mg/Kg, below the NMOCD remedial threshold of 50 mg/Kg. TPH concentrations were reported at 11,000 mg/Kg, in excess of the NMOCD remedial threshold of 100 mg/Kg (reference *Table 5* and *Figure 18*).

Soil Boring

An agreement reached between the NMOCD, Plains Pipeline, L.P. and the landowner indicated excavation activities could be terminated if contamination in groundwater and the soil north of the release area could be verified below NMOCD remedial thresholds. To verify groundwater was not impacted to the north of the release area, groundwater monitoring well MW-9 was installed to the north of the western excavation on September 16, 2005 (reference *Figure 16*). Soil samples were collected at 5-foot intervals during the advancement of the well boring. Groundwater samples were collected from MW-9 on September 20, 2005.

Analytical results for the soil samples collected during the advancement of the soil boring for groundwater monitoring well MW-9 on September 16, 2005 indicated TPH and BTEX constituent concentrations were ND at or above laboratory MDL (reference *Table 6*).

IX. Recommendations

Based on field monitoring and analytical results collected during the past year and analyzed in conjunction with data collected during the remediation and subsequent investigation, the following recommendations are made:

1) Continue to monitor the groundwater monitoring/recovery well network on a monthly basis for the potential presence of PSH in the groundwater monitoring well(s). In addition, collect groundwater level data from the monitoring/recovery well network on a monthly basis.

2) Based on historical low to ND contaminant levels in the monitoring/recovery well network, combined with the excavation of the impacted materials, it is recommended that the monitoring/recovery well network continue to be sampled on a quarterly basis through 2006 and the samples submitted for quantification of BTEX (reference *Table 4*). In the event analytical data indicates samples are below NMOCD remedial thresholds for all sampling events, the site will be recommended for closure.

3) Based on laboratory analytical results for soil samples obtained during excavation activities, and with the consensus of the NMOCD and the land owner, the excavation will be backfilled and the soil remediation portion of this release be closed during the first quarter of 2006. Following completion of backfilling activities, a separate soil closure report will be prepared and submitted to the NMOCD.

FIGURES

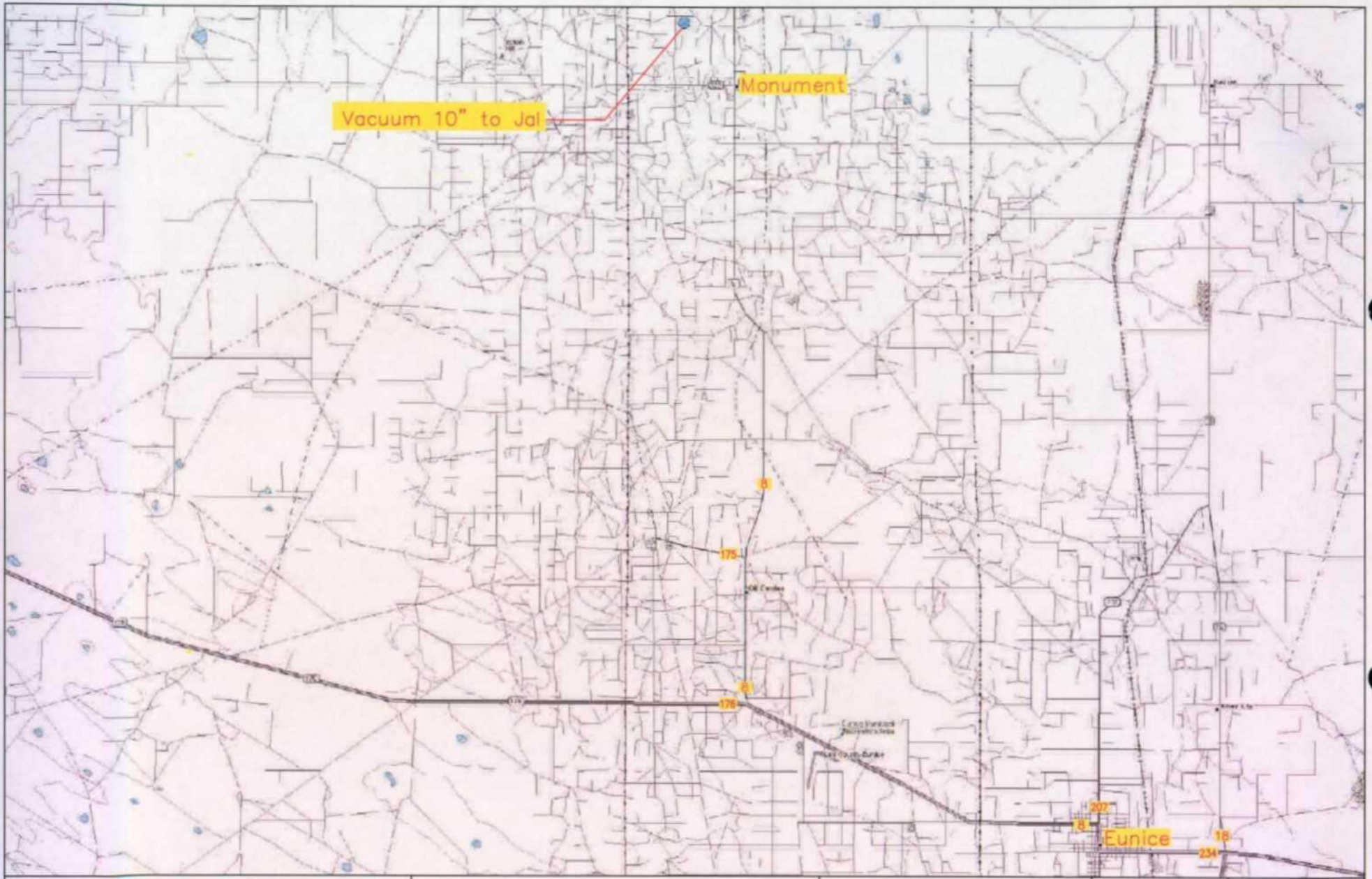

Figure 1
Area Map
Plains All American Pipeline, L.P.
Vacuum 10" to Jal

Lea County, New Mexico
SW 1/4 of the SW 1/4, Sec. 20, T19S, R37E
N 32° 38' 21.3" W 103° 16' 46.2"
Elevation: 3,627 feet amsl

DWG By: Iain Olness
March 2004

REVISED:
Feb. 2005

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Feet

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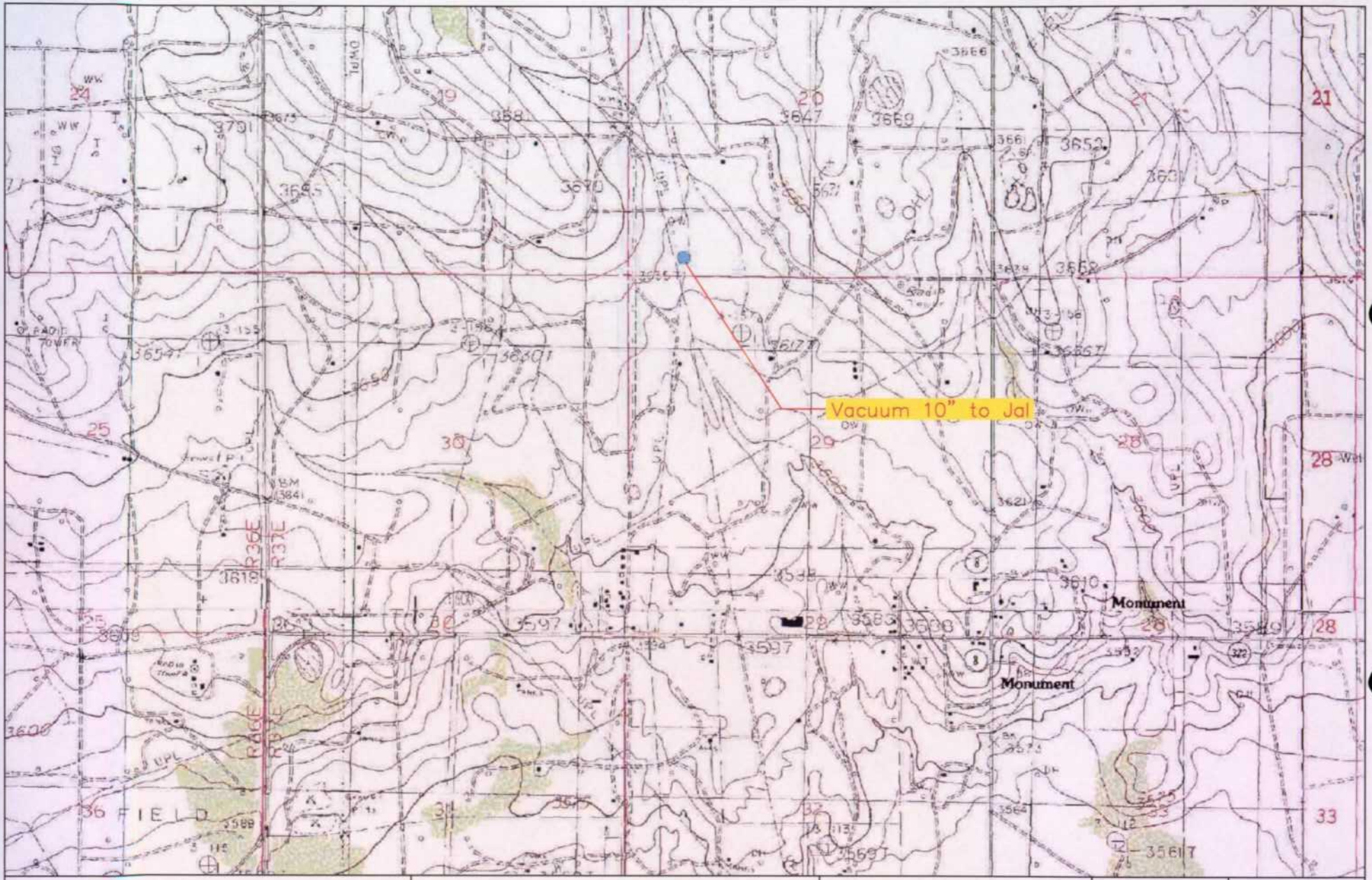

Figure 2 Site Location Map Plains All American Pipeline, L.P. Vacuum 10" to Jal	Lea County, New Mexico SW 1/4 of the SW 1/4, Sec. 20, T19S, R37E N 32° 38' 21.3" W 103° 16' 46.2" Elevation: 3,627 feet amsl	DWG By: Iain Olness March 2004	REVISED: Feb. 2005
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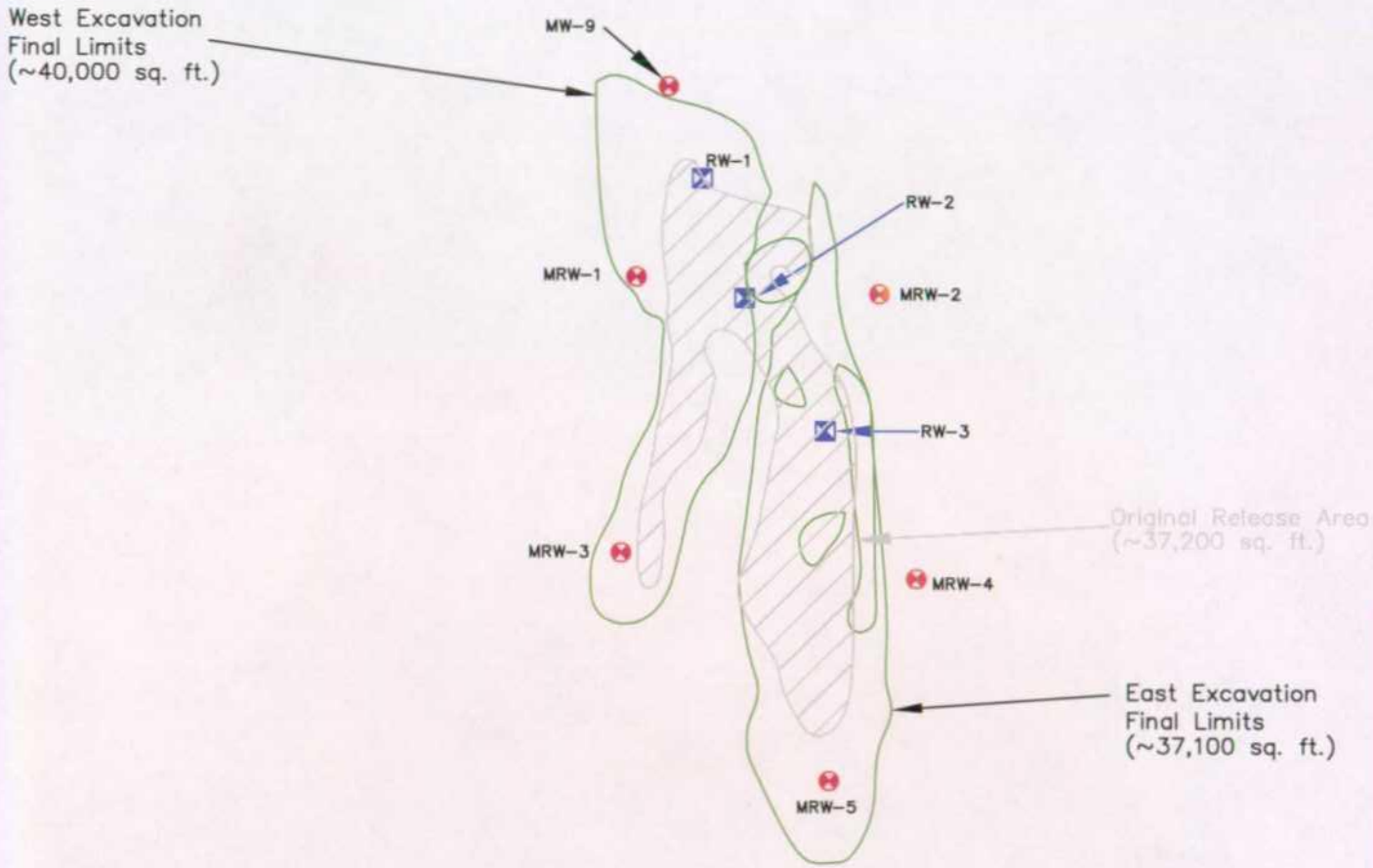

Figure 3 Site Map Plains All American Pipeline, L.P. Vacuum 10" to Jal	Lea County, New Mexico SW 1/4 of the SW 1/4, Sec. 20, T19S, R37E N 32° 38' 21.3" W 103° 16' 46.2" Elevation: 3,627 feet amsl	DWG By: Iain Olness March 2004 0 150 300 Feet	REVISED: SHEET 1 of 1	N

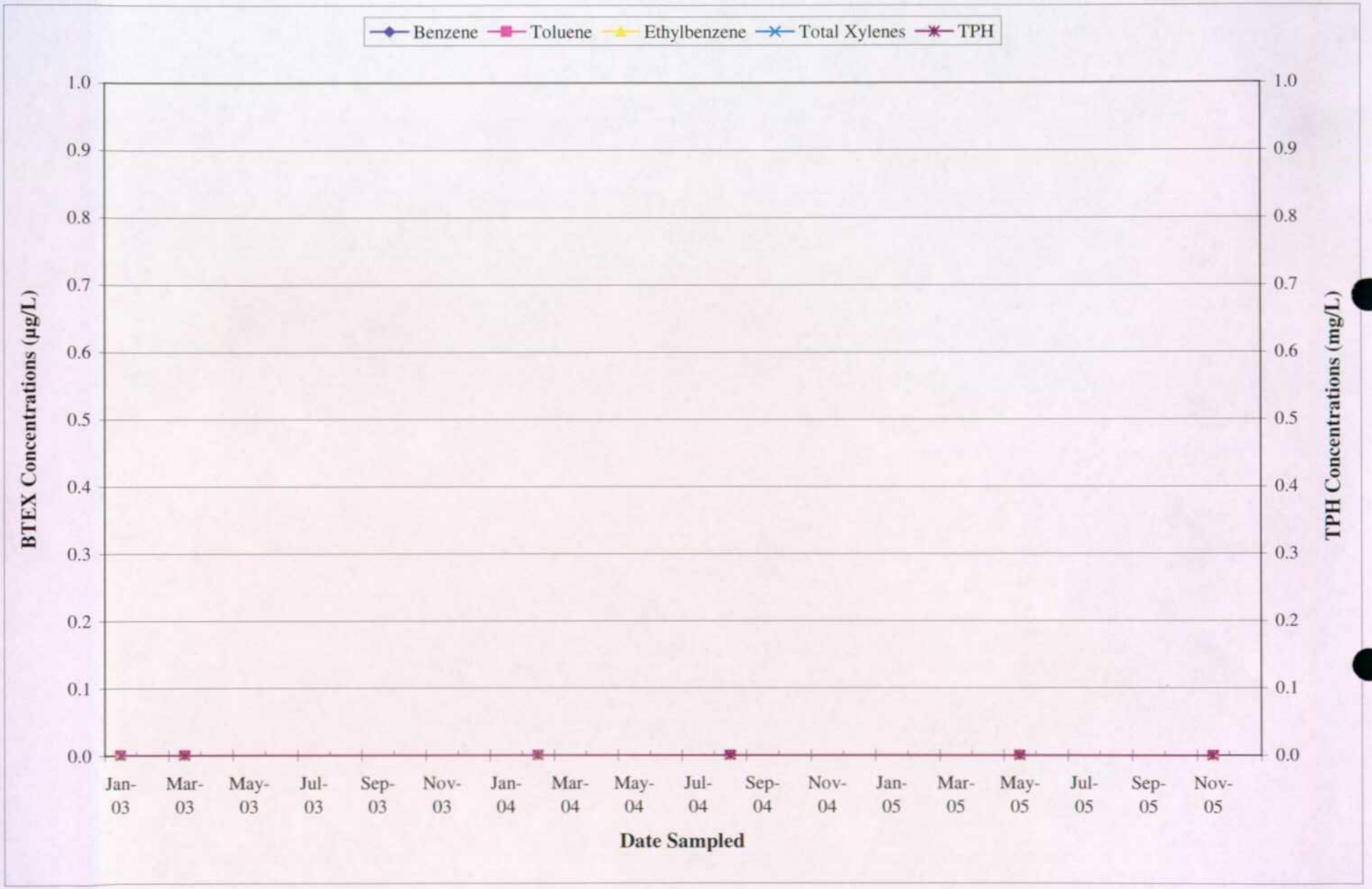

Figure 4: TPH and BTEX Concentrations in Groundwater Monitoring Well MRW-1 from 01/03/03 through 12/31/05, Plains All American Pipeline Vacuum 10" to Jal, Lea County, New Mexico.

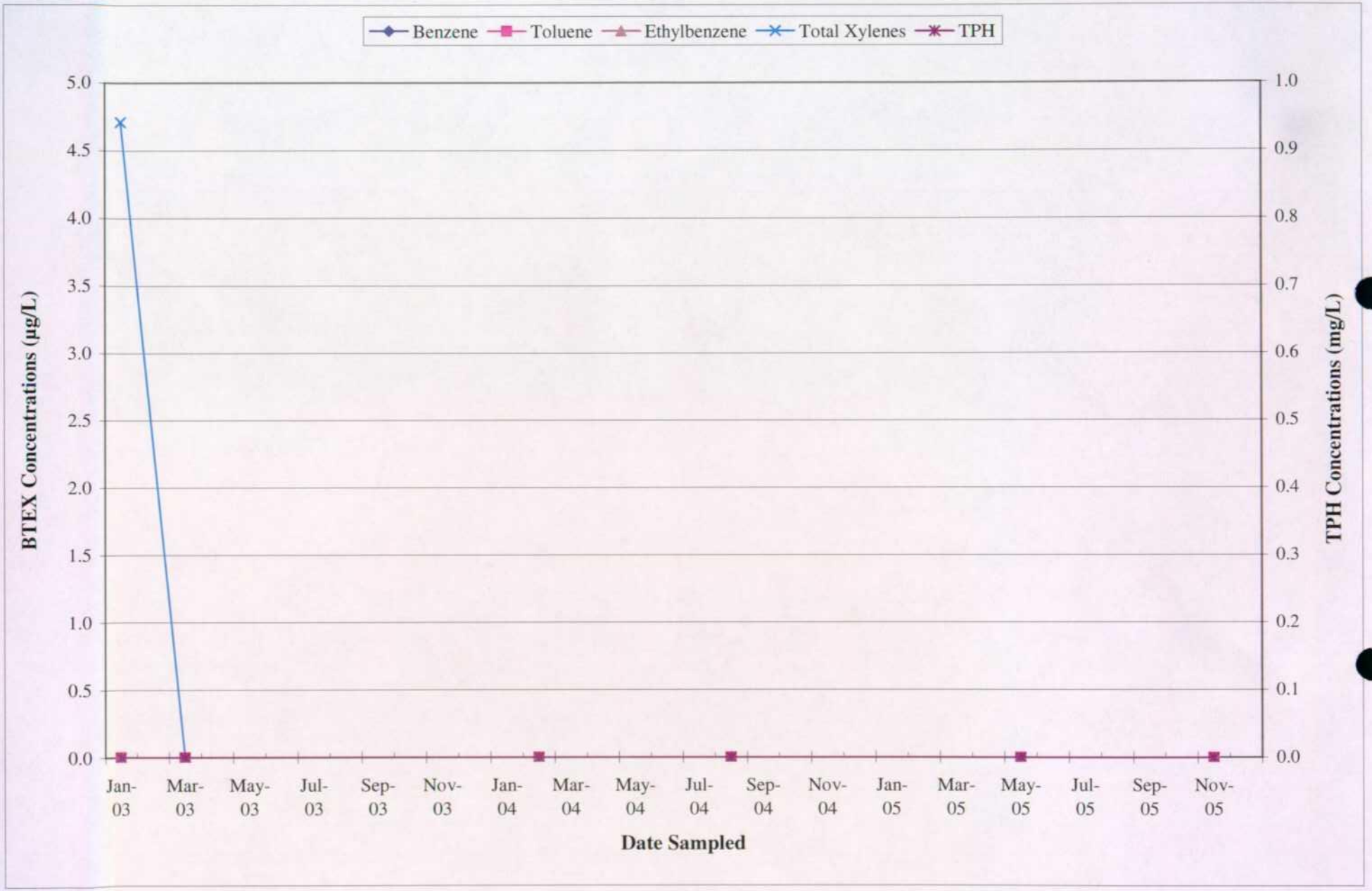

Figure 5: TPH and BTEX Concentrations in Groundwater Monitoring Well MRW-2 from 01/30/03 through 12/31/05, Plains All American Pipeline Vacuum 10" to Jal, Lea County, New Mexico.

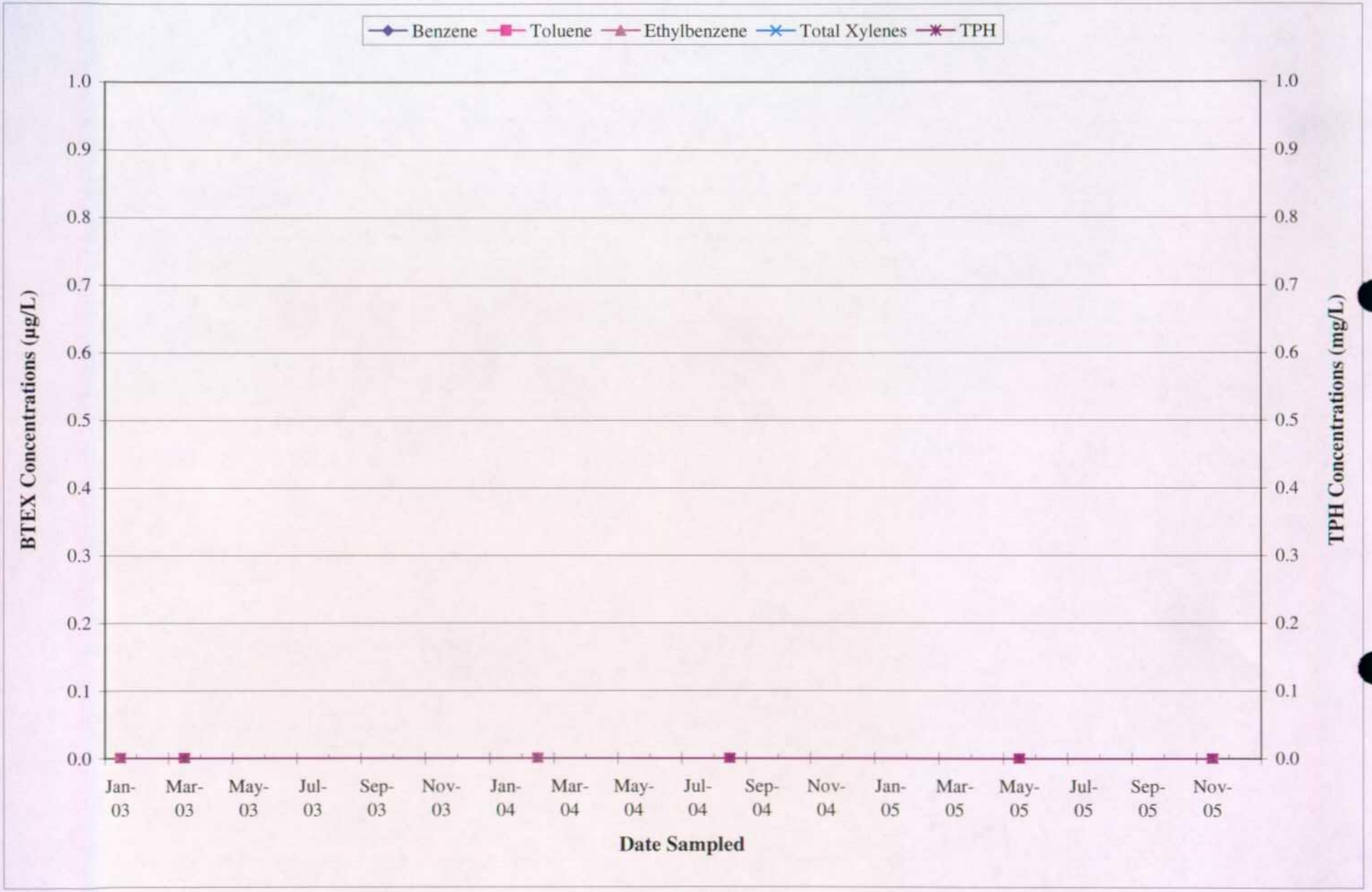

Figure 6: TPH and BTEX Concentrations in Groundwater Monitoring Well MRW-3 from 01/30/03 through 12/31/05, Plains All American Pipeline Vacuum 10" to Jal, Lea County, New Mexico.

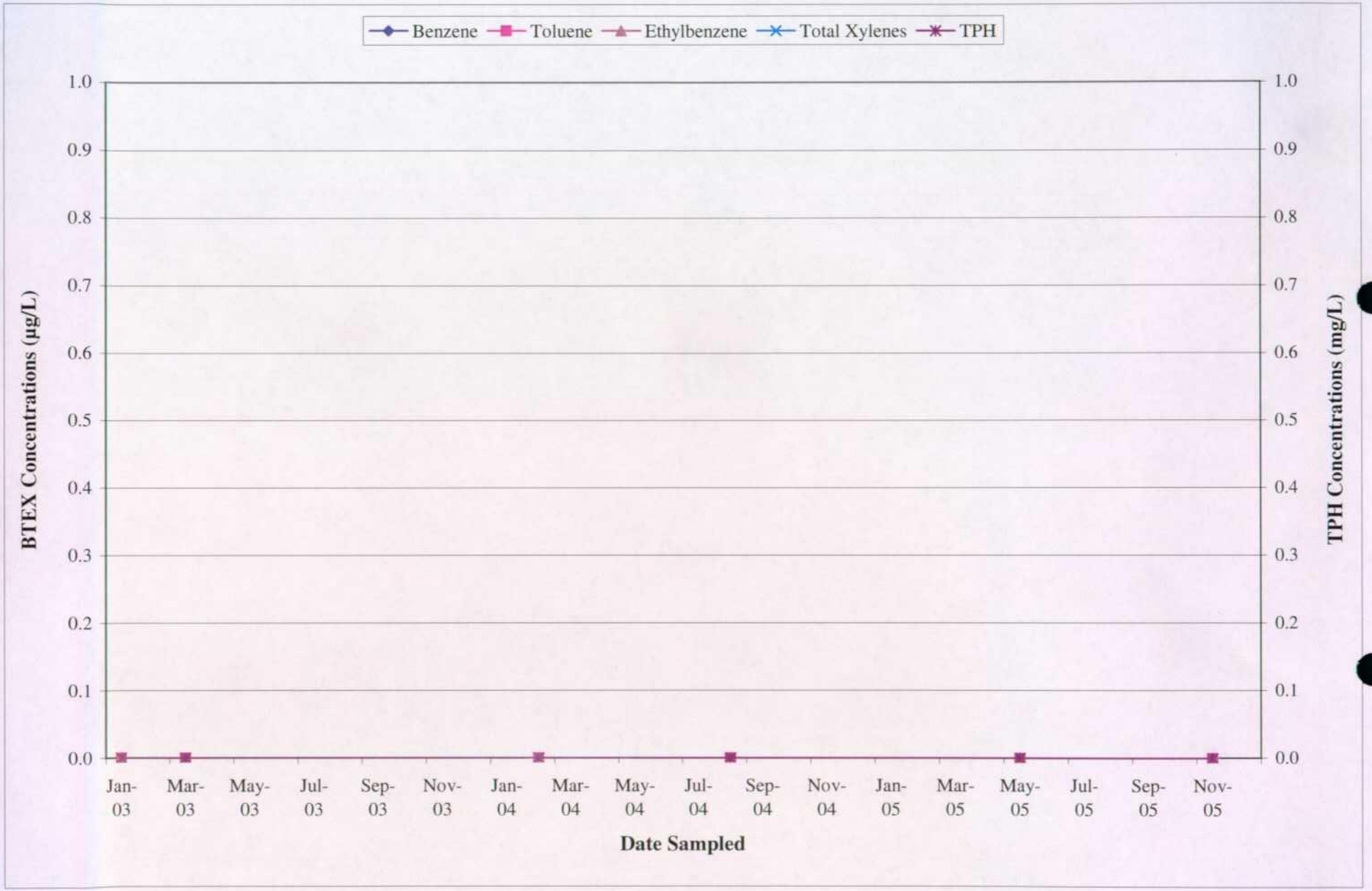

Figure 7: TPH and BTEX Concentrations in Groundwater Monitoring Well MRW-4 from 01/30/03 through 12/31/05, Plains All American Pipeline Vacuum 10" to Jal, Lea County, New Mexico.

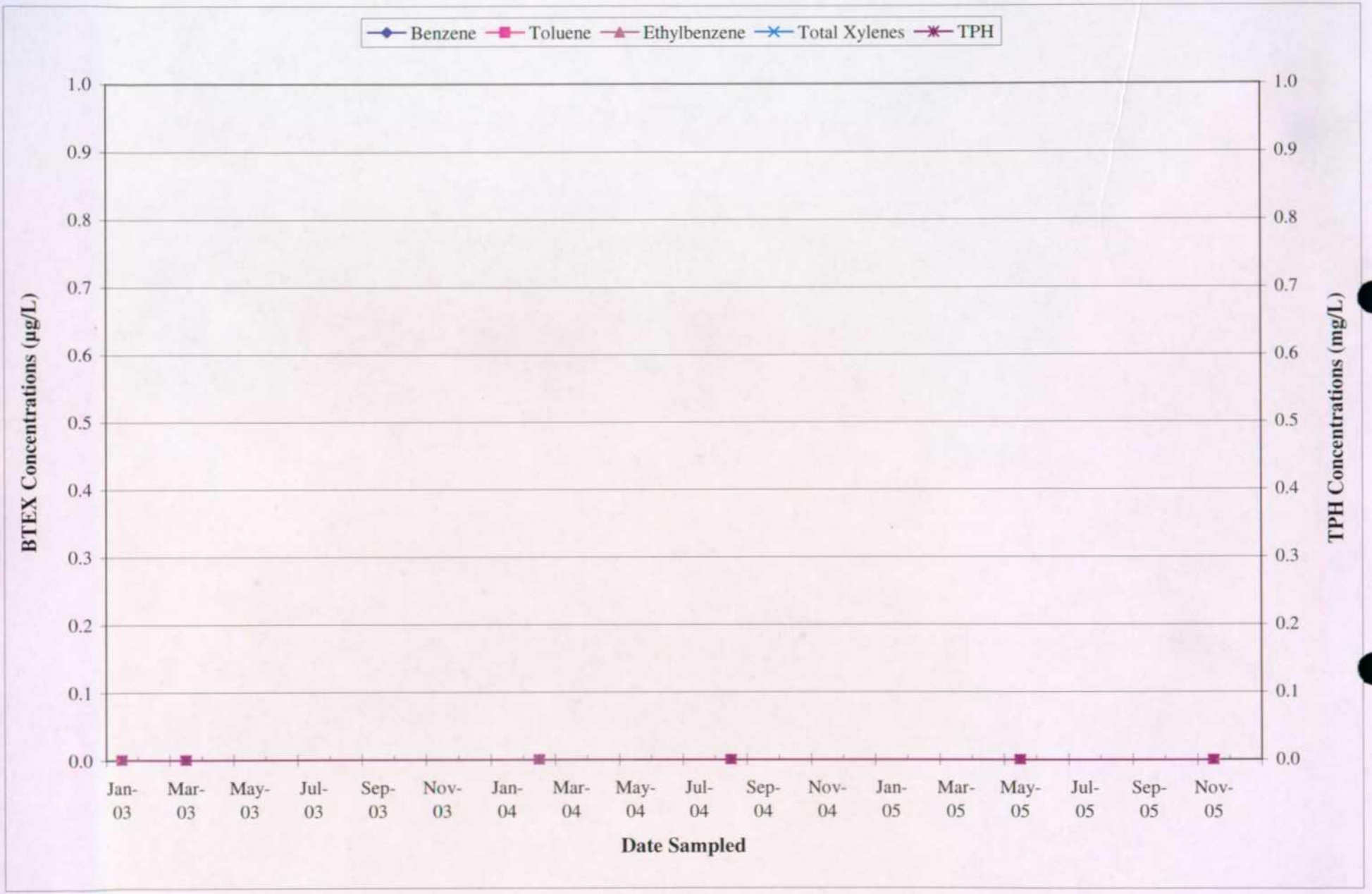

Figure 8: TPH and BTEX Concentrations in Groundwater Monitoring Well MRW-5 from 01/30/03 through 12/31/05, Plains All American Pipeline Vacuum 10" to Jal, Lea County, New Mexico.

Figure 9: TPH and BTEX Concentrations in Groundwater Recovery Well RW-1 from 01/30/03 through 12/31/05, Plains All American Pipeline Vacuum 10" to Jal, Lea County, New Mexico.

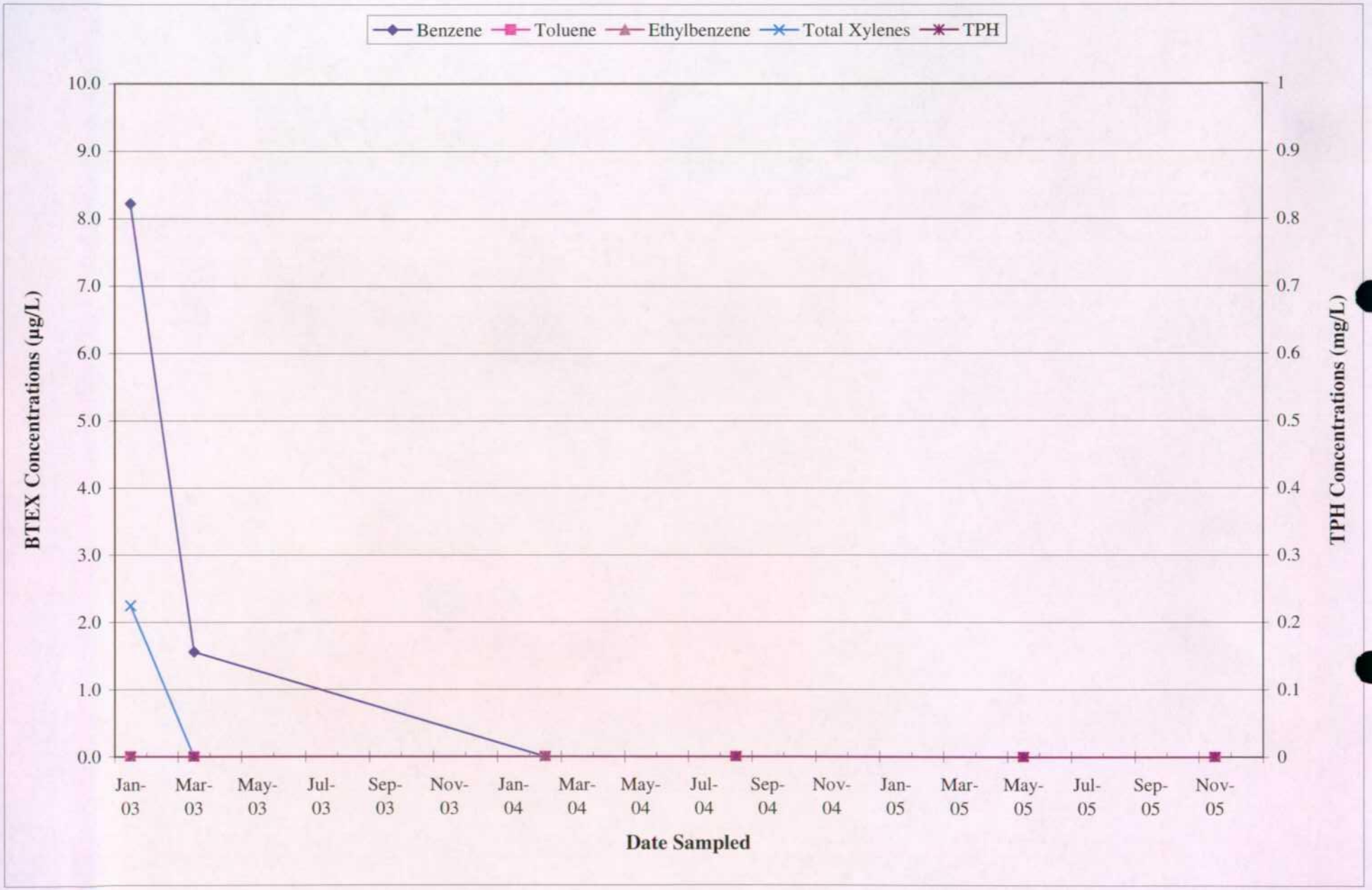

Figure 10: TPH and BTEX Concentrations in Groundwater Recovery Well RW-2 from 01/30/03 through 12/31/05, Plains all American Pipeline Vacuum 10" to Jal, Lea County, New Mexico.

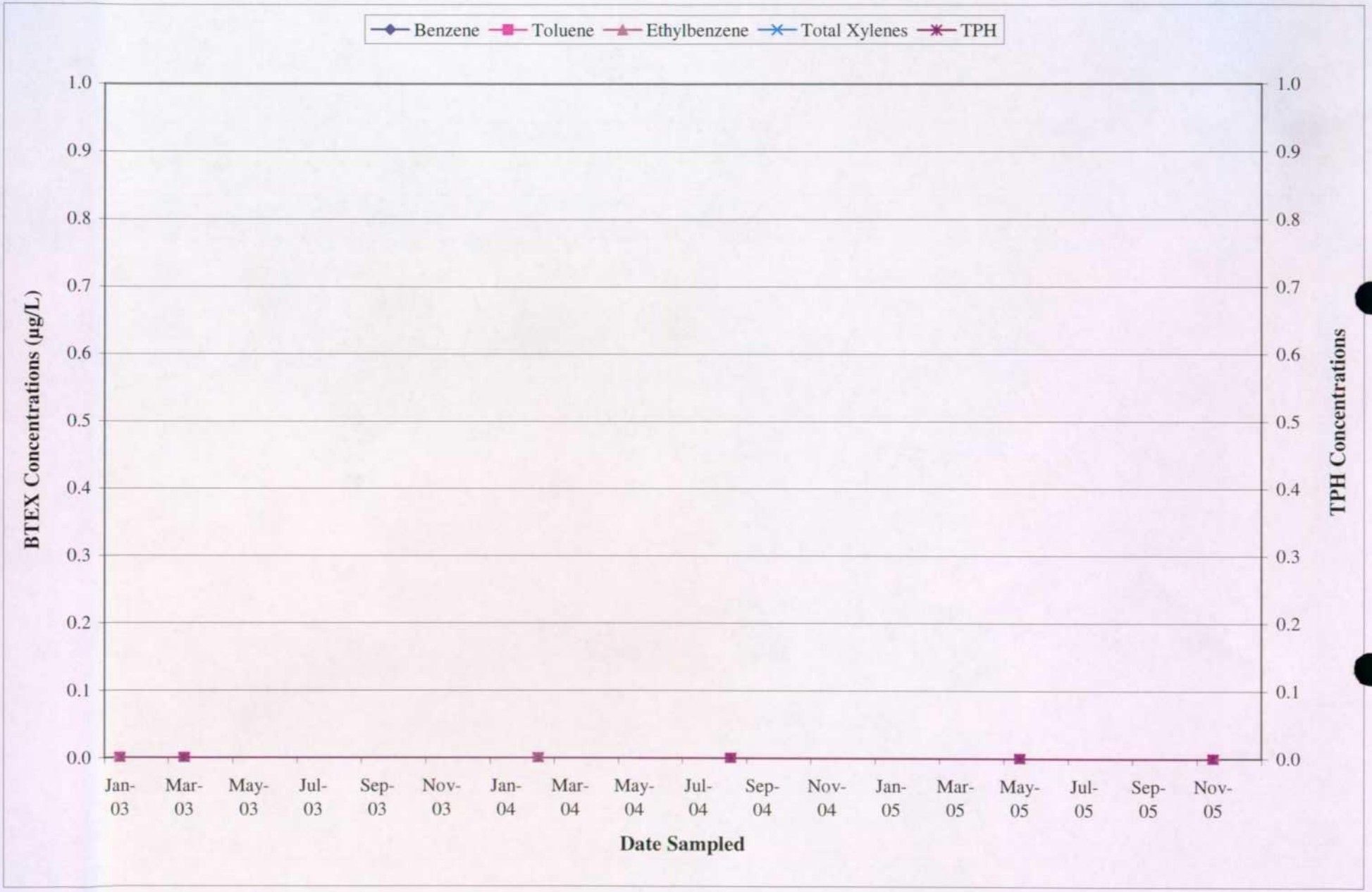

Figure 11: TPH and BTEX Concentrations in Groundwater Recovery Well RW-3 from 01/30/03 through 12/31/05, Plains All American Pipeline Vacuum 10" to Jal, Lea County, New Mexico.

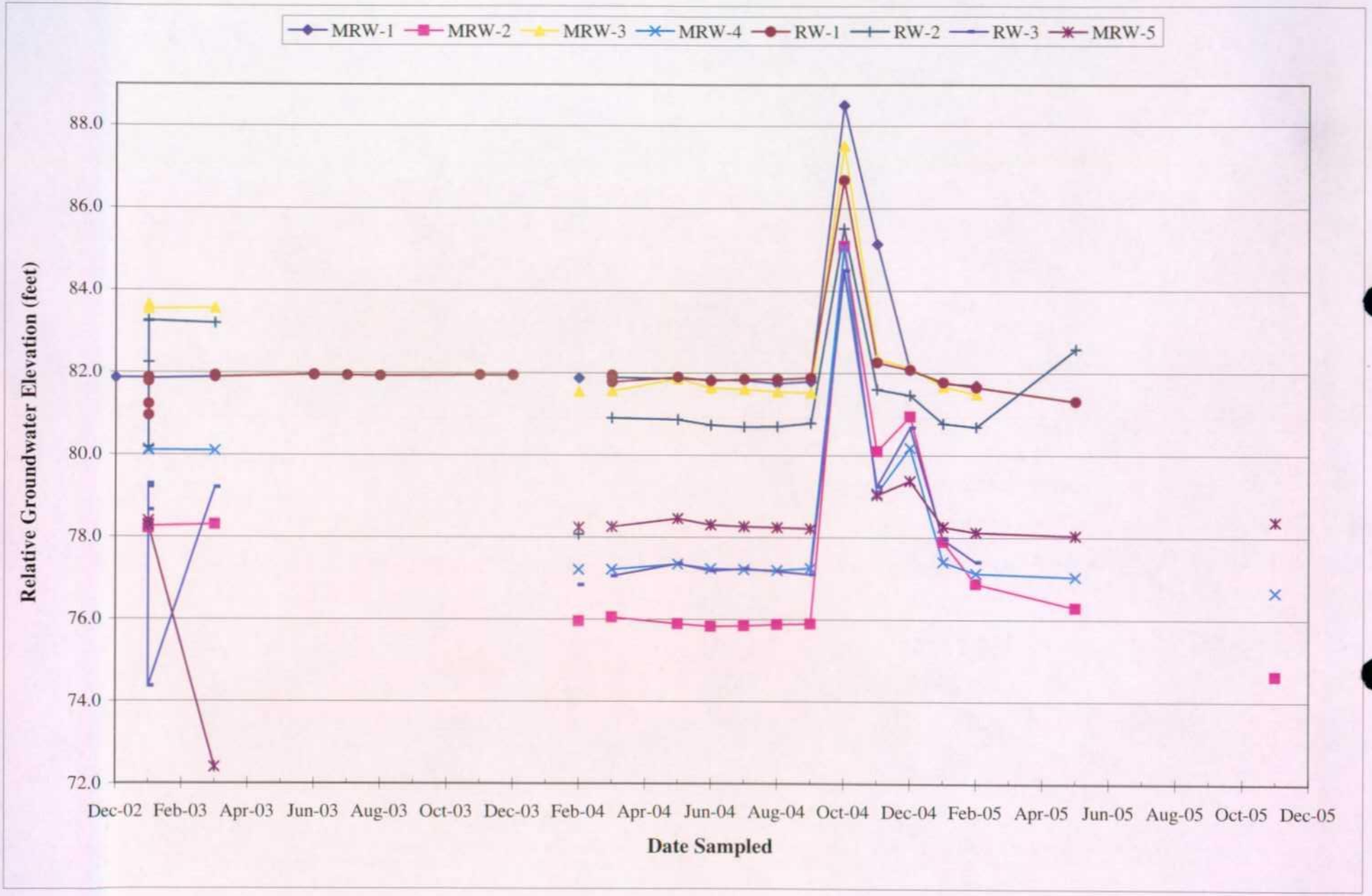

Figure 12: Hydrograph for Plains All American Pipeline Vacuum 10" to Jal Monitoring Well Network, Lea County, New Mexcio from 12/30/02 through 12/31/05.

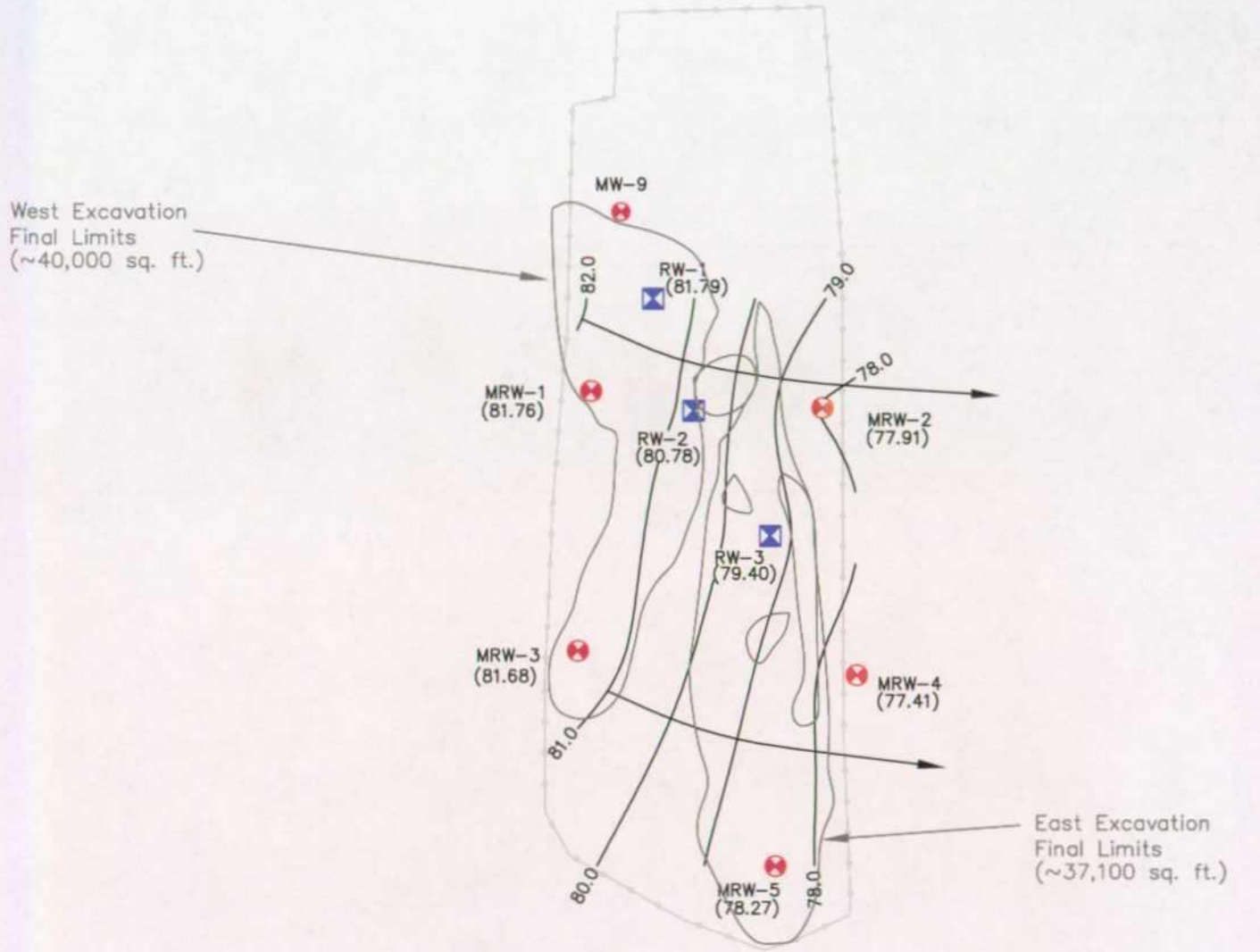

Figure 13 Groundwater Contour Map–01/14/05 Plains All American Pipeline, L.P. Vacuum 10" to Jal	Lea County, New Mexico SW 1/4 of the SW 1/4, Sec. 20, T19S, R37E N 32° 38' 21.3" W 103° 16' 46.2" Elevation: 3,627 feet amsl	DWG By: Iain Olness March 2004	REVISED: Jan. 2006	N
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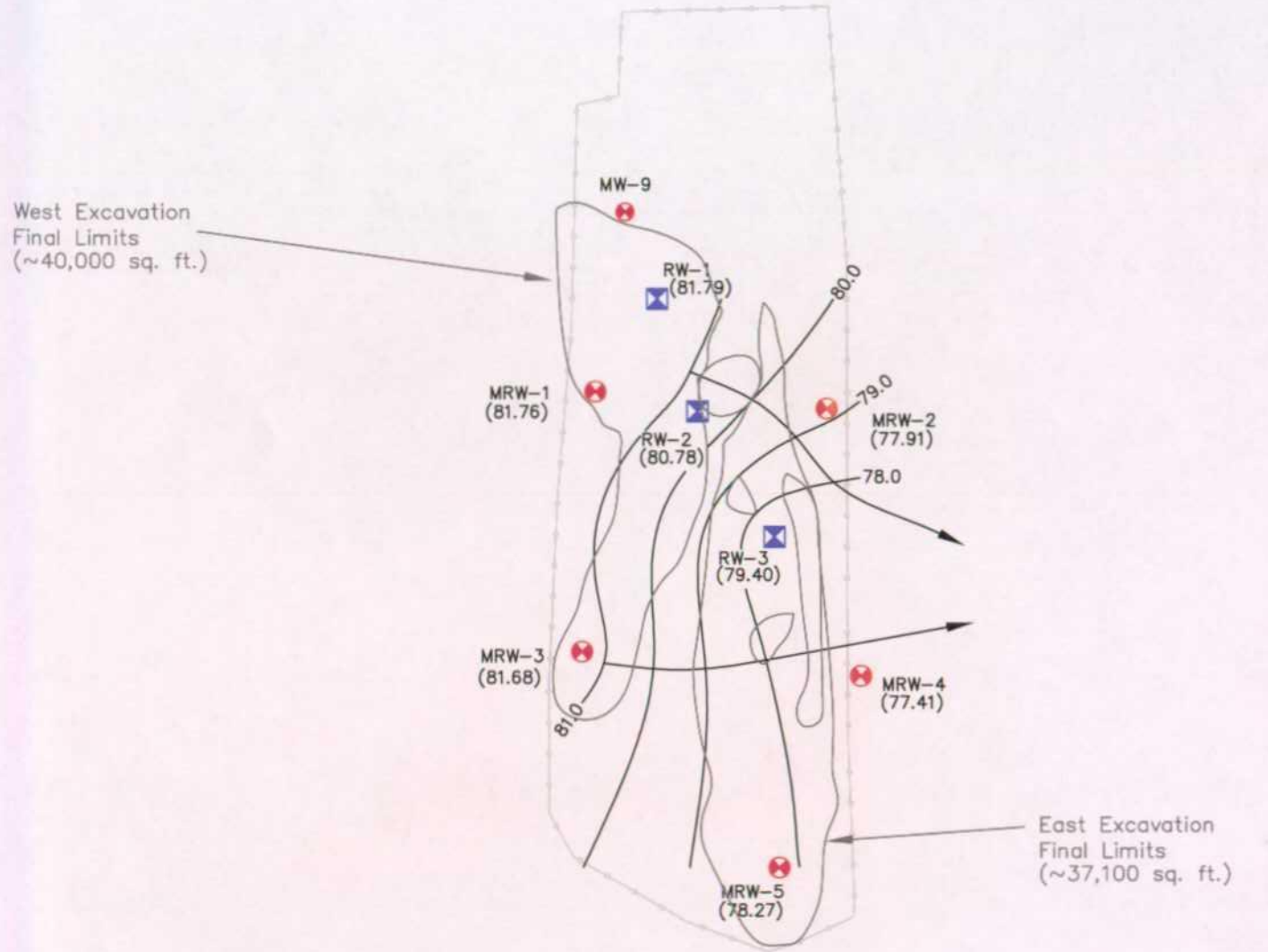

Figure 14 Groundwater Contour Map–02/21/05 Plains All American Pipeline, L.P. Vacuum 10" to Jal	Lea County, New Mexico SW 1/4 of the SW 1/4, Sec. 20, T19S, R37E N 32° 38' 21.3" W 103° 16' 46.2" Elevation: 3,627 feet amsl	DWG By: Iain Olness March 2004	REVISED: Jan. 2006	N
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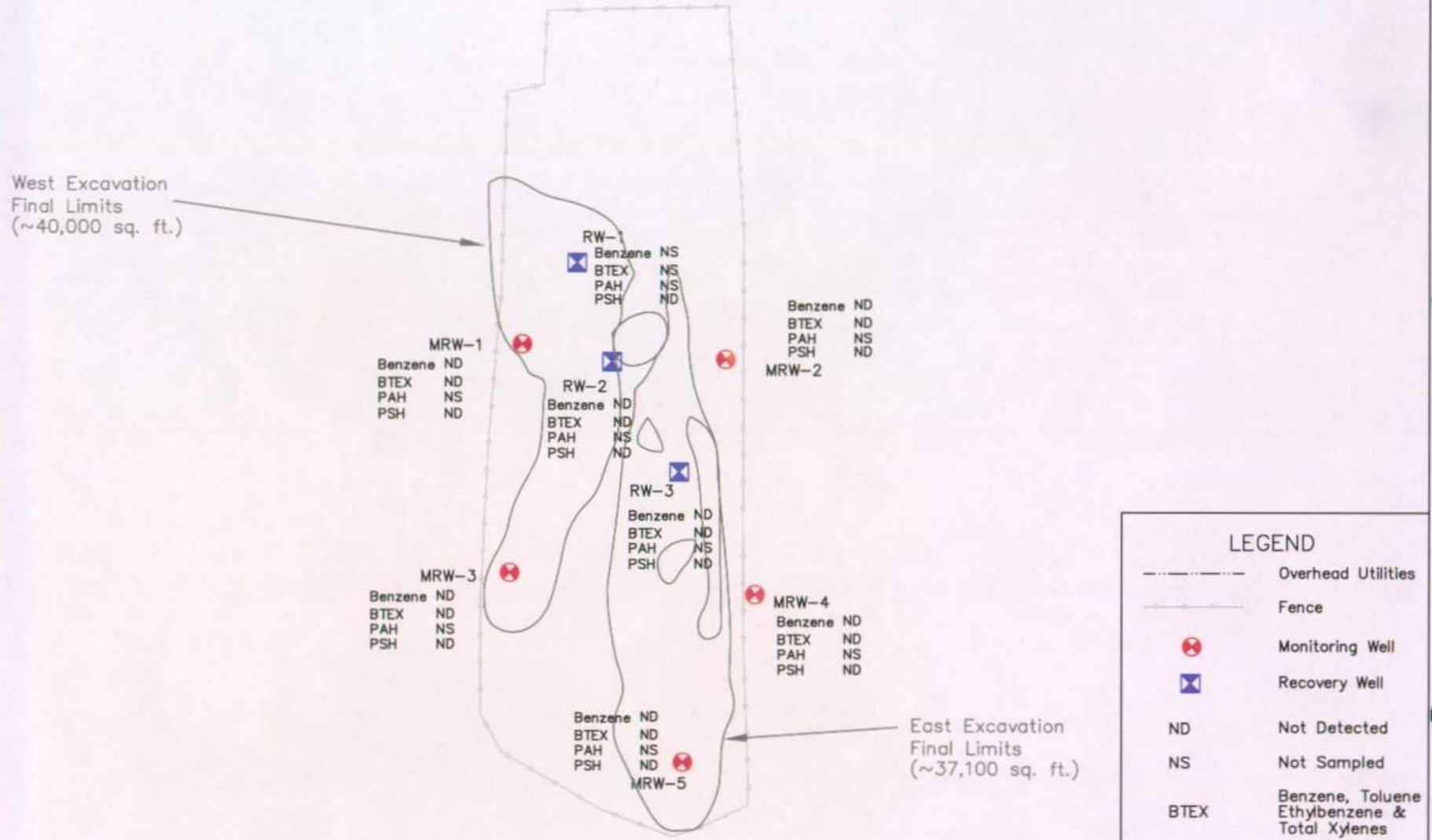
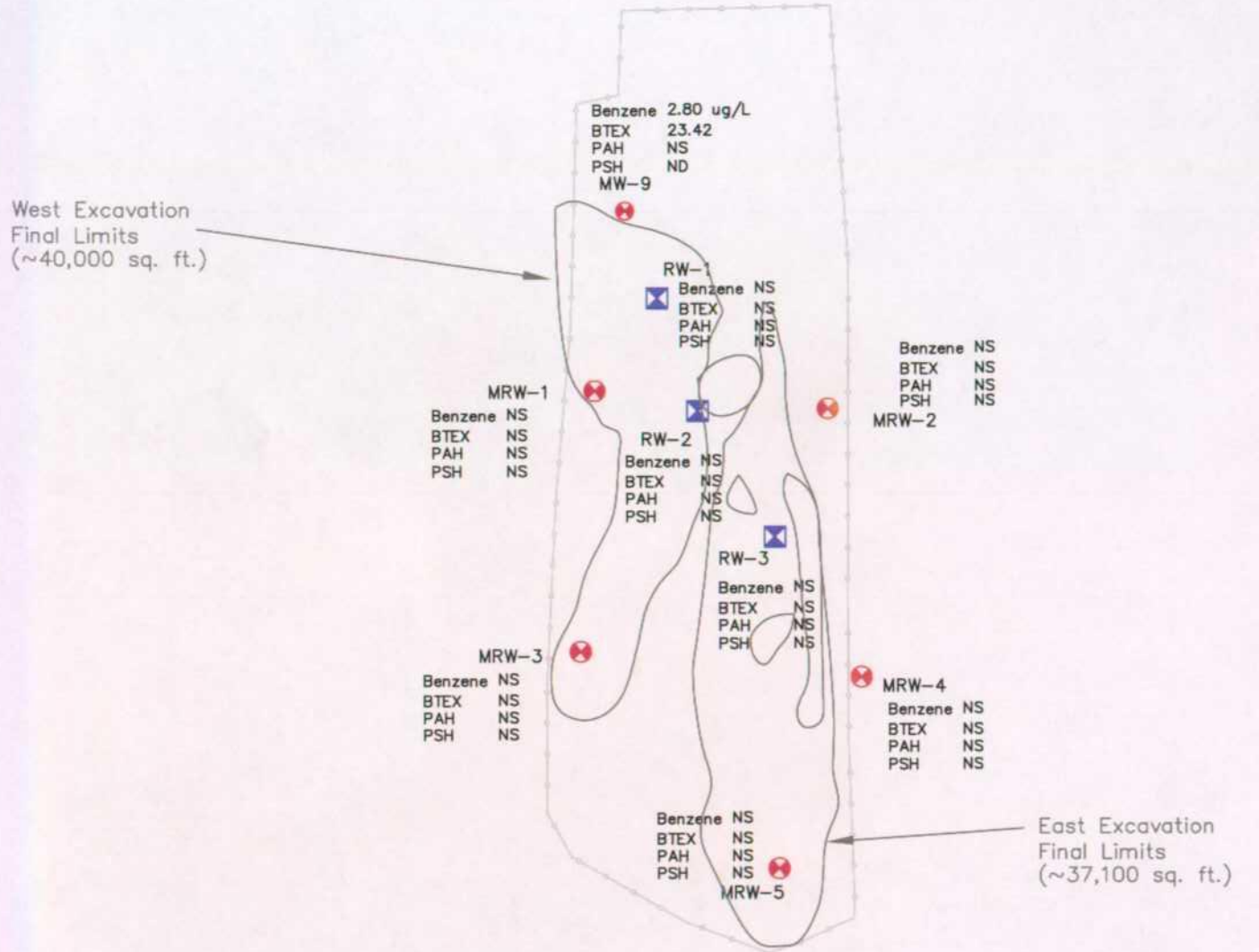


Figure 15 Contaminant Concentration Map – 05/09/05 Plains All American Pipeline, L.P. Vacuum 10" to Jal	Lea County, New Mexico SW 1/4 of the SW 1/4, Sec. 20, T19S, R37E N 32° 38' 21.3" W 103° 16' 46.2" Elevation: 3,627 feet amsl	DWG By: Iain Olness March 2004	REVISED: Jan. 2006	SHEET 1 of 1



LEGEND

—·—·—	Overhead Utilities
———	Fence
⊗	Monitoring Well
⊠	Recovery Well
ND	Not Detected
NS	Not Sampled
BTEX	Benzene, Toluene Ethylbenzene & Total Xylenes
PAH	Poly-Aromatic Hydrocarbons
PSH	Phase Separated Hydrocarbons

Figure 16
Contaminant Concentration Map – 09/20/05
Plains All American Pipeline, L.P.
Vacuum 10" to Jal

Lea County, New Mexico
SW 1/4 of the SW 1/4, Sec. 20, T19S, R37E
N 32° 38' 21.3" W 103° 16' 46.2"
Elevation: 3,627 feet amsl

DWG By: Iain Olness
March 2004

REVISED:
Jan. 2006

0 125 250
Feet

SHEET
1 of 1

N

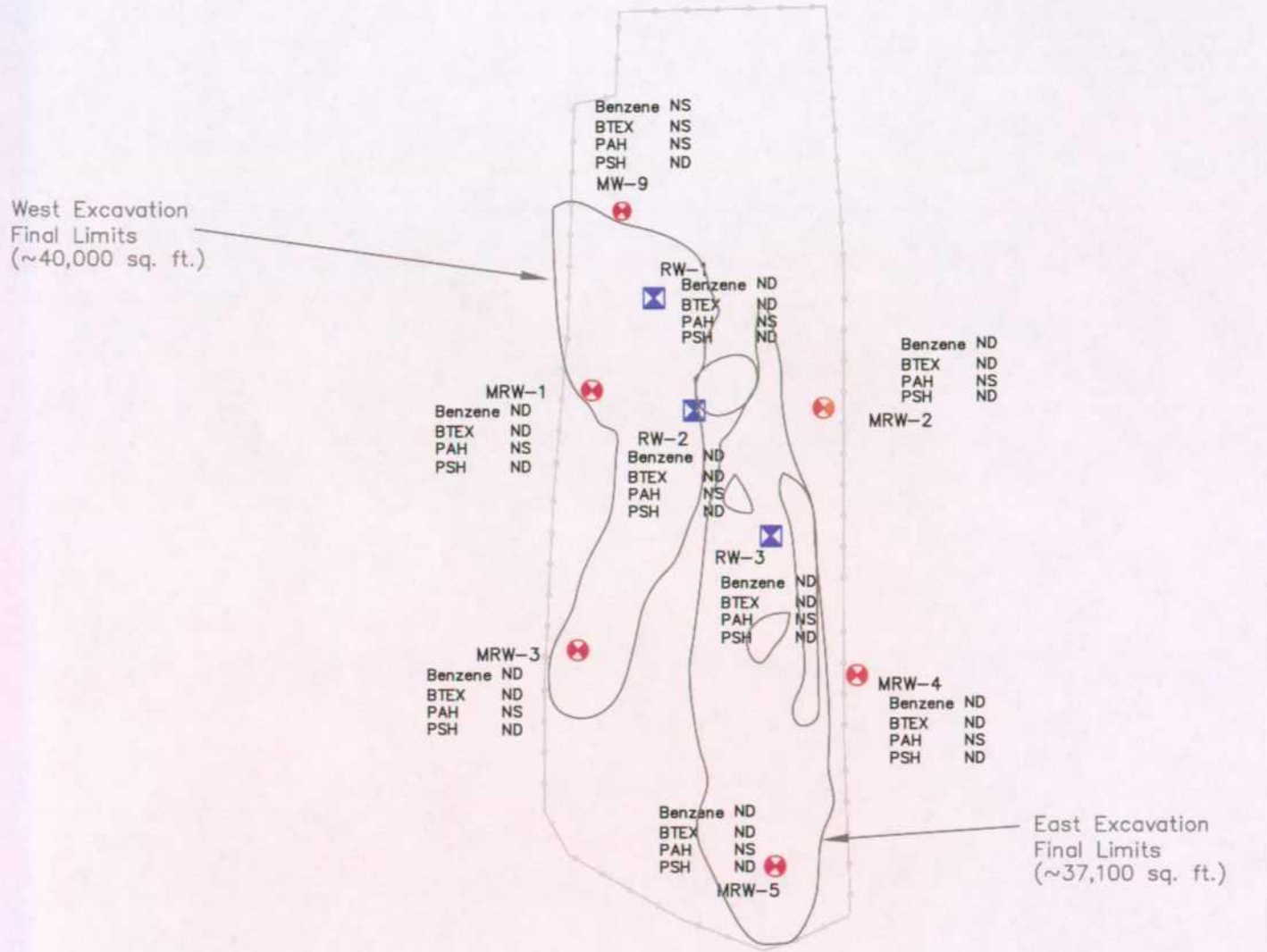


Figure 17 Contaminant Concentration Map – 11/18/05 and 11/22/05 Plains All American Pipeline, L.P. Vacuum 10" to Jal	Lea County, New Mexico SW 1/4 of the SW 1/4, Sec. 20, T19S, R37E N 32° 38' 21.3" W 103° 16' 46.2" Elevation: 3,627 feet amsl	DWG By: Iain Olness March 2004	REVISED: Jan. 2006	N
		0 125 250 Feet	SHEET 1 of 1	

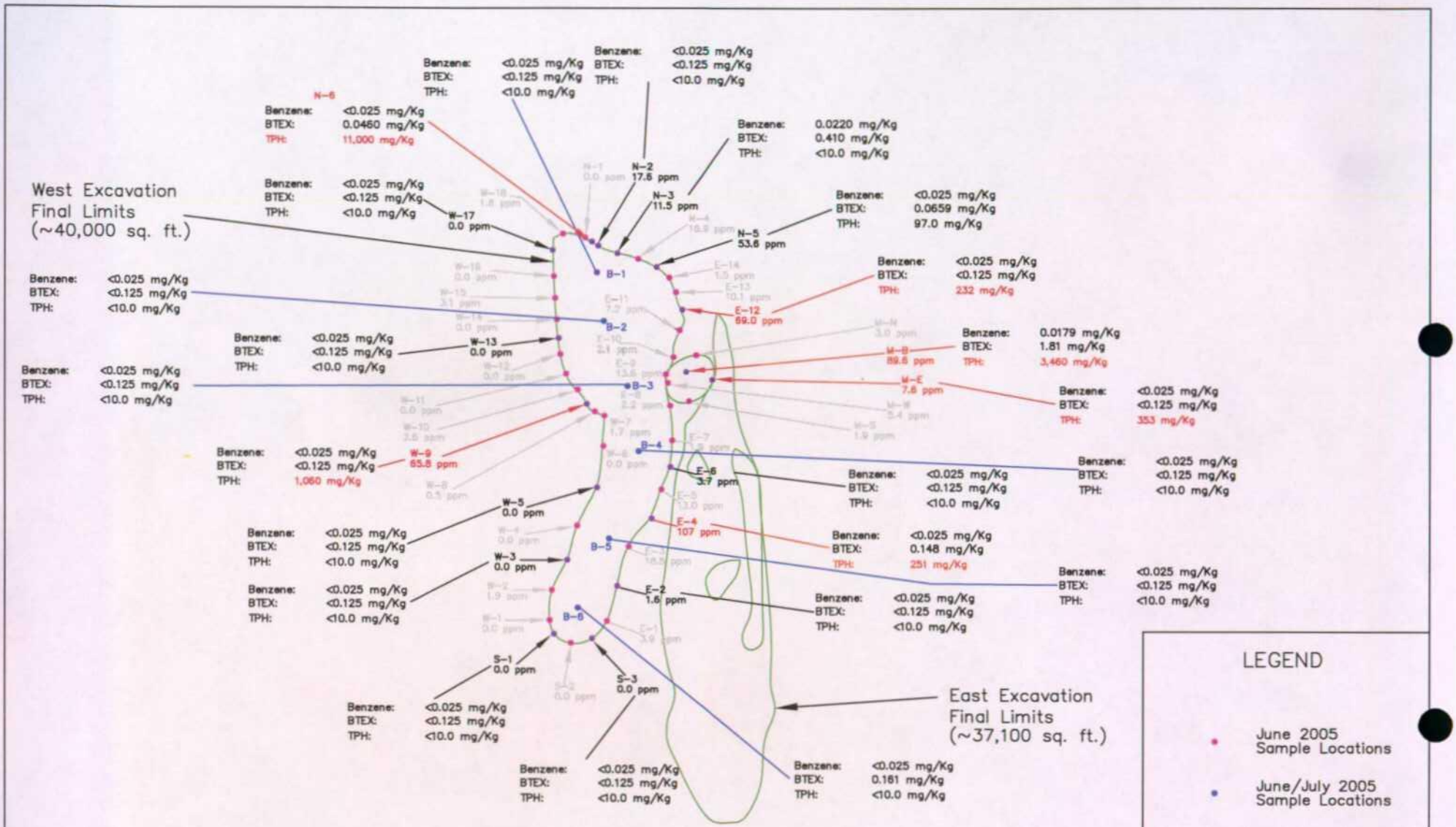


Figure 18 West Excavation Sampling Map Plains All American Pipeline, L.P. Vacuum 10" to Jal	Lea County, New Mexico SW 1/4 of the SW 1/4, Sec. 20, T19S, R37E N 32° 38' 21.3" W 103° 16' 46.2" Elevation: 3,627 feet amsl	DWG By: Iain Olness March 2004	REVISED: SHEET 1 of 1

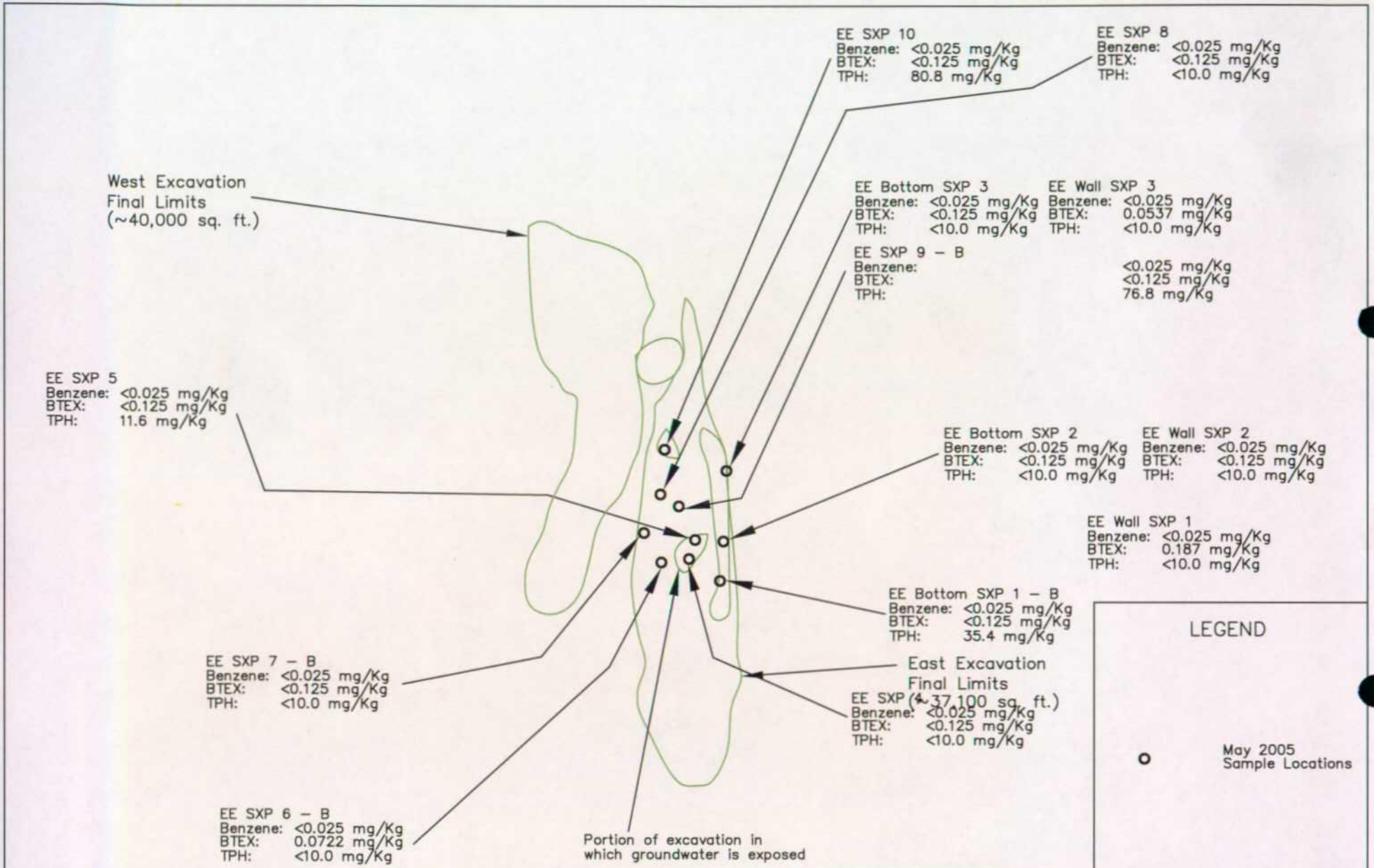


Figure 19
East Excavation Sampling Map
Plains All American Pipeline, L.P.
Vacuum 10" to Jal

Lea County, New Mexico
SW 1/4 of the SW 1/4, Sec. 20, T19S, R37E
N 32° 38' 21.3" W 103° 16' 46.2"
Elevation: 3,627 feet amsl

DWG By: Iain Olness
March 2004

REVISED:

0 150 300
Feet

SHEET
1 of 1

N

TABLES

TABLE 1

Relative Groundwater Elevations and Phase Separated Hydrocarbon Thicknesses

Vacuum 10-Inch to Jal - Ref #2002-10248

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)*	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)**	Phase Separated Hydrocarbon Thickness (feet)
MRW-1	12/30/02	100.83	18.96	18.97	81.87	0.01
	01/02/03		18.96	18.97	81.87	0.01
	01/06/03		18.95	18.96	81.88	0.01
	01/13/03		Sheen	18.96	81.87	Sheen
	01/28/03		--	18.95	81.88	--
	01/30/03		--	18.97	81.86	--
	03/03/03		Sheen	18.94	81.89	Sheen
	03/25/03					
	06/16/03					
	06/24/03					
	07/10/03					
	08/12/03					
	11/07/03					
	12/29/03					
	02/11/04		--	18.95	81.88	--
	03/03/04					
	03/24/04		--	18.93	81.90	--
	05/11/04		--	18.96	81.87	--
	06/11/04		--	18.98	81.85	--
	07/08/04		--	19.00	81.83	--
	08/17/04		--	19.07	81.76	--
	09/13/04		--	19.02	81.81	--
	10/06/04		--	12.32	88.51	--
	11/16/04		--	15.69	85.14	--
	12/10/04		--	18.74	82.09	--
	01/14/05		--	19.07	81.76	--
	02/21/05		--	19.12	81.71	--
	05/09/05	Not Gauged [NA]				
	11/18/05	Not Gauged [NA]				
	11/22/05	Not Gauged [NA]				
MRW-2	12/30/02					
	01/02/03	100.71	22.48	22.49	78.23	0.01
	01/06/03		--	22.50	78.21	--
	01/13/03		--	22.45	78.26	--
	01/28/03		--	22.42	78.29	--
	01/30/03		--	22.45	78.26	--
	03/03/03		--	22.41	78.30	--
	03/25/03					
	06/16/03					
	06/24/03					
	07/10/03					
	08/12/03					
	11/07/03					
	12/29/03					
	02/11/04		--	24.75	75.96	--
	03/03/04					
	03/24/04		--	24.65	76.06	--
	05/11/04		--	24.81	75.90	--
	06/11/04		--	24.87	75.84	--
	07/08/04		--	24.85	75.86	--
	08/17/04		--	24.82	75.89	--
	09/13/04		--	24.80	75.91	--
	10/06/04		--	15.61	85.10	--
	11/16/04		--	20.60	80.11	--

TABLE 1

Relative Groundwater Elevations and Phase Separated Hydrocarbon Thicknesses

Vacuum 10-Inch to Jal - Ref #2002-10248

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)*	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)**	Phase Separated Hydrocarbon Thickness (feet)
MRW-2 (cont.)	12/10/04		--	19.75	80.96	--
	01/14/05		--	22.80	77.91	--
	02/21/05		--	23.82	76.89	--
	05/09/05		--	24.41	76.30	--
	11/18/05	Not Gauged				
	11/22/05		--	26.07	74.64	--
MRW-3	12/30/02					
	01/02/03	100.38	16.83	16.84	83.54	0.01
	01/06/03		--	16.73	83.65	--
	01/13/03		--	16.80	83.58	--
	01/28/03		Sheen	16.82	83.56	--
	01/30/03		--	16.84	83.54	--
	03/03/03		--	16.82	83.56	--
	03/25/03					
	06/16/03					
	06/24/03					
	07/10/03					
	08/12/03					
	11/07/03					
	12/29/03					
	02/11/04		--	18.83	81.55	--
	03/03/04					
	03/24/04		--	18.81	81.57	--
	05/11/04		--	18.52	81.86	--
	06/11/04		--	18.73	81.65	--
	07/08/04		--	18.77	81.61	--
	08/17/04		--	18.83	81.55	--
	09/13/04		--	18.85	81.53	--
	10/06/04		--	12.85	87.53	--
	11/16/04		--	18.03	82.35	--
	12/10/04		--	18.24	82.14	--
	01/14/05		--	18.70	81.68	--
	02/21/05		--	18.88	81.50	--
	05/09/05	Not Gauged [NA]				
	11/18/05	Not Gauged [NA]				
	11/22/05	Not Gauged [NA]				
MRW-4	12/30/02					
	01/02/03	99.65	--	19.53	80.12	--
	01/06/03		--	19.55	80.10	--
	01/13/03		--	19.54	80.11	--
	01/28/03		--	19.52	80.13	--
	01/30/03		--	19.54	80.11	--
	03/03/03		--	19.55	80.10	--
	03/25/03					
	06/16/03					
	06/24/03					
	07/10/03					
	08/12/03					
	11/07/03					
	12/29/03					
	02/11/04		--	22.44	77.21	--
	03/03/04					
	03/24/04		--	22.43	77.22	--
	05/11/04		--	22.30	77.35	--

TABLE 1

Relative Groundwater Elevations and Phase Separated Hydrocarbon Thicknesses

Vacuum 10-Inch to Jal - Ref #2002-10248

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)*	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)**	Phase Separated Hydrocarbon Thickness (feet)
MRW-4 (cont.)	06/11/04		- -	22.41	77.24	- -
	07/08/04		- -	22.43	77.22	- -
	08/17/04		- -	22.45	77.20	- -
	09/13/04		- -	22.40	77.25	- -
	10/06/04		- -	14.60	85.05	- -
	11/16/04		- -	20.57	79.08	- -
	12/10/04		- -	19.46	80.19	- -
	01/14/05		- -	22.24	77.41	- -
	02/21/05		- -	22.52	77.13	- -
	05/09/05		- -	22.61	77.04	- -
	11/18/05	Not Gauged				
	11/22/05		- -	22.98	76.67	- -
MRW-5	12/30/02					
	01/02/03	91.27	- -	12.97	78.30	- -
	01/06/03		- -	12.98	78.29	- -
	01/13/03		- -	13.00	78.27	- -
	01/28/03		- -	12.88	78.39	- -
	01/30/03		- -	13.00	78.27	- -
	03/03/03		- -	18.87	72.40	- -
	03/25/03					
	06/16/03					
	06/24/03					
	07/10/03					
	08/12/03					
	11/07/03					
	12/29/03					
	02/11/04		- -	13.03	78.24	- -
	03/03/04					
	03/24/04		- -	13.01	78.26	- -
	05/11/04		- -	12.81	78.46	- -
	06/11/04		- -	12.96	78.31	- -
	07/08/04		- -	13.00	78.27	- -
	08/17/04		- -	13.02	78.25	- -
	09/13/04		- -	13.05	78.22	- -
	10/06/04	Not Gauged Due To Flooding				
	11/16/04		- -	12.23	79.04	- -
	12/10/04		- -	11.88	79.39	- -
	01/14/05		- -	13.00	78.27	- -
	02/21/05		- -	13.14	78.13	- -
	05/09/05		- -	13.22	78.05	- -
	11/18/05	Not Gauged				
	11/22/05		- -	12.88	78.39	- -
RW-1	12/30/02					
	01/02/03	100.00	- -	19.04	80.96	- -
	01/06/03		18.76	18.79	81.24	0.03
	01/13/03		18.20	18.30	81.79	0.10
	01/28/03		18.11	18.21	81.88	0.10
	01/30/03					

TABLE 1

Relative Groundwater Elevations and Phase Separated Hydrocarbon Thicknesses

Vacuum 10-Inch to Jal - Ref #2002-10248

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)*	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)**	Phase Separated Hydrocarbon Thickness (feet)
RW-1 (cont.)	03/03/03		18.05	18.20	81.94	0.15
	03/25/03		18.10	18.15	81.90	0.05
	06/16/03		18.04	18.05	81.96	0.01
	06/24/03		18.05	18.06	81.95	0.01
	07/10/03		18.06	18.07	81.94	0.01
	08/12/03		18.07	18.08	81.93	0.01
	11/07/03		18.04	18.10	81.95	0.06
	12/29/03		18.05	18.10	81.95	0.05
	02/11/04					
	03/03/04		18.04	18.10	81.95	0.06
	03/24/04		18.21	18.22	81.79	0.01
	05/11/04		18.09	18.11	81.91	0.02
	06/11/04		--	18.18	81.82	Sheen
	07/08/04		--	18.14	81.86	Sheen
	08/17/04		--	18.10	81.86	Sheen
	09/13/04		--	18.20	81.90	Sheen
	10/06/04		Skim	13.30	86.70	Sheen
	11/16/04		--	17.73	82.27	Sheen
	12/10/04		--	17.91	82.09	Sheen
	01/14/05		--	18.21	81.79	--
	02/21/05		--	18.33	81.67	--
	05/09/05		--	18.68	81.32	--
	11/18/05	Not Gauged [NA]				
	11/22/05	Not Gauged [NA]				
RW-2	12/30/02					
	01/02/03	99.27	17.02	17.03	82.25	0.01
	01/06/03		Sheen	19.08	80.19	Sheen
	01/13/03		--	16.01	83.26	--
	01/28/03		--	16.03	83.24	--
	01/30/03		--	16.01	83.26	--
	03/03/03		--	16.07	83.20	--
	03/25/03					
	06/16/03					
	06/24/03					
	07/10/03					
	08/12/03					
	11/07/03					
	12/29/03					
	02/11/04		--	21.20	78.07	--
	03/03/04					
	03/24/04		--	18.36	80.91	--
	05/11/04		--	18.40	80.87	--
	06/11/04		--	18.53	80.74	--
	07/08/04		--	18.57	80.70	--
	08/17/04		--	18.56	80.71	--
	09/13/04		--	18.48	80.79	--
	10/06/04		--	13.75	85.52	--
	11/16/04		--	17.66	81.61	--
	12/10/04		--	17.80	81.47	--
	01/14/05		--	18.49	80.78	--
	02/21/05		--	18.57	80.70	--
	05/09/05		--	16.68	82.59	--
	11/18/05	Not Gauged [NA]				
	11/22/05	Not Gauged [NA]				

TABLE 1

Relative Groundwater Elevations and Phase Separated Hydrocarbon Thicknesses

Vacuum 10-Inch to Jal - Ref #2002-10248

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)*	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)**	Phase Separated Hydrocarbon Thickness (feet)
RW-3	12/30/02					
	01/02/03	98.10	--	19.45	78.65	--
	01/06/03		--	18.89	79.21	--
	01/13/03		--	23.74	74.36	--
	01/28/03		--	18.81	79.29	--
	01/30/03		--	23.74	74.36	--
	03/03/03		--	18.90	79.20	--
	03/25/03					
	06/16/03					
	06/24/03					
	07/10/03					
	08/12/03					
	11/07/03					
	12/29/03					
	02/11/04		--	21.26	76.84	--
	03/03/04					
	03/24/04		--	21.04	77.06	--
	05/11/04		--	20.74	77.36	--
	06/11/04		--	20.91	77.19	--
	07/08/04		--	20.86	77.24	--
	08/17/04		--	20.92	77.18	--
	09/13/04		--	21.00	77.10	--
	10/06/04		--	13.60	84.50	--
	11/16/04		--	18.85	79.25	--
	12/10/04		--	17.42	80.68	--
	01/14/05		--	20.14	77.96	--
	02/21/05		--	20.69	77.41	--
	05/09/05	Not Gauged [NA]				
	11/18/05	Not Gauged [NA]				
	11/22/05	Not Gauged [NA]				
MW-9	01/14/05					
	02/21/05					
	05/09/05	Well installed 9/16/05; Casing elevation not surveyed				
	09/20/06			27.60		
	11/28/05	Not Gauged				
	11/22/05	Not Gauged				

Blank cells indicate well was not gauged

-- = Not Detected

Gray shaded cells indicate well was gauged

Yellow shaded cells indicate samples were collected

[NA] Not Applicable; well casing removed above ground surface due to excavation activities

TABLE 2

Summary of Groundwater Analytical Results - BTEX and TPH

Vacuum 10-Inch to Jal - Ref #2002-10248

Monitor Well Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m,p-Xylenes (µg/L)	o-Xylene (µg/L)	Total Xylenes (µg/L)	TPH (as gasoline) (mg/L)	TPH (as diesel) (mg/L)	Total TPH (mg/L)
MRW-1	30-Jan-03	<1	<1	<1	<1	<1	<2	<5	<5	<10
	3-Mar-03	<1	<1	<1	<1	<1	<2	NA	NA	NA
	11-Feb-04	<1	<1	<1	<2	<1	<3	NA	NA	NA
	17-Aug-04	<1	<1	<1	<2	<1	<3	NA	NA	NA
	9-May-05	<1	<1	<1	<2	<1	<3	NA	NA	NA
	22-Nov-05	<1	<1	<1	<2	<1	<3	NA	NA	NA
MRW-2	30-Jan-03	<1	<1	<1	<1	4.71	4.71	<5	<5	<10
	3-Mar-03	<1	<1	<1	<1	<1	<2	NA	NA	NA
	11-Feb-04	<1	<1	<1	<2	<1	<3	NA	NA	NA
	17-Aug-04	<1	<1	<1	<2	<1	<3	NA	NA	NA
	9-May-05	<1	<1	<1	<2	<1	<3	NA	NA	NA
	18-Nov-05	<1	<1	<1	<2	<1	<3	NA	NA	NA
MRW-3	30-Jan-03	<1	<1	<1	<1	<1	<2	<5	<5	<10
	3-Mar-03	<1	<1	<1	<1	<1	<2	NA	NA	NA
	11-Feb-04	<1	<1	<1	<2	<1	<3	NA	NA	NA
	17-Aug-04	<1	<1	<1	<2	<1	<3	NA	NA	NA
	9-May-05	<1	<1	<1	<2	<1	<3	NA	NA	NA
	18-Nov-05	<1	<1	<1	<2	<1	<3	NA	NA	NA
MRW-4	30-Jan-03	<1	<1	<1	<1	<1	<2	<5	<5	<10
	3-Mar-03	<1	<1	<1	<1	<1	<2	NA	NA	NA
	11-Feb-04	<1	<1	<1	<2	<1	<3	NA	NA	NA
	17-Aug-04	<1	<1	<1	<2	<1	<3	NA	NA	NA
	9-May-05	<1	<1	<1	<2	<1	<3	NA	NA	NA
	18-Nov-05	<1	<1	<1	<2	<1	<3	NA	NA	NA
MRW-5	30-Jan-03	<1	<1	<1	<1	<1	<2	<5	<5	<10
	3-Mar-03	<1	<1	<1	<1	<1	<2	NA	NA	NA
	11-Feb-04	<1	<1	<1	<2	<1	<3	NA	NA	NA
	17-Aug-04	<1	<1	<1	<2	<1	<3	NA	NA	NA
	9-May-05	<1	<1	<1	<2	<1	<3	NA	NA	NA
	18-Nov-05	<1	<1	<1	<2	<1	<3	NA	NA	NA
RW-1	30-Jan-03	Not sampled due to the presence of phase separated hydrocarbons								
	3-Mar-03	Not sampled due to the presence of phase separated hydrocarbons								
	11-Feb-04	Not sampled due to the presence of phase separated hydrocarbons								
	17-Aug-04	Not sampled due to the presence of phase separated hydrocarbons								
	9-May-05	Not sampled								
	22-Nov-05	<1	<1	<1	<2	<1	<3	NA	NA	NA

TABLE 2

Summary of Groundwater Analytical Results - BTEX and TPH

Vacuum 10-Inch to Jal - Ref #2002-10248

Monitor Well Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m,p-Xylenes (µg/L)	o-Xylene (µg/L)	Total Xylenes (µg/L)	TPH (as gasoline) (mg/L)	TPH (as diesel) (mg/L)	Total TPH (mg/L)
RW-2	30-Jan-03	8.22	<1	<1	1.11	1.14	2.25	<5	<5	<10
	3-Mar-03	1.56	<1	<1	<1	<1	<2	NA	NA	NA
	11-Feb-04	<1	<1	<1	<2	<1	<3	NA	NA	NA
	17-Aug-04	<1	<1	<1	<2	<1	<3	NA	NA	NA
	9-May-05	<1	<1	<1	<2	<1	<3	NA	NA	NA
	22-Nov-05	<1	<1	<1	<2	<1	<3	NA	NA	NA
RW-3	30-Jan-03	<1	<1	<1	<1	<1	<2	<5	<5	<10
	3-Mar-03	<1	<1	<1	<1	<1	<2	NA	NA	NA
	11-Feb-04	<1	<1	<1	<2	<1	<3	NA	NA	NA
	17-Aug-04	<1	<1	<1	<2	<1	<3	NA	NA	NA
	9-May-05	<1	<1	<1	<2	<1	<3	NA	NA	NA
	18-Nov-05	<1	<1	<1	<2	<1	<3	NA	NA	NA
MW-9	30-Jan-03									
	3-Mar-03									
	11-Feb-04									
	17-Aug-04									
	9-May-05	Monitor well installed 9-16-05								
	20-Sep-05	2.8	8.54	3.35	6.5	2.23	8.73	NA	NA	NA
	18-Nov-05	Not Sampled								
NMOCD Remedial Thresholds		10	750	750			620			

[1] *Bolded values are in excess of the NMOCD Remediation Thresholds*

[2] *NA : Not Analyzed*

[3] *NS : Not Sampled*

TABLE 3

Summary of Groundwater Analytical Results - Poly-Aromatic Hydrocarbons (PAH)

Vacuum 10-Inch to Jal - Ref. # 2002-10248

Monitor Well ID	Date	Napthalene (µg/L)	Acenapthylene (µg/L)	Acenapthene (µg/L)	Flourene (µg/L)	Phenanthrene (µg/L)	Anthracene (µg/L)	Fluoranthene (µg/L)	Pyrene (µg/L)	Benzo[a]-anthracene (µg/L)	Chrysene (µg/L)	Benzo[b]-fluoranthene (µg/L)	Benzo[j,k]-fluoranthene (µg/L)	Benzo[a]-pyrene (µg/L)	Indeno[1,2,3-cd]-pyrene (µg/L)	Dibenz[a,h]-anthracene (µg/L)	Benzo[g,h,i]-perylene (µg/L)
MRW-1	30-Jan-03	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10
	17-Aug-04	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
MRW-2	17-Aug-04	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
MRW-3	17-Aug-04	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
MRW-4	17-Aug-04	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
MRW-5	17-Aug-04	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RW-1	17-Aug-04	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RW-2	17-Aug-04	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
RW-3	17-Aug-04	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
NMOCD Remedial Thresholds		30												0.70			

Red, bolded values are in excess of the NMOCD Remediation Thresholds or Other Standards for Domestic Water Supply.

- - = Parameter was not analyzed

TABLE 4

Summary of Groundwater Sampling Recommendations

Vacuum 10-Inch to Jal - Ref. #2002-10248

Monitoring Well	Eight Quarters Below NMOCD Standards	Sampling Schedule				Notes
		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
MRW-1	No	X	X	X	X	
MRW-2	No	X	X	X	X	
MRW-3	No	X	X	X	X	
MRW-4	No	X	X	X	X	
MRW-5	No	X	X	X	X	
RW-1	No	X	X	X	X	Sample if no PSH present and submit for quanti-fication of TPH, BTEX and PAH first round, BTEX only thereafter.
RW-2	No	X	X	X	X	
RW-3	No	X	X	X	X	

TABLE 5

Summary of Soil Analytical Results

Vacuum 10-Inch to Jal - Ref #2002-10248

Sample ID	Sample Date	Field Analyses (PID) (ppm)	Benzene (µg/Kg)	Toluene (µg/Kg)	Ethylbenzene (µg/Kg)	m,p-Xylenes (µg/Kg)	o-Xylene (µg/Kg)	Total BTEX (µg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)
SLEV1022504W-NESW	25-Feb-04	--	<20	312	1,920	2,910	1,800	6,942	608	18,400	19,008
SLEV1022504W-ESW	25-Feb-04	--	<20	<20	<20	<40	<20	<120	<5	<2.5	<7.5
SLEV1022504W-WSW	25-Feb-04	--	<20	<20	<20	<40	<20	<120	<5	7.31	7
SLEV1022504W-SESW	25-Feb-04	--	<20	<20	<20	<40	<20	<120	<5	<2.5	<7.5
SLEV1022504W-SBH	25-Feb-04	--	<20	<20	<20	<40	<20	<120	<5	<2.5	<7.5
SLEV1022504W-SWSW	25-Feb-04	--	<20	52	177	205	396	830	106	3,690	3,796
SLEV1022504W-NBH	25-Feb-04	--	<20	<20	<20	<40	<20	<120	179	8,690	8,869
SLEV1022504W-NWSW	25-Feb-04	--	<20	<20	<20	<40	<20	<120	<5	<2.5	<7.5
SLEV1022504E-NWSW	25-Feb-04	--	<20	<20	<20	<40	<20	<120	7.15	1,980	1,987
SLEV1022504E-SBH	25-Feb-04	--	<20	<20	<20	<40	<20	<120	<5	4.78	5
SLEV1022504E-WSW	25-Feb-04	--	<20	<20	<20	<40	<20	<120	<5	<2.5	<7.5
SLEV1022504E-NBH	25-Feb-04	--	<20	181	769	1,270	714	2,934	337	9,640	9,977
SLEV1022504E-NESW	25-Feb-04	--	<20	<20	34.4	47	168	249	136	6,580	6,716
SLEV1022504W-SWSW	25-Feb-04	--	<20	<20	<20	<40	<20	<120	<5	<2.5	<7.5
SLEV1022504W-SESW	25-Feb-04	--	<20	<20	<20	<40	<20	<120	<5	13.3	13
EE Bottom SXP 1	5-May-05	--	<25	26.8	38.2	209	49	323	208	2,170	2,378
EE Bottom SXP 1- B	17-May-05	--	<25	<25	<25	<25	<25	<125	<10.0	35.4	35.4
EE Wall SXP1	5-May-05	--	<25	15 [C]	37.2	97.3	37.6	187	<10.0	<10.0	<10.0
EE Bottom SXP 2	5-May-05	--	<25	<25	<25	<25	<25	<125	<10.0	<10.0	<10.0
EE Wall SXP 2	5-May-05	--	<25	<25	<25	<25	<25	<125	<10.0	<10.0	<10.0
EE Bottom SXP 3	5-May-05	--	<25	<25	<25	<25	<25	<125	<10.0	<10.0	<10.0
EE Wall SXP 3	5-May-05	--	<25	<25	<25	53.7	<25	53.7	<10.0	<10.0	<10.0
EE SXP 4	5-May-05	--	<25	<25	<25	<25	<25	<125	<10.0	<10.0	<10.0
EE SXP 5	5-May-05	--	<25	<25	<25	<25	<25	<125	<10.0	11.6	11.6
EE SXP 6	5-May-05	--	<25	<25	<25	62.9	<25	62.9	12.1	181	193
EE SXP 6 - B	17-May-05	--	<25	<25	<25	44.1	28.1	72.2	<10.0	<10.0	<10.0
EE SXP 7	5-May-05	--	<25	<25	<25	46.0	<25	46.0	6.88 [C]	139	139
EE SXP 7 - B	17-May-05	--	<25	<25	<25	<25	<25	<125	<10.0	<10.0	<10.0
EE SXP 8	5-May-05	--	<25	<25	<25	<25	<25	<125	<10.0	9.66 [C]	<10.0
EE SXP 9	5-May-05	--	<25	<25	<25	<25	<25	<125	86.4	879	965
EE SXP - 9	17-May-05	--	<25	<25	<25	<25	<25	<125	<10.0	76.8	76.8
EE SXP 10	5-May-05	--	<25	<25	<25	45.0	<25	<125	7.43 [C]	80.8	80.8
WE S-1	23-Jun-05 [A] / 5-Jul-05 [B]	0.0	<25	<25	<25	<25	<25	<125	<10.0	<10.0	<10.0
WE S-2	23-Jun-05	0.0	--	--	--	--	--	--	--	--	--
WE S-3	23-Jun-05 [A] / 5-Jul-05 [B]	0.0	<25	<25	<25	<25	<25	<125	<10.0	<10.0	<10.0
WE W-1	23-Jun-05	0.0	--	--	--	--	--	--	--	--	--
WE W-2	23-Jun-05	1.9	--	--	--	--	--	--	--	--	--
WE W-3	23-Jun-05 [A] / 5-Jul-05 [B]	0.0	<25	<25	<25	<25	<25	<125	<10.0	<10.0	<10.0

TABLE 5

Summary of Soil Analytical Results

Vacuum 10-Inch to Jal - Ref #2002-10248

Sample ID	Sample Date	Field Analyses (PID) (ppm)	Benzene (µg/Kg)	Toluene (µg/Kg)	Ethylbenzene (µg/Kg)	m,p-Xylenes (µg/Kg)	o-Xylene (µg/Kg)	Total BTEX (µg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)
WE W-4	23-Jun-05	0.0	--	--	--	--	--	--	--	--	--
WE W-5	23-Jun-05 [A]	0.0	<25	<25	<25	<25	<25	<125	<10.0	<10.0	<10.0
	5-Jul-05 [B]										
WE W-6	23-Jun-05	0.0	--	--	--	--	--	--	--	--	--
WE W-7	23-Jun-05	1.7	--	--	--	--	--	--	--	--	--
WE W-8	23-Jun-05	0.5	--	--	--	--	--	--	--	--	--
WE W-9	23-Jun-05 [A]	65.8	<25	<25	<25	<25	<25	<125	<10.0	1,060	1,060
	5-Jul-05 [B]										
WE W-10	23-Jun-05	2.6	--	--	--	--	--	--	--	--	--
WE W-11	23-Jun-05	0.0	--	--	--	--	--	--	--	--	--
WE W-12	23-Jun-05	0.0	--	--	--	--	--	--	--	--	--
WE W-13	23-Jun-05 [A]	0.0	<25	<25	<25	<25	<25	<125	<10.0	<10.0	<10.0
	5-Jul-05 [B]										
WE W-14	23-Jun-05	0.0	--	--	--	--	--	--	--	--	--
WE W-15	23-Jun-05	3.1	--	--	--	--	--	--	--	--	--
WE W-16	23-Jun-05	0.0	--	--	--	--	--	--	--	--	--
WE W-17	23-Jun-05 [A]	0.0	<25	<25	<25	<25	<25	<125	<10.0	<10.0	<10.0
	5-Jul-05 [B]										
WE W-18	23-Jun-05	1.8	--	--	--	--	--	--	--	--	--
WE N-1	23-Jun-05	0.0	--	--	--	--	--	--	--	--	--
WE N-2	23-Jun-05 [A]	17.6	<25	<25	<25	<25	<25	<125	<10.0	<10.0	<10.0
	5-Jul-05 [B]										
WE N-3	23-Jun-05 [A]	11.5	22.0 [C]	55.6	22.8 [C]	227	32.5	360	<10.0	<10.0	<10.0
	5-Jul-05 [B]										
WE N-4	23-Jun-05	16.9	--	--	--	--	--	--	--	--	--
WE N-5	23-Jun-05 [A]	53.6	<25	<25	<25	65.9	<25	65.9	7.93 [C]	97.0	97.0
	5-Jul-05 [B]										
WE N-6	12-Jul-05 [B]	--	<25	<25	<25	46.0	<25	46.0	645	10,400	11,000
WE E-1	23-Jun-05	3.9	--	--	--	--	--	--	--	--	--
WE E-2	23-Jun-05 [A]	1.6	<25	<25	<25	<25	<25	<125	<10.0	<10.0	<10.0
	5-Jul-05 [B]										
WE E-3	23-Jun-05	18.5									
WE E-4	23-Jun-05 [A]	107	<25	30.5	24.5 [C]	93.0	<25	148	17.0	234	251
	5-Jul-05 [B]										
WE E-5	23-Jun-05	13.0	--	--	--	--	--	--	--	--	--
WE E-6	23-Jun-05 [A]	3.7	<25	<25	<25	<25	<25	<125	<10.0	<10.0	<10.0
	5-Jul-05 [B]										
WE E-7	23-Jun-05	1.9	--	--	--	--	--	--	--	--	--
WE E-8	23-Jun-05	2.2	--	--	--	--	--	--	--	--	--

TABLE 5

Summary of Soil Analytical Results

Vacuum 10-Inch to Jal - Ref #2002-10248

Sample ID	Sample Date	Field Analyses (PID) (ppm)	Benzene (µg/Kg)	Toluene (µg/Kg)	Ethylbenzene (µg/Kg)	m,p-Xylenes (µg/Kg)	o-Xylene (µg/Kg)	Total BTEX (µg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)
WE E-9	23-Jun-05	13.6	--	--	--	--	--	--	--	--	--
WE E-10	23-Jun-05	2.1	--	--	--	--	--	--	--	--	--
WE E-11	23-Jun-05	7.2	--	--	--	--	--	--	--	--	--
WE E-12	23-Jun-05 [A]	69.0	<25	<25	<25	<25	<25	<125	<10.0	<10.0	<10.0
	5-Jul-05 [B]										
WE E-13	23-Jun-05	10.1	--	--	--	--	--	--	--	--	--
WE E-14	23-Jun-05	1.5	--	--	--	--	--	--	--	--	--
WE M-N	23-Jun-05	3.0	--	--	--	--	--	--	--	--	--
WE M-E	23-Jun-05 [A]	7.6	<25	<25	<25	<25	<25	<125	<10.0	353	353
	5-Jul-05 [B]										
WE M-S	23-Jun-05	1.9	--	--	--	--	--	--	--	--	--
WE M-W	23-Jun-05	5.4	--	--	--	--	--	--	--	--	--
WE M-B	23-Jun-05 [A]	89.6	17.9 [C]	82.3	161	1,010	539	1,810	240	3,220	3,460
	5-Jul-05 [B]										
WE B-1	5-Jul-05	--	<25	<25	<25	<25	<25	<125	<10.0	<10.0	<10.0
WE B-2	5-Jul-05	--	<25	<25	<25	<25	<25	<125	<10.0	<10.0	<10.0
WE B-3	5-Jul-05	--	<25	<25	<25	<25	<25	<125	<10.0	<10.0	<10.0
WE B-4	5-Jul-05	--	<25	<25	<25	<25	<25	<125	<10.0	<10.0	<10.0
WE B-5	5-Jul-05	--	<25	<25	<25	<25	<25	<125	<10.0	<10.0	<10.0
WE B-6	5-Jul-05	--	<25	<25	20.0 [C]	104	37.1	57.1	<10.0	<10.0	<10.0
NMOCD Remedial Thresholds			**10,000**					**50,000**			**100**

Bolded values are in excess of the NMOCD Remediation Thresholds

-- = Not Analyzed

[A] *Field analysis date*

[B] *Soil sample collection date*

[C] *Detected, but below the Reporting Limit; therefore, result is an estimated concentration.*

TABLE 6

Summary of Soil Boring Analytical Results

Vacuum 10-Inch to Jal - Ref #2002-10248

Sample ID	Sample Date	Field Analyses (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	m,p-Xylenes (mg/Kg)	o-Xylene (mg/Kg)	Total BTEX (mg/Kg)	TPH (as gasoline) (mg/Kg)	TPH (as diesel) (mg/Kg)	Total TPH (mg/Kg)
MW-9 (5')	16-Sep-05	21.4	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.125	<10.0	<10.0	<10.0
MW-9 (10')	16-Sep-05	17.1	<0.0250	<0.0250	<0.0250	0.0370	<0.0250	0.0370	<10.0	<10.0	<10.0
MW-9 (15')	16-Sep-05	13.6	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.125	<10.0	<10.0	<10.0
MW-9 (18')	16-Sep-05	10.6	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.125	<10.0	<10.0	<10.0
MW-9 (20')	16-Sep-05	8.4	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.125	<10.0	<10.0	<10.0
NMOCD Remedial Thresholds			**10**					**50**			**100**

APPENDICES

APPENDIX A

GROUNDWATER LABORATORY ANALYTICAL RESULTS

AND

CHAIN-OF-CUSTODY FORMS

ANALYSYS INC.

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

Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Eunice, NM 88231

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

Report#/Lab ID#: 167096 **Report Date:** 05/19/05
Project ID: 2002-10248
Sample Name: LEV10"081704MRW5
Sample Matrix: water
Date Received: 05/12/2005 **Time:** 13:00
Date Sampled: 05/09/2005 **Time:** 08:05

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		05/18/05	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	05/18/05	8260b	---	0.6	90.2	96.8	97.5
Ethylbenzene	<1	µg/L	1	<1	05/18/05	8260b	---	3.1	113.1	106.8	128.7
m,p-Xylenes	<2	µg/L	2	<2	05/18/05	8260b	---	2.1	111.8	107.6	128
o-Xylene	<1	µg/L	1	<1	05/18/05	8260b	---	2.7	111	107.8	125.9
Toluene	<1	µg/L	1	<1	05/18/05	8260b	---	2.2	97.8	100.6	106.7

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Dale Wagner

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

ANALYSYS INC.

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

Client: Environmental Plus, Inc.	**Project ID:** 2002-10248	**Report#/Lab ID#:** 167096
Attn: Iain Olness	**Sample Name:** LEV10"081704MRW5	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	95.2	74-124	---
Toluene-d8	8260b	110	89-115	---

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

AnalySys Inc.

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

Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Eunice, NM 88231

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

Report#/Lab ID#: 167097 **Report Date:** 05/19/05
Project ID: 2002-10248
Sample Name: LEV10"081704RW-3
Sample Matrix: water
Date Received: 05/12/2005 **Time:** 13:00
Date Sampled: 05/09/2005 **Time:** 09:28

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		05/18/05	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	05/18/05	8260b	---	0.6	90.2	96.8	97.5
Ethylbenzene	<1	µg/L	1	<1	05/18/05	8260b	---	3.1	113.1	106.8	128.7
m,p-Xylenes	<2	µg/L	2	<2	05/18/05	8260b	---	2.1	111.8	107.6	128
o-Xylene	<1	µg/L	1	<1	05/18/05	8260b	---	2.7	111	107.8	125.9
Toluene	<1	µg/L	1	<1	05/18/05	8260b	---	2.2	97.8	100.6	106.7

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Dale Wagner

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ANALYSYS INC.

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

Client: Environmental Plus, Inc.	**Project ID:** 2002-10248	**Report#/Lab ID#:** 167097
Attn: Iain Olness	**Sample Name:** LEV10"081704RW-3	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	99.6	74-124	---
Toluene-d8	8260b	106	89-115	---

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

ANALYSYS INC.

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

Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Eunice, NM 88231

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

Report#/Lab ID#: 167098 **Report Date:** 05/19/05
Project ID: 2002-10248
Sample Name: LEV10"081704RW2
Sample Matrix: water
Date Received: 05/12/2005 **Time:** 13:00
Date Sampled: 05/09/2005 **Time:** 11:10

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Volatile organics-8260b/BTEX	---		---		05/18/05	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	05/18/05	8260b	---	0.6	90.2	96.8	97.5
Ethylbenzene	<1	µg/L	1	<1	05/18/05	8260b	---	3.1	113.1	106.8	128.7
m,p-Xylenes	<2	µg/L	2	<2	05/18/05	8260b	---	2.1	111.8	107.6	128
o-Xylene	<1	µg/L	1	<1	05/18/05	8260b	---	2.7	111	107.8	125.9
Toluene	<1	µg/L	1	<1	05/18/05	8260b	---	2.2	97.8	100.6	106.7

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Dale Wagner

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ANALYSYS INC.

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

Client: Environmental Plus, Inc.	**Project ID:** 2002-10248	**Report#/Lab ID#:** 167098
Attn: Iain Olness	**Sample Name:** LEV10"081704RW2	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	101	74-124	---
Toluene-d8	8260b	105	89-115	---

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

ANALYSYS INC.

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

Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Eunice, NM 88231

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

Report#/Lab ID#: 167099 **Report Date:** 05/19/05
Project ID: 2002-10248
Sample Name: LEV10"081704MRW1
Sample Matrix: water
Date Received: 05/12/2005 **Time:** 13:00
Date Sampled: 05/09/2005 **Time:** 13:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Volatile organics-8260b/BTEX	---		---		05/18/05	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	05/18/05	8260b	---	0.6	90.2	96.8	97.5
Ethylbenzene	<1	µg/L	1	<1	05/18/05	8260b	---	3.1	113.1	106.8	128.7
m,p-Xylenes	<2	µg/L	2	<2	05/18/05	8260b	---	2.1	111.8	107.6	128
o-Xylene	<1	µg/L	1	<1	05/18/05	8260b	---	2.7	111	107.8	125.9
Toluene	<1	µg/L	1	<1	05/18/05	8260b	---	2.2	97.8	100.6	106.7

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Respectfully Submitted,

Dale Wagner

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ANALYSYS INC.

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

Client: Environmental Plus, Inc.	**Project ID:** 2002-10248	**Report#/Lab ID#:** 167099
Attn: Iain Olness	**Sample Name:** LEV10"081704MRW1	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	100	74-124	---
Toluene-d8	8260b	104	89-115	---

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

AnalySys Inc.

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Eunice, NM 88231

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

Report#/Lab ID#: 167100 **Report Date:** 05/19/05
Project ID: 2002-10248
Sample Name: LEV10"081704MRW3
Sample Matrix: water
Date Received: 05/12/2005 **Time:** 13:00
Date Sampled: 05/09/2005 **Time:** 10:21

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Volatile organics-8260b/BTEX	---		---		05/18/05	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	05/18/05	8260b	---	0.6	90.2	96.8	97.5
Ethylbenzene	<1	µg/L	1	<1	05/18/05	8260b	---	3.1	113.1	106.8	128.7
m,p-Xylenes	<2	µg/L	2	<2	05/18/05	8260b	---	2.1	111.8	107.6	128
o-Xylene	<1	µg/L	1	<1	05/18/05	8260b	---	2.7	111	107.8	125.9
Toluene	<1	µg/L	1	<1	05/18/05	8260b	---	2.2	97.8	100.6	106.7

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2002-10248	**Report#/Lab ID#:** 167100
Attn: Iain Olness	**Sample Name:** LEV10"081704MRW3	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	107	74-124	---
Toluene-d8	8260b	106	89-115	---

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

ANALYSYS INC.

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

Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Eunice, NM 88231

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

Report#/Lab ID#: 167101 **Report Date:** 05/19/05
Project ID: 2002-10248
Sample Name: LEV10"081704MRW2
Sample Matrix: water
Date Received: 05/12/2005 **Time:** 13:00
Date Sampled: 05/09/2005 **Time:** 08:40

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		05/18/05	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	05/18/05	8260b	---	0.6	90.2	96.8	97.5
Ethylbenzene	<1	µg/L	1	<1	05/18/05	8260b	---	3.1	113.1	106.8	128.7
m,p-Xylenes	<2	µg/L	2	<2	05/18/05	8260b	---	2.1	111.8	107.6	128
o-Xylene	<1	µg/L	1	<1	05/18/05	8260b	---	2.7	111	107.8	125.9
Toluene	<1	µg/L	1	<1	05/18/05	8260b	---	2.2	97.8	100.6	106.7

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

Client: Environmental Plus, Inc.	**Project ID:** 2002-10248	**Report#/Lab ID#:** 167101
Attn: Iain Olness	**Sample Name:** LEV10"081704MRW2	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	114	74-124	---
Toluene-d8	8260b	105	89-115	---

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

ANALYSYS INC.

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Eunice, NM 88231

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

Report#/Lab ID#: 167102 **Report Date:** 05/19/05
Project ID: 2002-10248
Sample Name: LEV10"081704MRW4
Sample Matrix: water
Date Received: 05/12/2005 **Time:** 13:00
Date Sampled: 05/09/2005 **Time:** 12:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual. [7]	Prec. [2]	Recov. [3]	CCV [4]	LCS [4]
Volatile organics-8260b/BTEX	---		---		05/18/05	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	05/18/05	8260b	---	0.6	90.2	96.8	97.5
Ethylbenzene	<1	µg/L	1	<1	05/18/05	8260b	---	3.1	113.1	106.8	128.7
m,p-Xylenes	<2	µg/L	2	<2	05/18/05	8260b	---	2.1	111.8	107.6	128
o-Xylene	<1	µg/L	1	<1	05/18/05	8260b	---	2.7	111	107.8	125.9
Toluene	<1	µg/L	1	<1	05/18/05	8260b	---	2.2	97.8	100.6	106.7

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ANALYSYS INC.

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

Client: Environmental Plus, Inc.	**Project ID:** 2002-10248	**Report#/Lab ID#:** 167102
Attn: Iain Olness	**Sample Name:** LEV10"081704MRW4	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	106	74-124	---
Toluene-d8	8260b	107	89-115	---

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

12462

AnalySys Inc.

Chain of Custody Form

4221 Freidrich Lane, Suite 190, Austin, TX 78744 *2209 N. Padre Island Dr., Corpus Christi, TX 78408*
512-444-5896 FAX: 512-447-4766

Company Name	Environmental Plus, Inc.
EPI Project Manager	Iain Olness
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	505-394-3481 / 505-394-2601
Client Company	Plains All American
Facility Name	Vacuum 10" to Jal
Project Reference	2002-10248
EPI Sampler Name	Manuel Gonzales

Bill To

PLAINS ALL AMERICAN PIPELINE, L.P.

Attn: Camille Reynolds
5805 East Highway 80
Midland, TX 79706

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME
167096 1	LEV10"081704MRW5	G	4	X						X	X		9-May	8:05
167097 2	LEV10"081704RW-3	G	4	X						X	X		9-May	9:28
167098 3	LEV10"081704RW2	G	4	X						X	X		9-May	11:10
167099 4	LEV10"081704MRW1	G	4	X						X	X		9-May	13:15
167100 5	LEV10"081704MRW3	G	4	X						X	X		9-May	10:21
167101 6	LEV10"081704MRW2	G	4	X						X	X		9-May	8:40
167102 7	LEV10"081704MRW4	G	4	X						X	X		9-May	12:45
8														
9														
10														

ANALYSIS REQUEST

BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO_4^{2-})	pH	TCLP	OTHER >>>	PAH				
X											
X											
X											
X											
X											
X											
X											

Sampler Relinquished: Date 5/11/05 Time 1500 Received By: 05/12/05 1320

Relinquished by: Date Time Received By: (lab staff)

Delivered by: Sample Cool & Intact Yes No Checked By:

E-mail results to: iolness@hotmail.com and enviplus1@aol.com

REMARKS:

T: 2.8°C

AnalySys Inc.

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

Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Eunice, NM 88231

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

Report#/Lab ID#: 171061 **Report Date:** 09/26/05
Project ID: 2002-10248
Sample Name: MW-9
Sample Matrix: water
Date Received: 09/20/2005 **Time:** 15:30
Date Sampled: 09/20/2005 **Time:** 14:45

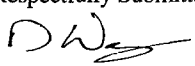
REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual. [7]	Prec. [2]	Recov. [3]	CCV [4]	LCS [4]
Volatile organics-8260b/BTEX	---		---		09/21/05	8260b(5030/5035)	---	---	---	---	---
Benzene	**2.8**	µg/L	1	<1	09/21/05	8260b	---	1.2	98.1	98.5	99.8
Ethylbenzene	**3.35**	µg/L	1	<1	09/21/05	8260b	---	1.5	104	108.9	109.2
m,p-Xylenes	**6.5**	µg/L	2	<2	09/21/05	8260b	---	2.2	103.8	108.7	109.2
o-Xylene	**2.23**	µg/L	1	<1	09/21/05	8260b	---	1.2	95.5	100.1	113.9
Toluene	**8.54**	µg/L	1	<1	09/21/05	8260b	---	1.1	104.5	104.5	105.9

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,



Dale Wagner

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

Client: Environmental Plus, Inc.	**Project ID:** 2002-10248	**Report#/Lab ID#:** 171061
Attn: Iain Olness	**Sample Name:** MW-9	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	97.9	70-130	---
Toluene-d8	8260b	103	80-127	---

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

AnalySys Inc.

Chain of Custody Form

4221 Freidrich Lane, Suite 190, Austin, TX 78744
512-444-5896 FAX: 512-447-4766

2209 N. Padre Island Dr., Corpus Christi, TX 78408

Company Name	Environmental Plus, Inc.
EPI Project Manager	Iain Olness
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	505-394-3481 / 505-394-2601
Client Company	Plains All American
Facility Name	Vacuum 10" to Jal
Project Reference	2002-10248
EPI Sampler Name	George Blackburn

Bill To

PLAINS ALL AMERICAN PIPELINE, L.P.

Attn: Camille Reynolds
5805 East Highway 80
Midland, TX 79706

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	MATRIX: WASTEWATER	MATRIX: SOIL	MATRIX: CRUDE OIL	MATRIX: SLUDGE	MATRIX: OTHER:	PRESERV.: ACID/BASE	PRESERV.: ICE/COOL	PRESERV.: OTHER	SAMPLING: DATE	SAMPLING: TIME	ANALYSIS REQUEST: BTEX 8021B	TPH 8015M	CHLORIDES (Cl^-)	SULFATES ($SO_4^=$)	pH	TCLP	OTHER >>>	PAH			
171061 1	MW-9	G	4	X						X	X		20-Sep-05	14:45	X										
2																									
3																									
4																									
5																									
6																									
7																									
8																									
9																									
10																									

Sampler Relinquished:	Date 9.20.05 Time 3:30	Received By:	
Relinquished by:	Date 9/20/05 Time 1630	Received By: (lab staff)	9-21-05 9:35
Delivered by:	Sample Cool & Intact Yes No	Checked By:	

E-mail results to: iolness@envplus.net and cjreynolds@paalp.com
REMARKS:

T = 2.5 °C

ANALYSYS INC.

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

Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Eunice, NM 88231

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

Report#/Lab ID#: 173950 **Report Date:** 12/05/05
Project ID: 2002-10248 Vacuum 10" to Jal
Sample Name: RW-1
Sample Matrix: water
Date Received: 11/23/2005 **Time:** 10:30
Date Sampled: 11/22/2005 **Time:** 07:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		12/01/05	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	12/01/05	8260b	---	3.3	100.9	105	103.3
Ethylbenzene	<1	µg/L	1	<1	12/01/05	8260b	---	7.8	109.7	117.2	111.2
m,p-Xylenes	<2	µg/L	2	<2	12/01/05	8260b	---	7.2	108.2	116.2	109.1
o-Xylene	<1	µg/L	1	<1	12/01/05	8260b	---	8.5	108	118.4	111
Toluene	<1	µg/L	1	<1	12/01/05	8260b	---	6.6	108.8	115.7	112

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Elton

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

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Iain Olness	**Project ID:** 2002-10248 Vacuum 10" to Jal **Sample Name:** RW-1	**Report#/Lab ID#:** 173950 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Date Analyze	Data Qualifiers
1,2-Dichloroethane-d4	8260b	91.7	70-130	12/01/05	---
Toluene-d8	8260b	93.6	80-127	12/01/05	---

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

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Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Eunice, NM 88231

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

Report#/Lab ID#: 173951 **Report Date:** 12/05/05
Project ID: 2002-10248 Vacuum 10" to Jal
Sample Name: RW-2
Sample Matrix: water
Date Received: 11/23/2005 **Time:** 10:30
Date Sampled: 11/22/2005 **Time:** 07:30

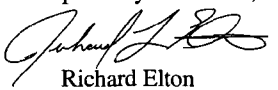
REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual. [7]	Prec. [2]	Recov. [3]	CCV [4]	LCS [4]
Volatile organics-8260b/BTEX	---		---		12/01/05	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	12/01/05	8260b	---	3.3	100.9	105	103.3
Ethylbenzene	<1	µg/L	1	<1	12/01/05	8260b	---	7.8	109.7	117.2	111.2
m,p-Xylenes	<2	µg/L	2	<2	12/01/05	8260b	---	7.2	108.2	116.2	109.1
o-Xylene	<1	µg/L	1	<1	12/01/05	8260b	---	8.5	108	118.4	111
Toluene	<1	µg/L	1	<1	12/01/05	8260b	---	6.6	108.8	115.7	112

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,



Richard Elton

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Client: Environmental Plus, Inc.	**Project ID:** 2002-10248 Vacuum 10" to Jal	**Report#/Lab ID#:** 173951
Attn: Iain Olness	**Sample Name:** RW-2	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Date Analyze	Data Qualifiers
1,2-Dichloroethane-d4	8260b	89.5	70-130	12/01/05	---
Toluene-d8	8260b	93.2	80-127	12/01/05	---

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

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Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Eunice, NM 88231

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

Report#/Lab ID#: 173952 **Report Date:** 12/05/05
Project ID: 2002-10248 Vacuum 10" to Jal
Sample Name: MRW-1
Sample Matrix: water
Date Received: 11/23/2005 **Time:** 10:30
Date Sampled: 11/22/2005 **Time:** 08:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Volatile organics-8260b/BTEX	---		---		12/02/05	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	12/02/05	8260b	---	3.3	100.9	105	103.3
Ethylbenzene	<1	µg/L	1	<1	12/02/05	8260b	---	7.8	109.7	117.2	111.2
m,p-Xylenes	<2	µg/L	2	<2	12/02/05	8260b	---	7.2	108.2	116.2	109.1
o-Xylene	<1	µg/L	1	<1	12/02/05	8260b	---	8.5	108	118.4	111
Toluene	<1	µg/L	1	<1	12/02/05	8260b	---	6.6	108.8	115.7	112

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Iain Olness	**Project ID:** 2002-10248 Vacuum 10" to Jal **Sample Name:** MRW-1	**Report#/Lab ID#:** 173952 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Date Analyze	Data Qualifiers
1,2-Dichloroethane-d4	8260b	93.7	70-130	12/02/05	---
Toluene-d8	8260b	99.7	80-127	12/02/05	---

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

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Address: 2100 Ave. O
Eunice, NM 88231

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

Report#/Lab ID#: 173953 **Report Date:** 12/05/05
Project ID: 2002-10248 Vacuum 10" to Jal
Sample Name: RW-3
Sample Matrix: water
Date Received: 11/23/2005 **Time:** 10:30
Date Sampled: 11/18/2005 **Time:** 17:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		11/30/05	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/30/05	8260b	---	5.6	95.7	109.5	98
Ethylbenzene	<1	µg/L	1	<1	11/30/05	8260b	---	3.1	109	111.8	109.3
m,p-Xylenes	<2	µg/L	2	<2	11/30/05	8260b	---	1.3	105.3	112	109
o-Xylene	<1	µg/L	1	<1	11/30/05	8260b	---	1.4	104.4	111.2	108.2
Toluene	<1	µg/L	1	<1	11/30/05	8260b	---	4.7	104.9	114.6	102

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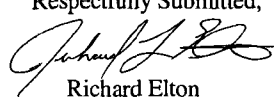
Respectfully Submitted,



Richard Elton

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Client: Environmental Plus, Inc.	**Project ID:** 2002-10248 Vacuum 10" to Jal	**Report#/Lab ID#:** 173953
Attn: Iain Olness	**Sample Name:** RW-3	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Date Analyze	Data Qualifiers
1,2-Dichloroethane-d4	8260b	88.6	70-130	11/30/05	---
Toluene-d8	8260b	100	80-127	11/30/05	---

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

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Attn: Iain Olness
Address: 2100 Ave. O
Eunice, NM 88231

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

Report#/Lab ID#: 173954 **Report Date:** 12/05/05
Project ID: 2002-10248 Vacuum 10" to Jal
Sample Name: MRW-2
Sample Matrix: water
Date Received: 11/23/2005 **Time:** 10:30
Date Sampled: 11/18/2005 **Time:** 17:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		11/30/05	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/30/05	8260b	---	5.6	95.7	109.5	98
Ethylbenzene	<1	µg/L	1	<1	11/30/05	8260b	---	3.1	109	111.8	109.3
m,p-Xylenes	<2	µg/L	2	<2	11/30/05	8260b	---	1.3	105.3	112	109
o-Xylene	<1	µg/L	1	<1	11/30/05	8260b	---	1.4	104.4	111.2	108.2
Toluene	<1	µg/L	1	<1	11/30/05	8260b	---	4.7	104.9	114.6	102

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Client: Environmental Plus, Inc.	**Project ID:** 2002-10248 Vacuum 10" to Jal	**Report#/Lab ID#:** 173954
Attn: Iain Olness	**Sample Name:** MRW-2	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Date Analyze	Data Qualifiers
1,2-Dichloroethane-d4	8260b	89.6	70-130	11/30/05	---
Toluene-d8	8260b	99.6	80-127	11/30/05	---

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

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Client: Environmental Plus, Inc.
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Address: 2100 Ave. O
Eunice, NM 88231

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

Report#/Lab ID#: 173955 **Report Date:** 12/05/05
Project ID: 2002-10248 Vacuum 10" to Jal
Sample Name: MRW-3
Sample Matrix: water
Date Received: 11/23/2005 **Time:** 10:30
Date Sampled: 11/18/2005 **Time:** 18:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		11/30/05	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/30/05	8260b	---	5.6	95.7	109.5	98
Ethylbenzene	<1	µg/L	1	<1	11/30/05	8260b	---	3.1	109	111.8	109.3
m,p-Xylenes	<2	µg/L	2	<2	11/30/05	8260b	---	1.3	105.3	112	109
o-Xylene	<1	µg/L	1	<1	11/30/05	8260b	---	1.4	104.4	111.2	108.2
Toluene	<1	µg/L	1	<1	11/30/05	8260b	---	4.7	104.9	114.6	102

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Client: Environmental Plus, Inc.	**Project ID:** 2002-10248 Vacuum 10" to Jal	**Report#/Lab ID#:** 173955
Attn: Iain Olness	**Sample Name:** MRW-3	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Date Analyze	Data Qualifiers
1,2-Dichloroethane-d4	8260b	92.7	70-130	11/30/05	---
Toluene-d8	8260b	100	80-127	11/30/05	---

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

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Attn: Iain Olness
Address: 2100 Ave. O
Eunice, NM 88231

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

Report#/Lab ID#: 173956 **Report Date:** 12/05/05
Project ID: 2002-10248 Vacuum 10" to Jal
Sample Name: MRW-4
Sample Matrix: water
Date Received: 11/23/2005 **Time:** 10:30
Date Sampled: 11/18/2005 **Time:** 18:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		11/30/05	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/30/05	8260b	---	5.6	95.7	109.5	98
Ethylbenzene	<1	µg/L	1	<1	11/30/05	8260b	---	3.1	109	111.8	109.3
m,p-Xylenes	<2	µg/L	2	<2	11/30/05	8260b	---	1.3	105.3	112	109
o-Xylene	<1	µg/L	1	<1	11/30/05	8260b	---	1.4	104.4	111.2	108.2
Toluene	<1	µg/L	1	<1	11/30/05	8260b	---	4.7	104.9	114.6	102

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

Client: Environmental Plus, Inc.	**Project ID:** 2002-10248 Vacuum 10" to Jal	**Report#/Lab ID#:** 173956
Attn: Iain Olness	**Sample Name:** MRW-4	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Date Analyze	Data Qualifiers
1,2-Dichloroethane-d4	8260b	88.3	70-130	11/30/05	---
Toluene-d8	8260b	102	80-127	11/30/05	---

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

AnalySys Inc.

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

Client: Environmental Plus, Inc.
Attn: Iain Olness
Address: 2100 Ave. O
Eunice, NM 88231

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

Report#/Lab ID#: 173957 **Report Date:** 12/05/05
Project ID: 2002-10248 Vacuum 10" to Jal
Sample Name: MRW-5
Sample Matrix: water
Date Received: 11/23/2005 **Time:** 10:30
Date Sampled: 11/18/2005 **Time:** 18:30

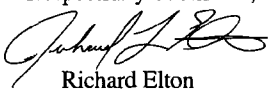
REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual. [7]	Prec. [2]	Recov. [3]	CCV [4]	LCS [4]
Volatile organics-8260b/BTEX	---		---		11/30/05	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/30/05	8260b	---	5.6	95.7	109.5	98
Ethylbenzene	<1	µg/L	1	<1	11/30/05	8260b	---	3.1	109	111.8	109.3
m,p-Xylenes	<2	µg/L	2	<2	11/30/05	8260b	---	1.3	105.3	112	109
o-Xylene	<1	µg/L	1	<1	11/30/05	8260b	---	1.4	104.4	111.2	108.2
Toluene	<1	µg/L	1	<1	11/30/05	8260b	---	4.7	104.9	114.6	102

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,



Richard Elton

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

ANALYSYS INC.

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

Client: Environmental Plus, Inc.	**Project ID:** 2002-10248 Vacuum 10" to Jal	**Report#/Lab ID#:** 173957
Attn: Iain Olness	**Sample Name:** MRW-5	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Date Analyze	Data Qualifiers
1,2-Dichloroethane-d4	8260b	94.1	70-130	11/30/05	---
Toluene-d8	8260b	105	80-127	11/30/05	---

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

AnalySys Inc.

Chain of Custody Form

4221 Freidrich Lane, Suite 190, Austin, TX 78744
512-444-5896 FAX: 512-447-4766

2209 N. Padre Island Dr., Corpus Christi, TX 78408

Company Name	Environmental Plus, Inc.
EPI Project Manager	Iain Olness
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	505-394-3481 / 505-394-2601
Client Company	Plains All American
Facility Name	Vacuum 10" to Jal
Project Reference	2002-10248
EPI Sampler Name	George Blackburn

Bill To

PLAINS ALL AMERICAN PIPELINE, L.P.

Attn: Camille Reynolds
5805 East Highway 80
Midland, TX 79706

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX 8021B	TPH 8015M	CHLORIDES (Cl^-)	SULFATES (SO_4^{2-})	pH	TCLP	OTHER >>>	PAH
1	~~MW-9~~	~~G~~	~~4~~	~~X~~						~~X~~	~~X~~				X							
173950 2	RW-1												11-22-05	7:00	X							
173951 3	RW-2												11-22-05	7:30	X							
173952 4	MRW-1												11-22-05	8:00	X							
173953 5	RW-3												11-18-05	5:15P	X							
173954 6	MRW-2												11-18-05	5:45P	X							
173955 7	MRW-3												11-18-05	6:00P	X							
173956 8	MRW-4												11-18-05	6:15P	X							
173957 9	MRW-5												11-18-05	6:30P	X							
10																						

Sampler Relinquished:	Date / Time	Received By: Ryan Rollins
Relinquished by: Jason Hegemann	Date 11-22-05 Time 4:15P	Received By: (lab staff) ASI 11-23-05 10:30AM
Delivered by:	Sample Cool & Intact (Yes) No	Checked By:

E-mail results to: iolness@envplus.net and cjreynolds@paalp.com

REMARKS:

Temp: 2.1°c

APPENDIX B

SOIL LABORATORY ANALYTICAL RESULTS

AND

CHAIN-OF-CUSTODY FORM

ENVIRONMENTAL LAB OF

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: Vacuum 10" to Jal

Project Number: 2002-10248

Location: None Given

Lab Order Number: 5E06006

Report Date: 05/09/05

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

Project: Vacuum 10" to Jal
Project Number: 2002-10248
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
05/09/05 12:07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EE Bottom SXP 1	5E06006-01	Soil	05/05/05 12:45	05/06/05 11:02
EE Wall SXP 1	5E06006-02	Soil	05/05/05 12:49	05/06/05 11:02
EE Bottom SXP 2	5E06006-03	Soil	05/05/05 12:53	05/06/05 11:02
EE Wall SXP 2	5E06006-04	Soil	05/05/05 12:59	05/06/05 11:02
EE Bottom SXP 3	5E06006-05	Soil	05/05/05 13:07	05/06/05 11:02
EE Wall SXP 3	5E06006-06	Soil	05/05/05 13:15	05/06/05 11:02
EE SXP 4	5E06006-07	Soil	05/05/05 13:26	05/06/05 11:02
EE SXP 5	5E06006-08	Soil	05/05/05 13:32	05/06/05 11:02
EE SXP 6	5E06006-09	Soil	05/05/05 13:40	05/06/05 11:02
EE SXP 7	5E06006-10	Soil	05/05/05 13:50	05/06/05 11:02
EE SXP 8	5E06006-11	Soil	05/05/05 14:01	05/06/05 11:02
EE SXP 9	5E06006-12	Soil	05/05/05 14:10	05/06/05 11:02
EE SXP 10	5E06006-13	Soil	05/05/05 14:15	05/06/05 11:02

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EE Bottom SXP 1 (5E06006-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE50903	05/06/05	05/06/05	EPA 8021B	
Toluene	**0.0268**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.0382**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.209**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.0493**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*100 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.4 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**208**	10.0	mg/kg dry	1	EE50602	05/06/05	05/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	**2170**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**2380**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*76.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*84.8 %*	*70-130*		"	"	"	"	
EE Wall SXP 1 (5E06006-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE50903	05/06/05	05/06/05	EPA 8021B	
Toluene	**J [0.0150]**	0.0250	"	"	"	"	"	"	J
Ethylbenzene	**0.0372**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0973**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.0376**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*85.1 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.4 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE50602	05/06/05	05/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*83.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*72.0 %*	*70-130*		"	"	"	"	
EE Bottom SXP 2 (5E06006-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE50903	05/06/05	05/06/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*99.9 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*88.5 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE50602	05/06/05	05/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EE Bottom SXP 2 (5E06006-03) Soil									
Surrogate: 1-Chlorooctane		*75.8 %*	*70-130*		*EE50602*	*05/06/05*	*05/06/05*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*72.4 %*	*70-130*		"	"	"	"	
EE Wall SXP 2 (5E06006-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE50903	05/06/05	05/06/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*84.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.6 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE50602	05/06/05	05/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*77.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*72.6 %*	*70-130*		"	"	"	"	
EE Bottom SXP 3 (5E06006-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE50903	05/06/05	05/06/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*93.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.7 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE50602	05/06/05	05/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*85.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*73.8 %*	*70-130*		"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EE Wall SXP 3 (5E06006-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE50903	05/06/05	05/06/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0537**	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91.9 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.2 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE50602	05/06/05	05/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*81.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*74.6 %*	*70-130*		"	"	"	"	
EE SXP 4 (5E06006-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE50903	05/06/05	05/06/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*99.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.6 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE50602	05/06/05	05/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*78.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*71.4 %*	*70-130*		"	"	"	"	
EE SXP 5 (5E06006-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE50903	05/06/05	05/06/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*95.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.5 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE50602	05/06/05	05/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	**11.6**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**11.6**	10.0	"	"	"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EE SXP 5 (5E06006-08) Soil									
Surrogate: 1-Chlorooctane		*86.0 %*	*70-130*		*EE50602*	*05/06/05*	*05/06/05*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*74.0 %*	*70-130*		"	"	"	"	
EE SXP 6 (5E06006-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE50903	05/06/05	05/06/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0629**	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*99.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.2 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**12.1**	10.0	mg/kg dry	1	EE50602	05/06/05	05/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	**181**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**193**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*81.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*79.0 %*	*70-130*		"	"	"	"	
EE SXP 7 (5E06006-10) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE50903	05/06/05	05/06/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0460**	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*91.9 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*93.2 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**J [6.88]**	10.0	mg/kg dry	1	EE50602	05/06/05	05/06/05	EPA 8015M	J
Diesel Range Organics >C12-C35	**139**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**139**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*76.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*74.8 %*	*70-130*		"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EE SXP 8 (5E06006-11) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE50903	05/06/05	05/09/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*97.4 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.4 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE50602	05/06/05	05/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	**J [9.66]**	10.0	"	"	"	"	"	"	J
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*78.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*74.0 %*	*70-130*		"	"	"	"	
EE SXP 9 (5E06006-12) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE50903	05/06/05	05/09/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*99.9 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.3 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**86.4**	10.0	mg/kg dry	1	EE50602	05/06/05	05/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	**879**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**965**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*88.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*93.2 %*	*70-130*		"	"	"	"	
EE SXP 10 (5E06006-13) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE50903	05/06/05	05/06/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0450**	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*100 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.4 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**J [7.43]**	10.0	mg/kg dry	1	EE50602	05/06/05	05/06/05	EPA 8015M	J
Diesel Range Organics >C12-C35	**80.8**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**80.8**	10.0	"	"	"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EE SXP 10 (5E06006-13) Soil									
Surrogate: 1-Chlorooctane		*79.4 %*		*70-130*	*EE50602*	*05/06/05*	*05/06/05*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*77.6 %*		*70-130*	*"*	*"*	*"*	*"*	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EE Bottom SXP 1 (5E06006-01) Soil									
% Moisture	**9.6**	0.1	%	1	EE50901	05/06/05	05/09/05	% calculation	
EE Wall SXP 1 (5E06006-02) Soil									
% Moisture	**5.0**	0.1	%	1	EE50901	05/06/05	05/09/05	% calculation	
EE Bottom SXP 2 (5E06006-03) Soil									
% Moisture	**11.1**	0.1	%	1	EE50901	05/06/05	05/09/05	% calculation	
EE Wall SXP 2 (5E06006-04) Soil									
% Moisture	**9.3**	0.1	%	1	EE50901	05/06/05	05/09/05	% calculation	
EE Bottom SXP 3 (5E06006-05) Soil									
% Moisture	**7.2**	0.1	%	1	EE50901	05/06/05	05/09/05	% calculation	
EE Wall SXP 3 (5E06006-06) Soil									
% Moisture	**8.9**	0.1	%	1	EE50901	05/06/05	05/09/05	% calculation	
EE SXP 4 (5E06006-07) Soil									
% Moisture	**12.4**	0.1	%	1	EE50901	05/06/05	05/09/05	% calculation	
EE SXP 5 (5E06006-08) Soil									
% Moisture	**12.1**	0.1	%	1	EE50901	05/06/05	05/09/05	% calculation	
EE SXP 6 (5E06006-09) Soil									
% Moisture	**4.9**	0.1	%	1	EE50901	05/06/05	05/09/05	% calculation	
EE SXP 7 (5E06006-10) Soil									
% Moisture	**6.6**	0.1	%	1	EE50901	05/06/05	05/09/05	% calculation	
EE SXP 8 (5E06006-11) Soil									
% Moisture	**9.3**	0.1	%	1	EE50901	05/06/05	05/09/05	% calculation	

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EE SXP 9 (5E06006-12) Soil									
% Moisture	**5.7**	0.1	%	1	EE50901	05/06/05	05/09/05	% calculation	
EE SXP 10 (5E06006-13) Soil									
% Moisture	**9.7**	0.1	%	1	EE50901	05/06/05	05/09/05	% calculation	

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 EE50602 - Solvent Extraction (GC)										
Blank (EE50602-BLK1)				Prepared & Analyzed: 05/06/05						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*46.2*		*mg/kg*	*50.0*		*92.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*35.1*		*"*	*50.0*		*70.2*	*70-130*			
LCS (EE50602-BS1)				Prepared & Analyzed: 05/06/05						
Gasoline Range Organics C6-C12	456	10.0	mg/kg wet	500		91.2	75-125			
Diesel Range Organics >C12-C35	522	10.0	"	500		104	75-125			
Total Hydrocarbon C6-C35	978	10.0	"	1000		97.8	75-125			
Surrogate: 1-Chlorooctane	*38.7*		*mg/kg*	*50.0*		*77.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*35.8*		*"*	*50.0*		*71.6*	*70-130*			
Calibration Check (EE50602-CCV1)				Prepared & Analyzed: 05/06/05						
Gasoline Range Organics C6-C12	452		mg/kg	500		90.4	80-120			
Diesel Range Organics >C12-C35	516		"	500		103	80-120			
Total Hydrocarbon C6-C35	968		"	1000		96.8	80-120			
Surrogate: 1-Chlorooctane	*43.9*		*"*	*50.0*		*87.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*36.8*		*"*	*50.0*		*73.6*	*70-130*			
Matrix Spike (EE50602-MS1)	**Source: 5E06006-02**			Prepared & Analyzed: 05/06/05						
Gasoline Range Organics C6-C12	488	10.0	mg/kg dry	526	ND	92.8	75-125			
Diesel Range Organics >C12-C35	544	10.0	"	526	ND	103	75-125			
Total Hydrocarbon C6-C35	1030	10.0	"	1050	ND	98.1	75-125			
Surrogate: 1-Chlorooctane	*43.6*		*mg/kg*	*50.0*		*87.2*	*70-130*			
Surrogate: 1-Chlorooctadecane	*36.2*		*"*	*50.0*		*72.4*	*70-130*			
Matrix Spike Dup (EE50602-MSD1)	**Source: 5E06006-02**			Prepared & Analyzed: 05/06/05						
Gasoline Range Organics C6-C12	477	10.0	mg/kg dry	526	ND	90.7	75-125	2.28	20	
Diesel Range Organics >C12-C35	521	10.0	"	526	ND	99.0	75-125	4.32	20	
Total Hydrocarbon C6-C35	998	10.0	"	1050	ND	95.0	75-125	3.16	20	
Surrogate: 1-Chlorooctane	*43.4*		*mg/kg*	*50.0*		*86.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*36.2*		*"*	*50.0*		*72.4*	*70-130*			

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 EE50903 - EPA 5030C (GC)										
Blank (EE50903-BLK1)				Prepared & Analyzed: 05/06/05						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*103*		*ug/kg*	*100*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*102*		*"*	*100*		*102*	*80-120*			
LCS (EE50903-BS1)				Prepared & Analyzed: 05/06/05						
Benzene	84.4		ug/kg	100		84.4	80-120			
Toluene	87.6		"	100		87.6	80-120			
Ethylbenzene	90.3		"	100		90.3	80-120			
Xylene (p/m)	214		"	200		107	80-120			
Xylene (o)	95.6		"	100		95.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*91.2*		*"*	*100*		*91.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*111*		*"*	*100*		*111*	*80-120*			
Calibration Check (EE50903-CCV1)				Prepared: 05/06/05 Analyzed: 05/07/05						
Benzene	81.6		ug/kg	100		81.6	80-120			
Toluene	82.4		"	100		82.4	80-120			
Ethylbenzene	80.8		"	100		80.8	80-120			
Xylene (p/m)	183		"	200		91.5	80-120			
Xylene (o)	90.5		"	100		90.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	*120*		*"*	*100*		*120*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*102*		*"*	*100*		*102*	*80-120*			
Matrix Spike (EE50903-MS1)	**Source: 5E06008-02**			Prepared: 05/06/05 Analyzed: 05/09/05						
Benzene	2060		ug/kg	2500	ND	82.4	80-120			
Toluene	2150		"	2500	ND	86.0	80-120			
Ethylbenzene	2260		"	2500	ND	90.4	80-120			
Xylene (p/m)	5000		"	5000	ND	100	80-120			
Xylene (o)	2340		"	2500	ND	93.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*117*		*"*	*100*		*117*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*117*		*"*	*100*		*117*	*80-120*			

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 EE50903 - EPA 5030C (GC)										
Matrix Spike Dup (EE50903-MSD1)	**Source: 5E06008-02**			Prepared & Analyzed: 05/06/05						
Benzene	2110		ug/kg	2500	ND	84.4	80-120	2.40	20	
Toluene	2180		"	2500	ND	87.2	80-120	1.39	20	
Ethylbenzene	2300		"	2500	ND	92.0	80-120	1.75	20	
Xylene (p/m)	5310		"	5000	ND	106	80-120	5.83	20	
Xylene (o)	2490		"	2500	ND	99.6	80-120	6.21	20	
Surrogate: a,a,a-Trifluorotoluene	*116*		"	*100*		*116*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*117*		"	*100*		*117*	*80-120*			

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE50901 - General Preparation (Prep)										
Blank (EE50901-BLK1)				Prepared: 05/06/05 Analyzed: 05/09/05						
% Moisture	ND	0.1	%							
Duplicate (EE50901-DUP1)	**Source: 5E06001-01**			Prepared: 05/06/05 Analyzed: 05/09/05						
% Moisture	1.3	0.1	%		1.2			8.00	20	

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
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: 5/9/2005

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

Environmental Labs of Texas

Chain of Custody Form

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

Company Name	Environmental Plus, Inc.
EPI Project Manager	Iain Olness
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	505-394-3481 / 505-394-2601
Client Company	Plains All American
Facility Name	Vacuum 10" to Jal
Project Reference	2002-10248
EPI Sampler Name	Joe Gatts

Bill To

PLAINS ALL AMERICAN PIPELINE, L.P.

Attn: ENV Accounts Payable
PO Box 4648,
Houston, TX 77210-4648

ANALYSIS REQUEST

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	MATRIX: WASTEWATER	MATRIX: SOIL	MATRIX: CRUDE OIL	MATRIX: SLUDGE	MATRIX: OTHER:	PRESERV.: ACID/BASE	PRESERV.: ICE/COOL	PRESERV.: OTHER	SAMPLING: DATE	SAMPLING: TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES ($SO_4^{=}$)	pH	TCLP	OTHER >>>	PAH
5E0604																						
-01 1	EE Bottom SXP 1	G	1			X					X		5-May	12:45	X	X						
-02 2	EE Wall SXP 1	G	1			X					X		5-May	12:49	X	X						
-03 3	EE Bottom SXP 2	G	1			X					X		5-May	12:53	X	X						
-04 4	EE Wall SXP 2	G	1			X					X		5-May	12:59	X	X						
-05 5	EE Bottom SXP 3	G	1			X					X		5-May	13:07	X	X						
-06 6	EE Wall SXP 3	G	1			X					X		5-May	13:15	X	X						
-07 7	EE SXP 4	G	1			X					X		5-May	13:26	X	X						
-08 8	EE SXP 5	G	1			X					X		5-May	13:32	X	X						
-09 9	EE SXP 6	G	1			X					X		5-May	13:40	X	X						
-10 10	EE SXP 7	G	1			X					X		5-May	13:50	X	X						

Sampler Relinquished: Iain Olness — Date: 6 May 05 — Time: 0803 — Received By: Brad Hall

Relinquished by: Brad Hall — Date: 05-06-05 — Time: 1102 — Received By: (lab staff) Jane McMurrey

Delivered by:

Sample Cool & Intact: (Yes) No

Checked By: JMM

E-mail results to: iolness@hotmail.com & cjreynolds@paalp.com

REMARKS: RUSH as per Iain 4.0°C

4oz glass on ice w/labels/seals
seals on cooler

Environmental Labs of Texas

Chain of Custody Form

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

Company Name	Environmental Plus, Inc.
EPI Project Manager	Iain Olness
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	505-394-3481 / 505-394-2601
Client Company	Plains All American
Facility Name	Vacuum 10" to Jal
Project Reference	2002-10248
EPI Sampler Name	Joe Gatts

Bill To

PLAINS ALL AMERICAN PIPELINE, L.P.

Attn: ENV Accounts Payable
PO Box 4648,
Houston, TX 77210-4648

ANALYSIS REQUEST

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	MATRIX: WASTEWATER	MATRIX: SOIL	MATRIX: CRUDE OIL	MATRIX: SLUDGE	MATRIX: OTHER:	PRESERV.: ACID/BASE	PRESERV.: ICE/COOL	PRESERV.: OTHER	SAMPLING: DATE	SAMPLING: TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl^-)	SULFATES ($SO_4^{=}$)	pH	TCLP	OTHER >>>	PAH
SE06 0[illegible]6																						
-11 1	EE SXP 8	G	1			X					X		5-May	14:01	X	X						
-12 2	EE SXP 9	G	1			X					X		5-May	14:10	X	X						
-13 3	EE SXP 10	G	1			X					X		5-May	14:15	X	X						
4																						
5																						
6																						
7																						
8																						
9																						
10																						

Sampler Relinquished: Iain Olness	Date: 5 May 05 Time: 0820	Received By: Brad Hall	E-mail results to: iolness@hotmail.com & cjreynolds@paalp.com
Relinquished by: Brad Hall	Date: 05-06-05 Time: 1102	Received By: (lab staff) Jana McMurry	REMARKS: Rush as per Iain 4.0°C 4oz glass on ice w/labels/seals seals on cooler
Delivered by:	Sample Cool & Intact: (Yes) No	Checked By: JMM	

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Plains Pipeline

Date/Time: 5/16/05 11:30

Order #: 5B06006

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	4.0 C
Shipping container/cooler in good condition?	Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample labels?	Yes	No	
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	Yes	No	
Samples properly preserved?	Yes	No	
Sample bottles intact?	Yes	No	
Preservations documented on Chain of Custody?	Yes	No	
Containers documented on Chain of Custody?	Yes	No	
Sufficient sample amount for indicated test?	Yes	No	
All samples received within sufficient hold time?	Yes	No	
VOC samples have zero headspace?	Yes	No	Not Applicable

Other observations:

Variance Documentation:

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

Regarding:

Corrective Action Taken:

ENVIRONMENTAL LAB OF

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: Vacuum 10" to Jal

Project Number: 2002-10248

Location: None Given

Lab Order Number: 5E19006

Report Date: 05/20/05

Plains All American EH & S	Project: Vacuum 10" to Jal	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2002-10248	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	05/20/05 11:41

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
EE Bottom SXP 1-B	5E19006-01	Soil	05/17/05 13:53	05/19/05 12:00
EE SXP 6-B	5E19006-02	Soil	05/17/05 13:54	05/19/05 12:00
EE SXP 7-B	5E19006-03	Soil	05/17/05 13:55	05/19/05 12:00
EE SXP 9-B	5E19006-04	Soil	05/17/05 13:56	05/19/05 12:00

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EE Bottom SXP 1-B (5E19006-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE51903	05/19/05	05/19/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*81.3 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.7 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE51904	05/19/05	05/19/05	EPA 8015M	
Diesel Range Organics >C12-C35	**35.4**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**35.4**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*75.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*71.2 %*	*70-130*		"	"	"	"	
EE SXP 6-B (5E19006-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE51903	05/19/05	05/19/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0441**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.0281**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*85.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*120 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE51904	05/19/05	05/19/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*79.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*71.4 %*	*70-130*		"	"	"	"	
EE SXP 7-B (5E19006-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE51903	05/19/05	05/19/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*84.9 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.0 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE51904	05/19/05	05/19/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EE SXP 7-B (5E19006-03) Soil									
Surrogate: 1-Chlorooctane		*78.6 %*	*70-130*		*EE51904*	*05/19/05*	*05/19/05*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*71.0 %*	*70-130*		"	"	"	"	
EE SXP 9-B (5E19006-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE51903	05/19/05	05/19/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*90.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE51904	05/19/05	05/19/05	EPA 8015M	
Diesel Range Organics >C12-C35	**76.8**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**76.8**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*75.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*70.4 %*	*70-130*		"	"	"	"	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
EE Bottom SXP 1-B (5E19006-01) Soil									
% Moisture	**6.4**	0.1	%	1	EE52001	05/19/05	05/20/05	% calculation	
EE SXP 6-B (5E19006-02) Soil									
% Moisture	**8.7**	0.1	%	1	EE52001	05/19/05	05/20/05	% calculation	
EE SXP 7-B (5E19006-03) Soil									
% Moisture	**8.3**	0.1	%	1	EE52001	05/19/05	05/20/05	% calculation	
EE SXP 9-B (5E19006-04) Soil									
% Moisture	**12.0**	0.1	%	1	EE52001	05/19/05	05/20/05	% calculation	

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 EE51903 - EPA 5030C (GC)										
Blank (EE51903-BLK1)			Prepared & Analyzed: 05/19/05							
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*92.9*		*ug/kg*	*100*		*92.9*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*102*		*"*	*100*		*102*	*80-120*			
LCS (EE51903-BS1)			Prepared & Analyzed: 05/19/05							
Benzene	96.8		ug/kg	100		96.8	80-120			
Toluene	96.3		"	100		96.3	80-120			
Ethylbenzene	99.2		"	100		99.2	80-120			
Xylene (p/m)	225		"	200		112	80-120			
Xylene (o)	99.9		"	100		99.9	80-120			
Surrogate: a,a,a-Trifluorotoluene	*117*		*"*	*100*		*117*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*114*		*"*	*100*		*114*	*80-120*			
Calibration Check (EE51903-CCV1)			Prepared & Analyzed: 05/19/05							
Benzene	97.4		ug/kg	100		97.4	80-120			
Toluene	88.0		"	100		88.0	80-120			
Ethylbenzene	84.8		"	100		84.8	80-120			
Xylene (p/m)	181		"	200		90.5	80-120			
Xylene (o)	85.0		"	100		85.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	*103*		*"*	*100*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*101*		*"*	*100*		*101*	*80-120*			
Matrix Spike (EE51903-MS1)	**Source: 5E17009-05**		Prepared & Analyzed: 05/19/05							
Benzene	98.3		ug/kg	100	ND	98.3	80-120			
Toluene	92.1		"	100	ND	92.1	80-120			
Ethylbenzene	102		"	100	ND	102	80-120			
Xylene (p/m)	233		"	200	ND	116	80-120			
Xylene (o)	97.2		"	100	ND	97.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	*109*		*"*	*100*		*109*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*118*		*"*	*100*		*118*	*80-120*			

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 EE51903 - EPA 5030C (GC)										
Matrix Spike Dup (EE51903-MSD1)	**Source: 5E17009-05**			Prepared & Analyzed: 05/19/05						
Benzene	93.0		ug/kg	100	ND	93.0	80-120	5.54	20	
Toluene	90.1		"	100	ND	90.1	80-120	2.20	20	
Ethylbenzene	91.4		"	100	ND	91.4	80-120	11.0	20	
Xylene (p/m)	209		"	200	ND	104	80-120	10.9	20	
Xylene (o)	92.0		"	100	ND	92.0	80-120	5.50	20	
Surrogate: a,a,a-Trifluorotoluene	*109*		*"*	*100*		*109*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*118*		*"*	*100*		*118*	*80-120*			
Batch EE51904 - Solvent Extraction (GC)										
Blank (EE51904-BLK1)				Prepared & Analyzed: 05/19/05						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*40.6*		*mg/kg*	*50.0*		*81.2*	*70-130*			
Surrogate: 1-Chlorooctadecane	*36.0*		*"*	*50.0*		*72.0*	*70-130*			
LCS (EE51904-BS1)				Prepared & Analyzed: 05/19/05						
Gasoline Range Organics C6-C12	443	10.0	mg/kg wet	500		88.6	75-125			
Diesel Range Organics >C12-C35	463	10.0	"	500		92.6	75-125			
Total Hydrocarbon C6-C35	906	10.0	"	1000		90.6	75-125			
Surrogate: 1-Chlorooctane	*43.5*		*mg/kg*	*50.0*		*87.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*35.5*		*"*	*50.0*		*71.0*	*70-130*			
Calibration Check (EE51904-CCV1)				Prepared & Analyzed: 05/19/05						
Gasoline Range Organics C6-C12	448		mg/kg	500		89.6	80-120			
Diesel Range Organics >C12-C35	513		"	500		103	80-120			
Total Hydrocarbon C6-C35	961		"	1000		96.1	80-120			
Surrogate: 1-Chlorooctane	*54.1*		*"*	*50.0*		*108*	*70-130*			
Surrogate: 1-Chlorooctadecane	*41.7*		*"*	*50.0*		*83.4*	*70-130*			

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 EE51904 - Solvent Extraction (GC)										
Matrix Spike (EE51904-MS1)	**Source: 5E19006-01**			Prepared & Analyzed: 05/19/05						
Gasoline Range Organics C6-C12	496	10.0	mg/kg dry	534	ND	92.9	75-125			
Diesel Range Organics >C12-C35	605	10.0	"	534	35.4	107	75-125			
Total Hydrocarbon C6-C35	1100	10.0	"	1070	35.4	99.5	75-125			
Surrogate: 1-Chlorooctane	*43.9*		*mg/kg*	*50.0*		*87.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*37.6*		*"*	*50.0*		*75.2*	*70-130*			
Matrix Spike Dup (EE51904-MSD1)	**Source: 5E19006-01**			Prepared & Analyzed: 05/19/05						
Gasoline Range Organics C6-C12	485	10.0	mg/kg dry	534	ND	90.8	75-125	2.24	20	
Diesel Range Organics >C12-C35	618	10.0	"	534	35.4	109	75-125	2.13	20	
Total Hydrocarbon C6-C35	1100	10.0	"	1070	35.4	99.5	75-125	0.00	20	
Surrogate: 1-Chlorooctane	*41.9*		*mg/kg*	*50.0*		*83.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*36.6*		*"*	*50.0*		*73.2*	*70-130*			

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE52001 - General Preparation (Prep)										
Blank (EE52001-BLK1)				Prepared: 05/19/05 Analyzed: 05/20/05						
% Moisture	ND	0.1	%							
Duplicate (EE52001-DUP1)	**Source: 5E19003-01**			Prepared: 05/19/05 Analyzed: 05/20/05						
% Moisture	11.0	0.1	%		11.4			3.57	20	

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: 5/20/2005

Raland K. Tuttle, Lab Manager
Celey D. Keene, Lab Director, Org. Tech Director
Peggy Allen, QA Officer
Jeanne Mc Murrey, Inorg. Tech Director
James L. Hawkins, Chemist/Geologist
Sandra Sanchez, Lab Tech.

Environmental Labs of Texas

Chain of Custody Form

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

Company Name	Environmental Plus, Inc.
EPI Project Manager	Iain Olness
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	505-394-3481 / 505-394-2601
Client Company	Plains All American
Facility Name	Vacuum 10" to Jal
Project Reference	2002-10248
EPI Sampler Name	John Robinson

Bill To

PLAINS ALL AMERICAN PIPELINE, L.P.

Attn: ENV Accounts Payable
PO Box 4648,
Houston, TX 77210-4648

ANALYSIS REQUEST

LAB I.D. (5E19004)	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES ($SO_4^{=}$)	pH	TCLP	OTHER >>>	PAH				
-01 1	EE Bottom SXP 1 - B	G	1			X					X		17-May	13:53	X	X									
-02 2	EE SXP 6 - B	G	1			X					X		17-May	13:54	X	X									
-03 3	EE SXP 7 - B	G	1			X					X		17-May	13:55	X	X									
-04 4	EE SXP 9 - B	G	1			X					X		17-May	13:56	X	X									
5																									
6																									
7																									
8																									
9																									
10																									

Sampler Relinquished: Iain Olness	Date: 18 May 05 Time: 0900	Received By: Felix Hernandez	E-mail results to: iolness@hotmail.com & cjreynolds@paalp.com
Relinquished by: Felix Hernandez	Date: 5-19-05 Time: 1200	Received By: (lab staff) Paula Kelly	REMARKS: 24 HOUR RUSH
Delivered by:	Sample Cool & Intact: Yes (No)	Checked By: 12:00 5/19/05	

4.5°C w/label

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

Client: EPI

Date/Time: 5/19/05 12:00

Order #: SE19006

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	4.5 C
Shipping container/cooler in good condition?	Yes	No	none
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample label(s)	Yes	No	
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	Yes	No	
Samples properly preserved?	Yes	No	
Sample bottles intact?	Yes	No	
Preservations documented on Chain of Custody?	Yes	No	
Containers documented on Chain of Custody?	Yes	No	
Sufficient sample amount for indicated test?	Yes	No	
All samples received within sufficient hold time?	Yes	No	
VOC samples have zero headspace?	Yes	No	Not Applicable

Other observations:

_____

_____

_____

Variance Documentation:

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

Regarding:

_____

_____

_____

Corrective Action Taken:

_____

_____

_____

_____

_____

_____

_____

_____

VIRONMENTAL LAB OF

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: Vacuum 10" to Jal

Project Number: 2002-10248

Location: None Given

Lab Order Number: 5G05006

Report Date: 07/11/05

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

Project: Vacuum 10" to Jal
Project Number: 2002-10248
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
07/11/05 16:53

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WE N-2	5G05006-01	Soil	07/05/05 07:00	07/05/05 13:48
WE N-3	5G05006-02	Soil	07/05/05 07:02	07/05/05 13:48
WE N-5	5G05006-03	Soil	07/05/05 07:05	07/05/05 13:48
WE W-3	5G05006-04	Soil	07/05/05 07:20	07/05/05 13:48
WE W-5	5G05006-05	Soil	07/05/05 07:17	07/05/05 13:48
WE W-9	5G05006-06	Soil	07/05/05 07:14	07/05/05 13:48
WE W-13	5G05006-07	Soil	07/05/05 07:10	07/05/05 13:48
WE W-17	5G05006-08	Soil	07/05/05 07:08	07/05/05 13:48
WE S-1	5G05006-09	Soil	07/05/05 07:26	07/05/05 13:48
WE S-3	5G05006-10	Soil	07/05/05 07:24	07/05/05 13:48
WE E-2	5G05006-11	Soil	07/05/05 07:28	07/05/05 13:48
WE E-4	5G05006-12	Soil	07/05/05 07:32	07/05/05 13:48
WE E-6	5G05006-13	Soil	07/05/05 07:34	07/05/05 13:48
WE E-12	5G05006-14	Soil	07/05/05 07:37	07/05/05 13:48
WE B-1	5G05006-15	Soil	07/05/05 07:45	07/05/05 13:48
WE B-2	5G05006-16	Soil	07/05/05 07:48	07/05/05 13:48
WE B-3	5G05006-17	Soil	07/05/05 07:54	07/05/05 13:48
WE B-4	5G05006-18	Soil	07/05/05 07:59	07/05/05 13:48
WE B-5	5G05006-19	Soil	07/05/05 08:06	07/05/05 13:48
WE B-6	5G05006-20	Soil	07/05/05 08:10	07/05/05 13:48
WE M-B	5G05006-21	Soil	07/05/05 08:15	07/05/05 13:48
WE M-E	5G05006-22	Soil	07/05/05 08:17	07/05/05 13:48

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WE N-2 (5G05006-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50805	07/07/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*93.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.0 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50518	07/05/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*80.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*83.6 %*	*70-130*		"	"	"	"	
WE N-3 (5G05006-02) Soil									
Benzene	**J [0.0220]**	0.0250	mg/kg dry	25	EG50805	07/07/05	07/08/05	EPA 8021B	J
Toluene	**0.0556**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**J [0.0228]**	0.0250	"	"	"	"	"	"	J
Xylene (p/m)	**0.277**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.0325**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*96.7 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*91.3 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50518	07/05/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*80.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*85.6 %*	*70-130*		"	"	"	"	
WE N-5 (5G05006-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50805	07/07/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0659**	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*99.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.9 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**J [7.93]**	10.0	mg/kg dry	1	EG50518	07/05/05	07/06/05	EPA 8015M	J
Diesel Range Organics >C12-C35	**97.0**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**97.0**	10.0	"	"	"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WE N-5 (5G05006-03) Soil									
Surrogate: 1-Chlorooctane		*75.4 %*	*70-130*		*EG50518*	*07/05/05*	*07/06/05*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*88.4 %*	*70-130*		"	"	"	"	
WE W-3 (5G05006-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50805	07/07/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*104 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.4 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50518	07/05/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*80.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*83.4 %*	*70-130*		"	"	"	"	
WE W-5 (5G05006-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50805	07/07/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*103 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.5 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50518	07/05/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*79.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*84.4 %*	*70-130*		"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WE W-9 (5G05006-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50805	07/07/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*104 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.9 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**ND**	10.0	mg/kg dry	1	EG50518	07/05/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	**1060**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**1060**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*76.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*98.4 %*	*70-130*		"	"	"	"	
WE W-13 (5G05006-07) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50805	07/07/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*100 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*89.4 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50518	07/05/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*81.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*83.6 %*	*70-130*		"	"	"	"	
WE W-17 (5G05006-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50805	07/07/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*101 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*108 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WE W-17 (5G05006-08) Soil									
Surrogate: 1-Chlorooctane		*80.6 %*	*70-130*		*EG50604*	*07/06/05*	*07/06/05*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*98.8 %*	*70-130*		"	"	"	"	
WE S-1 (5G05006-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50805	07/07/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*94.4 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*104 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*73.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*90.6 %*	*70-130*		"	"	"	"	
WE S-3 (5G05006-10) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50805	07/07/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*95.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.5 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*81.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*99.2 %*	*70-130*		"	"	"	"	

Plains All American EH & S	Project: Vacuum 10" to Jal	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2002-10248	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	07/11/05 16:53

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WE E-2 (5G05006-11) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50809	07/08/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*103 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.6 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*83.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*101 %*	*70-130*		"	"	"	"	
WE E-4 (5G05006-12) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50809	07/08/05	07/08/05	EPA 8021B	
Toluene	**0.0305**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**J [0.0245]**	0.0250	"	"	"	"	"	"	J
Xylene (p/m)	**0.0930**	0.0250	"	"	"	"	"	"	
Xylene (o)	**ND**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*93.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*82.9 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**17.0**	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	**234**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**251**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*87.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*101 %*	*70-130*		"	"	"	"	
WE E-6 (5G05006-13) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50809	07/08/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*90.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*95.0 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

Organics by GC

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WE E-6 (5G05006-13) Soil									
Surrogate: 1-Chlorooctane		*84.6 %*	*70-130*		*EG50604*	*07/06/05*	*07/06/05*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*103 %*	*70-130*		"	"	"	"	
WE E-12 (5G05006-14) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50809	07/08/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*88.7 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*94.3 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**23.2**	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	**209**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**232**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*92.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*106 %*	*70-130*		"	"	"	"	
WE B-1 (5G05006-15) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50809	07/08/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*94.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.7 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*83.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*98.0 %*	*70-130*		"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WE B-2 (5G05006-16) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50809	07/08/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*89.7 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*84.0 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*76.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*93.6 %*	*70-130*		"	"	"	"	
WE B-3 (5G05006-17) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50809	07/08/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*89.4 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*81.1 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*79.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*96.8 %*	*70-130*		"	"	"	"	
WE B-4 (5G05006-18) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50809	07/08/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*86.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*83.9 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

Organics by GC

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WE B-4 (5G05006-18) Soil									
Surrogate: 1-Chlorooctane		*75.6 %*	*70-130*		*EG50604*	*07/06/05*	*07/06/05*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*90.8 %*	*70-130*		"	"	"	"	
WE B-5 (5G05006-19) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50809	07/08/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*88.9 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*97.8 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*78.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*94.6 %*	*70-130*		"	"	"	"	
WE B-6 (5G05006-20) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50809	07/08/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	**J [0.0200]**	0.0250	"	"	"	"	"	"	J
Xylene (p/m)	**0.104**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.0371**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*85.3 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*106 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*81.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*97.2 %*	*70-130*		"	"	"	"	

Organics by GC

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WE M-B (5G05006-21) Soil									
Benzene	**J [0.0179]**	0.0250	mg/kg dry	25	EG50809	07/08/05	07/08/05	EPA 8021B	J
Toluene	**0.0823**	0.0250	"	"	"	"	"	"	
Ethylbenzene	**0.161**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**1.01**	0.0250	"	"	"	"	"	"	
Xylene (o)	**0.539**	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*90.5 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*98.2 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**240**	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	**3220**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**3460**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*90.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*109 %*	*70-130*		"	"	"	"	
WE M-E (5G05006-22) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50809	07/08/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*85.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*86.1 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	**353**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**353**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*82.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*109 %*	*70-130*		"	"	"	"	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WE N-2 (5G05006-01) Soil									
% Moisture	**14.4**	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE N-3 (5G05006-02) Soil									
% Moisture	**25.1**	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE N-5 (5G05006-03) Soil									
% Moisture	**5.4**	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE W-3 (5G05006-04) Soil									
% Moisture	**21.0**	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE W-5 (5G05006-05) Soil									
% Moisture	**11.2**	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE W-9 (5G05006-06) Soil									
% Moisture	**0.4**	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE W-13 (5G05006-07) Soil									
% Moisture	**49.7**	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE W-17 (5G05006-08) Soil									
% Moisture	**5.2**	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE S-1 (5G05006-09) Soil									
% Moisture	**16.1**	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE S-3 (5G05006-10) Soil									
% Moisture	**18.6**	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE E-2 (5G05006-11) Soil									
% Moisture	**18.2**	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WE E-4 (5G05006-12) Soil									
% Moisture	**12.7**	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE E-6 (5G05006-13) Soil									
% Moisture	**24.3**	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE E-12 (5G05006-14) Soil									
% Moisture	**7.8**	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE B-1 (5G05006-15) Soil									
% Moisture	**19.9**	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE B-2 (5G05006-16) Soil									
% Moisture	**19.9**	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE B-3 (5G05006-17) Soil									
% Moisture	**17.3**	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE B-4 (5G05006-18) Soil									
% Moisture	**19.0**	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE B-5 (5G05006-19) Soil									
% Moisture	**20.2**	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE B-6 (5G05006-20) Soil									
% Moisture	**26.0**	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE M-B (5G05006-21) Soil									
% Moisture	**0.4**	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE M-E (5G05006-22) Soil									
% Moisture	**0.5**	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	

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 EG50518 - Solvent Extraction (GC)										
Blank (EG50518-BLK1)				Prepared & Analyzed: 07/05/05						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*37.6*		*mg/kg*	*50.0*		*75.2*	*70-130*			
Surrogate: 1-Chlorooctadecane	*38.5*		*"*	*50.0*		*77.0*	*70-130*			
LCS (EG50518-BS1)				Prepared & Analyzed: 07/05/05						
Gasoline Range Organics C6-C12	388	10.0	mg/kg wet	500		77.6	75-125			
Diesel Range Organics >C12-C35	571	10.0	"	500		114	75-125			
Total Hydrocarbon C6-C35	959	10.0	"	1000		95.9	75-125			
Surrogate: 1-Chlorooctane	*42.7*		*mg/kg*	*50.0*		*85.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*38.3*		*"*	*50.0*		*76.6*	*70-130*			
Calibration Check (EG50518-CCV1)				Prepared: 07/05/05 Analyzed: 07/06/05						
Gasoline Range Organics C6-C12	484		mg/kg	500		96.8	80-120			
Diesel Range Organics >C12-C35	555		"	500		111	80-120			
Total Hydrocarbon C6-C35	1040		"	1000		104	80-120			
Surrogate: 1-Chlorooctane	*55.9*		*"*	*50.0*		*112*	*70-130*			
Surrogate: 1-Chlorooctadecane	*50.3*		*"*	*50.0*		*101*	*70-130*			
Matrix Spike (EG50518-MS1)	**Source: 5G05004-01**			Prepared & Analyzed: 07/05/05						
Gasoline Range Organics C6-C12	420	10.0	mg/kg dry	506	ND	83.0	75-125			
Diesel Range Organics >C12-C35	544	10.0	"	506	26.0	102	75-125			
Total Hydrocarbon C6-C35	963	10.0	"	1010	26.0	92.8	75-125			
Surrogate: 1-Chlorooctane	*48.8*		*mg/kg*	*50.0*		*97.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*44.8*		*"*	*50.0*		*89.6*	*70-130*			
Matrix Spike Dup (EG50518-MSD1)	**Source: 5G05004-01**			Prepared & Analyzed: 07/05/05						
Gasoline Range Organics C6-C12	427	10.0	mg/kg dry	506	ND	84.4	75-125	1.65	20	
Diesel Range Organics >C12-C35	564	10.0	"	506	26.0	106	75-125	3.61	20	
Total Hydrocarbon C6-C35	990	10.0	"	1010	26.0	95.4	75-125	2.76	20	
Surrogate: 1-Chlorooctane	*49.3*		*mg/kg*	*50.0*		*98.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*45.5*		*"*	*50.0*		*91.0*	*70-130*			

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 EG50604 - Solvent Extraction (GC)										
Blank (EG50604-BLK1)				Prepared & Analyzed: 07/06/05						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*36.9*		*mg/kg*	*50.0*		*73.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*37.7*		*"*	*50.0*		*75.4*	*70-130*			
LCS (EG50604-BS1)				Prepared & Analyzed: 07/06/05						
Gasoline Range Organics C6-C12	379	10.0	mg/kg wet	500		75.8	75-125			
Diesel Range Organics >C12-C35	565	10.0	"	500		113	75-125			
Total Hydrocarbon C6-C35	944	10.0	"	1000		94.4	75-125			
Surrogate: 1-Chlorooctane	*43.5*		*mg/kg*	*50.0*		*87.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*40.2*		*"*	*50.0*		*80.4*	*70-130*			
Calibration Check (EG50604-CCV1)				Prepared & Analyzed: 07/06/05						
Gasoline Range Organics C6-C12	439		mg/kg	500		87.8	80-120			
Diesel Range Organics >C12-C35	546		"	500		109	80-120			
Total Hydrocarbon C6-C35	985		"	1000		98.5	80-120			
Surrogate: 1-Chlorooctane	*51.1*		*"*	*50.0*		*102*	*70-130*			
Surrogate: 1-Chlorooctadecane	*46.0*		*"*	*50.0*		*92.0*	*70-130*			
Matrix Spike (EG50604-MS1)	**Source: 5G05007-05**			Prepared & Analyzed: 07/06/05						
Gasoline Range Organics C6-C12	523	10.0	mg/kg dry	586	ND	89.2	75-125			
Diesel Range Organics >C12-C35	645	10.0	"	586	ND	110	75-125			
Total Hydrocarbon C6-C35	1170	10.0	"	1170	ND	100	75-125			
Surrogate: 1-Chlorooctane	*56.2*		*mg/kg*	*50.0*		*112*	*70-130*			
Surrogate: 1-Chlorooctadecane	*51.2*		*"*	*50.0*		*102*	*70-130*			
Matrix Spike Dup (EG50604-MSD1)	**Source: 5G05007-05**			Prepared & Analyzed: 07/06/05						
Gasoline Range Organics C6-C12	522	10.0	mg/kg dry	586	ND	89.1	75-125	0.191	20	
Diesel Range Organics >C12-C35	619	10.0	"	586	ND	106	75-125	4.11	20	
Total Hydrocarbon C6-C35	1140	10.0	"	1170	ND	97.4	75-125	2.60	20	
Surrogate: 1-Chlorooctane	*56.2*		*mg/kg*	*50.0*		*112*	*70-130*			
Surrogate: 1-Chlorooctadecane	*50.8*		*"*	*50.0*		*102*	*70-130*			

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 EG50805 - EPA 5030C (GC)										
Blank (EG50805-BLK1)				Prepared & Analyzed: 07/07/05						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*115*		*ug/kg*	*100*		*115*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*98.3*		*"*	*100*		*98.3*	*80-120*			
LCS (EG50805-BS1)				Prepared & Analyzed: 07/07/05						
Benzene	111		ug/kg	100		111	80-120			
Toluene	110		"	100		110	80-120			
Ethylbenzene	110		"	100		110	80-120			
Xylene (p/m)	218		"	200		109	80-120			
Xylene (o)	114		"	100		114	80-120			
Surrogate: a,a,a-Trifluorotoluene	*99.4*		*"*	*100*		*99.4*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*99.0*		*"*	*100*		*99.0*	*80-120*			
Calibration Check (EG50805-CCV1)				Prepared & Analyzed: 07/07/05						
Benzene	114		ug/kg	100		114	80-120			
Toluene	113		"	100		113	80-120			
Ethylbenzene	111		"	100		111	80-120			
Xylene (p/m)	220		"	200		110	80-120			
Xylene (o)	116		"	100		116	80-120			
Surrogate: a,a,a-Trifluorotoluene	*112*		*"*	*100*		*112*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*113*		*"*	*100*		*113*	*80-120*			
Matrix Spike (EG50805-MS1)	**Source: 5G05006-09**			Prepared: 07/07/05 Analyzed: 07/08/05						
Benzene	107		ug/kg	100	ND	107	80-120			
Toluene	107		"	100	ND	107	80-120			
Ethylbenzene	109		"	100	ND	109	80-120			
Xylene (p/m)	215		"	200	ND	108	80-120			
Xylene (o)	110		"	100	ND	110	80-120			
Surrogate: a,a,a-Trifluorotoluene	*103*		*"*	*100*		*103*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*104*		*"*	*100*		*104*	*80-120*			

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 EG50805 - EPA 5030C (GC)										
Matrix Spike Dup (EG50805-MSD1)	**Source: 5G05006-09**			Prepared: 07/07/05 Analyzed: 07/08/05						
Benzene	108		ug/kg	100	ND	108	80-120	0.930	20	
Toluene	107		"	100	ND	107	80-120	0.00	20	
Ethylbenzene	105		"	100	ND	105	80-120	3.74	20	
Xylene (p/m)	206		"	200	ND	103	80-120	4.74	20	
Xylene (o)	101		"	100	ND	101	80-120	8.53	20	
Surrogate: a,a,a-Trifluorotoluene	*104*		"	*100*		*104*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*94.0*		"	*100*		*94.0*	*80-120*			
Batch EG50809 - EPA 5030C (GC)										
Blank (EG50809-BLK1)				Prepared & Analyzed: 07/08/05						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*93.1*		*ug/kg*	*100*		*93.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*84.3*		"	*100*		*84.3*	*80-120*			
LCS (EG50809-BS1)				Prepared & Analyzed: 07/08/05						
Benzene	99.0		ug/kg	100		99.0	80-120			
Toluene	99.1		"	100		99.1	80-120			
Ethylbenzene	99.7		"	100		99.7	80-120			
Xylene (p/m)	196		"	200		98.0	80-120			
Xylene (o)	98.3		"	100		98.3	80-120			
Surrogate: a,a,a-Trifluorotoluene	*88.8*		"	*100*		*88.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*90.8*		"	*100*		*90.8*	*80-120*			

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 EG50809 - EPA 5030C (GC)										
Calibration Check (EG50809-CCV1)				Prepared: 07/08/05 Analyzed: 07/11/05						
Benzene	87.0		ug/kg	100		87.0	80-120			
Toluene	85.6		"	100		85.6	80-120			
Ethylbenzene	80.5		"	100		80.5	80-120			
Xylene (p/m)	161		"	200		80.5	80-120			
Xylene (o)	82.6		"	100		82.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*85.6*		*"*	*100*		*85.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*81.4*		*"*	*100*		*81.4*	*80-120*			
Matrix Spike (EG50809-MS1)	**Source: 5G05007-08**			Prepared: 07/08/05 Analyzed: 07/11/05						
Benzene	2080		ug/kg	2500	ND	83.2	80-120			
Toluene	2080		"	2500	ND	83.2	80-120			
Ethylbenzene	2060		"	2500	ND	82.4	80-120			
Xylene (p/m)	4180		"	5000	75.4	82.1	80-120			
Xylene (o)	2070		"	2500	32.8	81.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	*80.1*		*"*	*100*		*80.1*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*82.3*		*"*	*100*		*82.3*	*80-120*			
Matrix Spike Dup (EG50809-MSD1)	**Source: 5G05007-08**			Prepared & Analyzed: 07/08/05						
Benzene	2120		ug/kg	2500	ND	84.8	80-120	1.90	20	
Toluene	2110		"	2500	ND	84.4	80-120	1.43	20	
Ethylbenzene	2170		"	2500	ND	86.8	80-120	5.20	20	
Xylene (p/m)	4210		"	5000	75.4	82.7	80-120	0.728	20	
Xylene (o)	2200		"	2500	32.8	86.7	80-120	6.18	20	
Surrogate: a,a,a-Trifluorotoluene	*81.6*		*"*	*100*		*81.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*84.8*		*"*	*100*		*84.8*	*80-120*			

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG50601 - General Preparation (Prep)										
Blank (EG50601-BLK1)				Prepared: 07/05/05 Analyzed: 07/06/05						
% Moisture	ND	0.1	%							
Duplicate (EG50601-DUP1)		**Source: 5G05001-01**		Prepared: 07/05/05 Analyzed: 07/06/05						
% Moisture	5.1	0.1	%		4.4			14.7	20	

Notes and Definitions

J	Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
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: 7/11/2005

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.

/ Form

Environmental Labs of Texas

Chain of Custody Form

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

Company Name	Environmental Plus, Inc.
EPI Project Manager	Iain Olness
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	505-394-3481 / 505-394-2601
Client Company	Plains All American
Facility Name	Vacuum 10" to Jal
Project Reference	2002-10248
EPI Sampler Name	David Robinson

Bill To

PLAINS ALL AMERICAN PIPELINE, L.P.

Attn: ENV Accounts Payable
PO Box 4648,
Houston, TX 77210-4648

ANALYSIS REQUEST

LAB I.D. 559050816		SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl^-)	SULFATES ($SO_4^{=}$)	pH	TCLP	OTHER >>	PAH			
-11	1	WE E-2	G	1			X					X		05-Jul-05	7:28	X	X									
-12	2	WE E-4	G	1			X					X		05-Jul-05	7:32	X	X									
-13	3	WE E-6	G	1			X					X		05-Jul-05	7:34	X	X									
-14	4	WE E-12	G	1			X					X		05-Jul-05	7:37	X	X									
-15	5	WE B-1	G	1			X					X		05-Jul-05	7:45	X	X									
-16	6	WE B-2	G	1			X					X		05-Jul-05	7:48	X	X									
-17	7	WE B-3	G	1			X					X		05-Jul-05	7:54	X	X									
-18	8	WE B-4	G	1			X					X		05-Jul-05	7:59	X	X									
-19	9	WE B-5	G	1			X					X		05-Jul-05	8:06	X	X									
-20	10	WE B-6	G	1			X					X		05-Jul-05	8:10	X	X									

Sampler Relinquished: Iain Olness	Date 7/5/05 Time 1015	Received By: Aaron Boone	E-mail results to: iolness@hotmail.com & cjreynolds@paalp.com
Relinquished by: Aaron Boone	Date 7/5/05 Time 1543	Received By: (lab staff) Jeanne McMurrey	REMARKS: 4oz glass on ice w/labels & seals on containers 6.0°C
Delivered by:	Sample Cool & Intact: (Yes) No	Checked By:	

Environmental Labs of Texas

Chain of Custody Form

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

Company Name	Environmental Plus, Inc.
EPI Project Manager	Iain Olness
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	505-394-3481 / 505-394-2601
Client Company	Plains All American
Facility Name	Vacuum 10" to Jal
Project Reference	2002-10248
EPI Sampler Name	David Robinson

Bill To

PLAINS ALL AMERICAN PIPELINE, L.P.

Attn: ENV Accounts Payable
PO Box 4648,
Houston, TX 77210-4648

ANALYSIS REQUEST

LAB I.D. 560500	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl^-)	SULFATES (SO_4^-)	pH	TCLP	OTHER >>>	PAH			
~~21~~ 1	WE M-B	G	1			X					X		05-Jul-05	8:15	X	X									
~~22~~ 2	WE M-E	G	1			X					X		05-Jul-05	8:17	X	X									
~~23~~ 3																									
~~24~~ 4																									
~~25~~ 5																									
~~26~~ 6																									
~~27~~ 7																									
8																									
9																									
10																									

Sampler Relinquished: Iain Olness	Date 7/5/05 Time 1015	Received By: Jason Boone	E-mail results to: iolness@hotmail.com & cjreynolds@paalp.com
Relinquished by: Jason Boone	Date 7/5/05 Time 1.43	Received By: (lab staff) Jeanne McMurry	REMARKS: 4oz glass on ice w/labels + seals on containers 6.0°c
Delivered by:	Sample Cool & Intact: (Yes) No	Checked By:	

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: Plains

Date/Time: 7/5/05 2:00

Order #: 5G050006

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	6.0 C
Shipping container/cooler in good condition?	Yes	No	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample label(s)	Yes	No	
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	Yes	No	
Samples properly preserved?	Yes	No	
Sample bottles intact?	Yes	No	
Preservations documented on Chain of Custody?	Yes	No	
Containers documented on Chain of Custody?	Yes	No	
Sufficient sample amount for indicated test?	Yes	No	
All samples received within sufficient hold time?	Yes	No	
VOC samples have zero headspace?	Yes	No	Not Applicable

Other observations:

Variance Documentation:

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

Regarding:

Corrective Action Taken:

IRONMENTAL LAB OF
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: Vacuum 10" to Jal

Project Number: 2002-10248

Location: None Given

Lab Order Number: 5G12009

Report Date: 07/14/05

Plains All American EH & S	Project: Vacuum 10" to Jal	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2002-10248	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	07/14/05 17:06

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WE N-6	5G12009-01	Soil	07/12/05 10:33	07/12/05 15:00

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WE N-6 (5G12009-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG51305	07/13/05	07/13/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	**ND**	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0460**	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*103 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*112 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	**645**	10.0	mg/kg dry	1	EG51207	07/12/05	07/12/05	EPA 8015M	
Diesel Range Organics >C12-C35	**10400**	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	**11000**	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*79.4 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*238 %*	*70-130*		"	"	"	"	*S-04*

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WE N-6 (5G12009-01) Soil									
% Moisture	**5.0**	0.1	%	1	EG51301	07/12/05	07/13/05	% calculation	

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 EG51207 - Solvent Extraction (GC)										
Blank (EG51207-BLK1)				Prepared & Analyzed: 07/12/05						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*37.4*		*mg/kg*	*50.0*		*74.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*35.8*		*"*	*50.0*		*71.6*	*70-130*			
LCS (EG51207-BS1)				Prepared & Analyzed: 07/12/05						
Gasoline Range Organics C6-C12	457	10.0	mg/kg wet	500		91.4	75-125			
Diesel Range Organics >C12-C35	487	10.0	"	500		97.4	75-125			
Total Hydrocarbon C6-C35	944	10.0	"	1000		94.4	75-125			
Surrogate: 1-Chlorooctane	*37.0*		*mg/kg*	*50.0*		*74.0*	*70-130*			
Surrogate: 1-Chlorooctadecane	*35.5*		*"*	*50.0*		*71.0*	*70-130*			
Calibration Check (EG51207-CCV1)				Prepared & Analyzed: 07/12/05						
Gasoline Range Organics C6-C12	570		mg/kg	500		114	80-120			
Diesel Range Organics >C12-C35	571		"	500		114	80-120			
Total Hydrocarbon C6-C35	1140		"	1000		114	80-120			
Surrogate: 1-Chlorooctane	*49.7*		*"*	*50.0*		*99.4*	*70-130*			
Surrogate: 1-Chlorooctadecane	*41.2*		*"*	*50.0*		*82.4*	*70-130*			
Matrix Spike (EG51207-MS1)	**Source: 5G12001-01**			Prepared & Analyzed: 07/12/05						
Gasoline Range Organics C6-C12	572	10.0	mg/kg dry	506	ND	113	75-125			
Diesel Range Organics >C12-C35	597	10.0	"	506	49.8	108	75-125			
Total Hydrocarbon C6-C35	1170	10.0	"	1010	49.8	111	75-125			
Surrogate: 1-Chlorooctane	*48.9*		*mg/kg*	*50.0*		*97.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*40.9*		*"*	*50.0*		*81.8*	*70-130*			
Matrix Spike Dup (EG51207-MSD1)	**Source: 5G12001-01**			Prepared & Analyzed: 07/12/05						
Gasoline Range Organics C6-C12	525	10.0	mg/kg dry	506	ND	104	75-125	8.57	20	
Diesel Range Organics >C12-C35	585	10.0	"	506	49.8	106	75-125	2.03	20	
Total Hydrocarbon C6-C35	1110	10.0	"	1010	49.8	105	75-125	5.26	20	
Surrogate: 1-Chlorooctane	*47.8*		*mg/kg*	*50.0*		*95.6*	*70-130*			
Surrogate: 1-Chlorooctadecane	*40.3*		*"*	*50.0*		*80.6*	*70-130*			

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 EG51305 - EPA 5030C (GC)										
Blank (EG51305-BLK1)				Prepared & Analyzed: 07/13/05						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*87.2*		*ug/kg*	*100*		*87.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*111*		"	*100*		*111*	*80-120*			
LCS (EG51305-BS1)				Prepared & Analyzed: 07/13/05						
Benzene	114		ug/kg	100		114	80-120			
Toluene	115		"	100		115	80-120			
Ethylbenzene	113		"	100		113	80-120			
Xylene (p/m)	202		"	200		101	80-120			
Xylene (o)	120		"	100		120	80-120			
Surrogate: a,a,a-Trifluorotoluene	*87.6*		"	*100*		*87.6*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*112*		"	*100*		*112*	*80-120*			
Calibration Check (EG51305-CCV1)				Prepared: 07/13/05 Analyzed: 07/14/05						
Benzene	109		ug/kg	100		109	80-120			
Toluene	114		"	100		114	80-120			
Ethylbenzene	111		"	100		111	80-120			
Xylene (p/m)	202		"	200		101	80-120			
Xylene (o)	119		"	100		119	80-120			
Surrogate: a,a,a-Trifluorotoluene	*87.8*		"	*100*		*87.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*105*		"	*100*		*105*	*80-120*			
Matrix Spike (EG51305-MS1)	**Source: 5G12007-02**			Prepared: 07/13/05 Analyzed: 07/14/05						
Benzene	116		ug/kg	100	ND	116	80-120			
Toluene	118		"	100	ND	118	80-120			
Ethylbenzene	119		"	100	ND	119	80-120			
Xylene (p/m)	230		"	200	ND	115	80-120			
Xylene (o)	117		"	100	ND	117	80-120			
Surrogate: a,a,a-Trifluorotoluene	*102*		"	*100*		*102*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*110*		"	*100*		*110*	*80-120*			

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 EG51305 - EPA 5030C (GC)										
Matrix Spike Dup (EG51305-MSD1)	**Source: 5G12007-02**			Prepared: 07/13/05 Analyzed: 07/14/05						
Benzene	111		ug/kg	100	ND	111	80-120	4.41	20	
Toluene	117		"	100	ND	117	80-120	0.851	20	
Ethylbenzene	113		"	100	ND	113	80-120	5.17	20	
Xylene (p/m)	207		"	200	ND	104	80-120	10.0	20	
Xylene (o)	118		"	100	ND	118	80-120	0.851	20	
Surrogate: a,a,a-Trifluorotoluene	*85.3*		"	*100*		*85.3*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*106*		"	*100*		*106*	*80-120*			

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG51301 - General Preparation (Prep)										
Blank (EG51301-BLK1)				Prepared: 07/12/05 Analyzed: 07/13/05						
% Moisture	ND	0.1	%							
Duplicate (EG51301-DUP1)		**Source: 5G11013-01**		Prepared: 07/12/05 Analyzed: 07/13/05						
% Moisture	5.2	0.1	%		4.4			16.7	20	

Notes and Definitions

S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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: 7/14/2005

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.

Environmental Labs of Texas

Chain of Custody Form

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

Company Name	Environmental Plus, Inc.
EPI Project Manager	Iain Olness
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	505-394-3481 / 505-394-2601
Client Company	Plains All American
Facility Name	Vacuum 10" to Jal
Project Reference	2002-10248
EPI Sampler Name	Roger Boone

Bill To

PLAINS ALL AMERICAN PIPELINE, L.P.

Attn: ENV Accounts Payable
PO Box 4648,
Houston, TX 77210-4648

ANALYSIS REQUEST

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	MATRIX: WASTEWATER	MATRIX: SOIL	MATRIX: CRUDE OIL	MATRIX: SLUDGE	MATRIX: OTHER:	PRESERV.: ACID/BASE	PRESERV.: ICE/COOL	PRESERV.: OTHER	SAMPLING: DATE	SAMPLING: TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl^-)	SULFATES (SO_4^{-2})	pH	TCLP	OTHER >>>	PAH				
5G12009																										
-9	1 WE N-6	G	1			X					X		12-Jul	10:33	X	X										
	2																									
	3																									
	4																									
	5																									
	6																									
	7																									
	8																									
	9																									
	10																									

Sampler Relinquished: Roger Booze	Date 7-11 Time 11:00	Received By: Aaron Boone
Relinquished by: Aaron Boone	Date 7/12/05 Time 5:00	Received By: (lab staff) Carrie Kelly
Delivered by:	Sample Cool & Intact (Yes) No	Checked By:

E-mail results to: iolness@hotmail.com & cjreynolds@paalp.com

REMARKS:

4oz jar

labels/seal 4.5°C

Environmental Lab of Texas

Variance / Corrective Action Report – Sample Log-In

Client: EPI / Plains

Date/Time: 7/12/05 15:00

Order #: 5G12009

Initials: CR

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	4.5 C
Shipping container/cooler in good condition?	Yes	No	none
Custody Seals intact on shipping container/cooler?	Yes	No	Not present
Custody Seals intact on sample bottles?	Yes	No	Not present
Chain of custody present?	Yes	No	
Sample Instructions complete on Chain of Custody?	Yes	No	
Chain of Custody signed when relinquished and received?	Yes	No	
Chain of custody agrees with sample labels?	Yes	No	
Container labels legible and intact?	Yes	No	
Sample Matrix and properties same as on chain of custody?	Yes	No	
Samples in proper container/bottle?	Yes	No	
Samples properly preserved?	Yes	No	
Sample bottles intact?	Yes	No	
Preservations documented on Chain of Custody?	Yes	No	
Containers documented on Chain of Custody?	Yes	No	
Sufficient sample amount for indicated test?	Yes	No	
All samples received within sufficient hold time?	Yes	No	
VOC samples have zero headspace?	Yes	No	Not Applicable

Other observations:

Variance Documentation:

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

Regarding:

Corrective Action Taken:

ENVIRONMENTAL LAB OF

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: Vacuum 10" to Jal

Project Number: 2002-10248

Location: None Given

Lab Order Number: 5I20006

Report Date: 09/28/05

Plains All American EH & S	Project: Vacuum 10" to Jal	Fax: (432) 687-4914
1301 S. County Road 1150	Project Number: 2002-10248	**Reported:**
Midland TX, 79706-4476	Project Manager: Camille Reynolds	09/28/05 13:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-9 (5')	5I20006-01	Soil	09/16/05 11:30	09/20/05 12:17
MW-9 (10')	5I20006-02	Soil	09/16/05 11:43	09/20/05 12:17
MW-9 (15')	5I20006-03	Soil	09/16/05 11:52	09/20/05 12:17
MW-9 (18')	5I20006-04	Soil	09/16/05 12:04	09/20/05 12:17
MW-9 (20')	5I20006-05	Soil	09/16/05 12:13	09/20/05 12:17

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 (5') (5I20006-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI52303	09/23/05	09/24/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*84.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*111 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI52106	09/21/05	09/22/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*85.0 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*90.6 %*	*70-130*		"	"	"	"	
MW-9 (10') (5I20006-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI52303	09/23/05	09/24/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	**0.0370**	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*86.0 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*115 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI52106	09/21/05	09/21/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*77.6 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*97.0 %*	*70-130*		"	"	"	"	
MW-9 (15') (5I20006-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI52303	09/23/05	09/24/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*87.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*80.0 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI52106	09/21/05	09/21/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	

Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 (15') (5I20006-03) Soil									
Surrogate: 1-Chlorooctane		*74.4 %*	*70-130*		*EI52106*	*09/21/05*	*09/21/05*	*EPA 8015M*	
Surrogate: 1-Chlorooctadecane		*98.4 %*	*70-130*		"	"	"	"	
MW-9 (18') (5I20006-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI52303	09/23/05	09/24/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*80.8 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*85.2 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI52106	09/21/05	09/21/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*76.8 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*96.6 %*	*70-130*		"	"	"	"	
MW-9 (20') (5I20006-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI52303	09/23/05	09/24/05	EPA 8021B	
Toluene	ND	0.0250	"	"	"	"	"	"	
Ethylbenzene	ND	0.0250	"	"	"	"	"	"	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250	"	"	"	"	"	"	
Surrogate: a,a,a-Trifluorotoluene		*97.2 %*	*80-120*		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*90.0 %*	*80-120*		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI52106	09/21/05	09/21/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		*79.2 %*	*70-130*		"	"	"	"	
Surrogate: 1-Chlorooctadecane		*93.8 %*	*70-130*		"	"	"	"	

General Chemistry Parameters by EPA / Standard Methods

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 (5') (5I20006-01) Soil									
% Moisture	**10.0**	0.1	%	1	EI52101	09/21/05	09/21/05	% calculation	
MW-9 (10') (5I20006-02) Soil									
% Moisture	**8.7**	0.1	%	1	EI52101	09/21/05	09/21/05	% calculation	
MW-9 (15') (5I20006-03) Soil									
% Moisture	**8.4**	0.1	%	1	EI52101	09/21/05	09/21/05	% calculation	
MW-9 (18') (5I20006-04) Soil									
% Moisture	**18.3**	0.1	%	1	EI52101	09/21/05	09/21/05	% calculation	
MW-9 (20') (5I20006-05) Soil									
% Moisture	**20.4**	0.1	%	1	EI52101	09/21/05	09/21/05	% calculation	

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 EI52106 - Solvent Extraction (GC)										
Blank (EI52106-BLK1)				Prepared & Analyzed: 09/21/05						
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	*45.4*		*mg/kg*	*50.0*		*90.8*	*70-130*			
Surrogate: 1-Chlorooctadecane	*45.9*		*"*	*50.0*		*91.8*	*70-130*			
LCS (EI52106-BS1)				Prepared & Analyzed: 09/21/05						
Gasoline Range Organics C6-C12	443	10.0	mg/kg wet	500		88.6	75-125			
Diesel Range Organics >C12-C35	564	10.0	"	500		113	75-125			
Total Hydrocarbon C6-C35	1010	10.0	"	1000		101	75-125			
Surrogate: 1-Chlorooctane	*56.1*		*mg/kg*	*50.0*		*112*	*70-130*			
Surrogate: 1-Chlorooctadecane	*48.6*		*"*	*50.0*		*97.2*	*70-130*			
Calibration Check (EI52106-CCV1)				Prepared: 09/21/05 Analyzed: 09/22/05						
Gasoline Range Organics C6-C12	409		mg/kg	500		81.8	80-120			
Diesel Range Organics >C12-C35	499		"	500		99.8	80-120			
Total Hydrocarbon C6-C35	908		"	1000		90.8	80-120			
Surrogate: 1-Chlorooctane	*47.0*		*"*	*50.0*		*94.0*	*0-200*			
Surrogate: 1-Chlorooctadecane	*49.1*		*"*	*50.0*		*98.2*	*0-200*			
Matrix Spike (EI52106-MS1)	**Source: 5I20006-01**			Prepared & Analyzed: 09/21/05						
Gasoline Range Organics C6-C12	458	10.0	mg/kg dry	556	ND	82.4	75-125			
Diesel Range Organics >C12-C35	603	10.0	"	556	ND	108	75-125			
Total Hydrocarbon C6-C35	1060	10.0	"	1110	ND	95.5	75-125			
Surrogate: 1-Chlorooctane	*58.7*		*mg/kg*	*50.0*		*117*	*70-130*			
Surrogate: 1-Chlorooctadecane	*49.4*		*"*	*50.0*		*98.8*	*70-130*			
Matrix Spike Dup (EI52106-MSD1)	**Source: 5I20006-01**			Prepared & Analyzed: 09/21/05						
Gasoline Range Organics C6-C12	455	10.0	mg/kg dry	556	ND	81.8	75-125	0.657	20	
Diesel Range Organics >C12-C35	603	10.0	"	556	ND	108	75-125	0.00	20	
Total Hydrocarbon C6-C35	1060	10.0	"	1110	ND	95.5	75-125	0.00	20	
Surrogate: 1-Chlorooctane	*57.1*		*mg/kg*	*50.0*		*114*	*70-130*			
Surrogate: 1-Chlorooctadecane	*47.1*		*"*	*50.0*		*94.2*	*70-130*			

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 EI52303 - EPA 5030C (GC)										
Blank (EI52303-BLK1)				Prepared: 09/23/05 Analyzed: 09/24/05						
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	*32.3*		*ug/kg*	*40.0*		*80.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*32.4*		*"*	*40.0*		*81.0*	*80-120*			
LCS (EI52303-BS1)				Prepared & Analyzed: 09/23/05						
Benzene	43.2		ug/kg	50.0		86.4	80-120			
Toluene	42.0		"	50.0		84.0	80-120			
Ethylbenzene	45.1		"	50.0		90.2	80-120			
Xylene (p/m)	82.6		"	100		82.6	80-120			
Xylene (o)	47.1		"	50.0		94.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	*35.6*		*"*	*40.0*		*89.0*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*41.4*		*"*	*40.0*		*104*	*80-120*			
Calibration Check (EI52303-CCV1)				Prepared: 09/23/05 Analyzed: 09/25/05						
Benzene	41.4		ug/kg	50.0		82.8	80-120			
Toluene	40.0		"	50.0		80.0	80-120			
Ethylbenzene	42.8		"	50.0		85.6	80-120			
Xylene (p/m)	81.9		"	100		81.9	80-120			
Xylene (o)	45.3		"	50.0		90.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	*36.3*		*"*	*40.0*		*90.8*	*0-200*			
Surrogate: 4-Bromofluorobenzene	*37.1*		*"*	*40.0*		*92.8*	*0-200*			
Matrix Spike (EI52303-MS1)	**Source: 5I20008-14**			Prepared: 09/23/05 Analyzed: 09/25/05						
Benzene	1100		ug/kg	1250	ND	88.0	80-120			
Toluene	1060		"	1250	ND	84.8	80-120			
Ethylbenzene	1140		"	1250	ND	91.2	80-120			
Xylene (p/m)	2090		"	2500	ND	83.6	80-120			
Xylene (o)	1140		"	1250	ND	91.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	*37.3*		*"*	*40.0*		*93.2*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*38.3*		*"*	*40.0*		*95.8*	*80-120*			

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 EI52303 - EPA 5030C (GC)										
Matrix Spike Dup (EI52303-MSD1)	**Source: 5I20008-14**			Prepared: 09/23/05 Analyzed: 09/25/05						
Benzene	1040		ug/kg	1250	ND	83.2	80-120	5.61	20	
Toluene	1030		"	1250	ND	82.4	80-120	2.87	20	
Ethylbenzene	1100		"	1250	ND	88.0	80-120	3.57	20	
Xylene (p/m)	2030		"	2500	ND	81.2	80-120	2.91	20	
Xylene (o)	1110		"	1250	ND	88.8	80-120	2.67	20	
Surrogate: a,a,a-Trifluorotoluene	*36.7*		"	*40.0*		*91.8*	*80-120*			
Surrogate: 4-Bromofluorobenzene	*37.4*		"	*40.0*		*93.5*	*80-120*			

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EI52101 - General Preparation (Prep)										
Blank (EI52101-BLK1)				Prepared & Analyzed: 09/21/05						
% Solids	100		%							
Duplicate (EI52101-DUP1)		**Source: 5I19030-01**		Prepared & Analyzed: 09/21/05						
% Solids	84.7		%		84.6			0.118	20	
Duplicate (EI52101-DUP2)		**Source: 5I19032-04**		Prepared & Analyzed: 09/21/05						
% Solids	95.8		%		94.1			1.79	20	
Duplicate (EI52101-DUP3)		**Source: 5I20008-07**		Prepared & Analyzed: 09/21/05						
% Solids	92.6		%		92.9			0.323	20	

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: 9/28/2005

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.

Environmental Labs of Texas

Chain of Custody Form

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

Company Name	Environmental Plus, Inc.
EPI Project Manager	Iain Olness
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	505-394-3481 / 505-394-2601
Client Company	Plains All American
Facility Name	Vacuum 10" to Jal
Project Reference	2002-10248
EPI Sampler Name	Iain Olness

Bill To

PLAINS ALL AMERICAN PIPELINE, L.P.

Attn: ENV Accounts Payable
PO Box 4648,
Houston, TX 77210-4648

ANALYSIS REQUEST

LAB I.D. (SJ20006)	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO_4^{-2})	pH	TCLP	OTHER >>>	PAH			
-01	1 MW-9 (5')	G	1			X					X		16-Sep-05	11:30	X	X									
-02	2 MW-9 (10')	G	1			X					X		16-Sep-05	11:43	X	X									
-03	3 MW-9 (15')	G	1			X					X		16-Sep-05	11:52	X	X									
-04	4 MW-9 (18')	G	1			X					X		16-Sep-05	12:04	X	X									
-05	5 MW-9 (20')	G	1			X					X		16-Sep-05	12:13	X	X									
	6																								
	7																								
	8																								
	9																								
	10																								

Sampler Relinquished: Iain Olness	Date 9/20/05 Time 0815	Received By: Aaron Boone	E-mail results to: iolness@hotmail.com & cjreynolds@paalp.com
Relinquished by: Aaron Boone	Date 9-20-05 Time 12:17	Received By: (lab staff) Carrie Kelly	REMARKS: iolnessee@aplins.net 3.5°C 4oz
Delivered by:	Sample Cool & Intact: Yes / No	Checked By:	labels/seal

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

Client: EPL/Plains

Date/Time: 9/20/05 12:15

Order #: 5I20006

Initials: CK

Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	3.5 C
Shipping container/cooler in good condition?	~~Yes~~	No	
Custody Seals intact on shipping container/cooler?	Yes	No	~~Not present~~
Custody Seals intact on sample bottles?	~~Yes~~	No	Not present
Chain of custody present?	~~Yes~~	No	
Sample Instructions complete on Chain of Custody?	~~Yes~~	No	
Chain of Custody signed when relinquished and received?	~~Yes~~	No	
Chain of custody agrees with sample label(s)	~~Yes~~	No	
Container labels legible and intact?	~~Yes~~	No	
Sample Matrix and properties same as on chain of custody?	~~Yes~~	No	
Samples in proper container/bottle?	~~Yes~~	No	
Samples properly preserved?	~~Yes~~	No	
Sample bottles intact?	~~Yes~~	No	
Preservations documented on Chain of Custody?	~~Yes~~	No	
Containers documented on Chain of Custody?	~~Yes~~	No	
Sufficient sample amount for indicated test?	~~Yes~~	No	
All samples received within sufficient hold time?	~~Yes~~	No	
VOC samples have zero headspace?	~~Yes~~	No	Not Applicable

Other observations:

Variance Documentation:

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

Regarding:

Corrective Action Taken:

APPENDIX C

MONITOR WELL MW-9

SOIL BORING LOG SHEET

Log Of Test Borings

(NOTE - Page 1 of 2)

ENVIRONMENTAL PLUS, INC.
STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES
EUNICE, NM
505-394-3481

Project Number: Plains Marketing, L.P. - 2002-10248

Project Name: Vacuum 10" to Jal

Location: UL - M, Section 20, T 19 S, R 37 E

Boring Number: MW-9 | Surface Elevation: -

Start Date: 09/16/05 Time: 1120

Completion Date: 09/16/05 Time: 1234

Sample # and Time	Sample Type	Recovery (inches)	Moisture	PID Readings (ppm)	U.S.C.S. Symbol	Depth (feet)	Description
							0.67' Sandy Loam Topsoil
							CALICHE, White to Tan, Soft to Hard
1130	Core	12	Dry	21.4	SP	5	
1143	Core	12	Dry	17.1	SP	10	
1152	Core	8	Damp	13.6	--	15	
1204	Core	10	Moist	10.6	CL	20	Red Brown, Soft to Hard, CLAY WITH SOME TRACE SILT AND SAND
1213	Core	10	Moist	8.4	CL	25	
						30	
						35	

Log Of Test Borings

(NOTE - Page 2 of 2)

ENVIRONMENTAL PLUS, INC.
STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES
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Boring Number: MW-9 | Surface Elevation: -

Start Date: 09/16/05 **Time:** 1120

Completion Date: 09/16/05 **Time:** 1234

Sample # and Time	Sample Type	Recovery (inches)	Moisture	PID Readings (ppm)	U.S.C.S. Symbol	Depth (feet)	Description
							Red Brown, Soft to Hard, CLAY WITH SOME TRACE SILT AND SAND
						35	
							End of Boring at 35.0'
						40	
						45	
						50	
						55	
						60	

Water Level Measurements (feet)

Date	Time	Sample Depth	Casing Depth	Cave-in Depth	Water Level
09/16/05	1445	-	-	-	27.6

Drilling Method: Air Rotary 5.0" OD

Backfill Method: MW-9 Installed

Field Representative: IAO