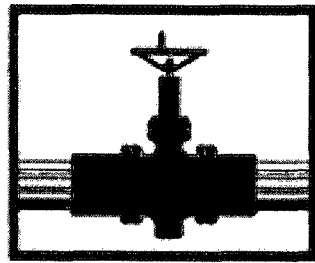


1R - 395

# REPORTS

DATE:

2/2006



**PLAINS**  
**ALL AMERICAN**  
**PIPELINE, L.P.**

*Report is on  
the L-Drive*

# **2005 ANNUAL MONITORING REPORT**

**LIVINGSTON LINE – BOB MCCASLAND**

**PLAINS REF: 2001-11043**

**(COMPANY #231735)**

*1R-395*

**NE¼ OF THE SW¼ OF SECTION 3, TOWNSHIP 21 SOUTH, RANGE 37 EAST**

**LEA COUNTY, NEW MEXICO**

**~5 MILES NORTH-NORTHEAST (356°) OF**

**EUNICE, LEA COUNTY, NEW MEXICO**

**LATITUDE: N32° 30' 18.78"**

**LONGITUDE: W103° 09' 6.48"**

**FEBRUARY 2006**

**PREPARED BY:**

***Environmental Plus, Inc.***

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Eunice, NM 88231

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## Distribution List

### 2005 Annual Monitoring Report

Livingston Line - Bob McCasland

Plains Reference: 2001-11043

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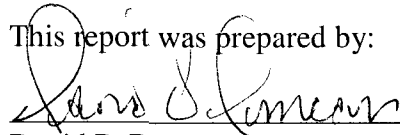
## STANDARD OF CARE

### Annual Monitoring Report

Livingston Line – Bob McCasland  
Ref. #2001-11043

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), NMOCD Unlined Surface Impoundment Closure Guidelines (February, 1993) and 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 this 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. This report was prepared or reviewed by a certified EPI professional with a background in engineering, environmental and/or natural sciences.

This report was prepared by:



David P. Duncan  
Civil Engineer

8 March 2006  
Date

This report was reviewed by:



Iain A. Olness, P.G.  
Hydrogeologist

8 March 2006  
Date

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## **I. Background**

The "Livingston Line – Bob McCasland" (Ref. #2001-11043) release site is located approximately five (5) miles north-northeast of Eunice in Lea County, New Mexico, at an elevation of approximately 3,427 feet above mean sea level (reference *Figures 1 and 2*). The site is located in the northeast quarter of the southwest quarter of section 3, range 27 east, township 21 south within the Monument Draw drainage feature. There are no residences located within a 1,000-foot radius of the release site. An abandoned Shell Pipeline pump station is located in the vicinity of the release (reference *Figure 3*).

On July 13, 2001, approximately four barrels (4-bbls) of crude oil were released from the Livingston Ridge to Hugh four-inch (4") diameter steel pipeline. The release covered an area of approximately 1,600 square feet (ft<sup>2</sup>) of pipeline right-of-way and caliche road. The cause of the release was probably a result of internal corrosion in the four-inch (4") diameter steel pipeline.

During initial investigative activities conducted from August 16-22, 2001, which included advancement of seventeen (17) soil borings, it was determined groundwater, situated approximately 30 feet below ground surface (bgs), had been impacted. On discovery of impacted groundwater, three (3) groundwater monitoring wells (MW-1, MW-2 and MW-3) were installed around the release area to delineate the extent and magnitude of contaminants. Samples collected from the groundwater monitoring well network indicated groundwater was impacted above New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standards. To further delineate the lateral extent of contamination, three (3) additional groundwater monitoring wells (MW-4, MW-5 and MW-6) were installed at the release site. Monitoring of the network revealed the presence of phase separated hydrocarbons (PSH) in groundwater monitoring well MW-4. Investigative activities completed with respect to this release helped determine groundwater impacts were likely due to historic releases associated with the former pumping station located adjacent to the release site.

During December 2001, approximately 11,445 cubic yards of hydrocarbon-impacted soil were excavated and stockpiled on-site. Berms were constructed around the stockpiles to prevent runoff. Analytical results for soil samples collected from the excavation indicated presence of contaminants remaining above New Mexico Oil Conservation Division (NMOCD) remedial threshold limits.

Due to the presence of PSH in groundwater monitoring well MW-4, semi-monthly to monthly visits were made to recover PSH. Contaminant concentrations in samples collected from several monitoring wells were above NMWQCC Groundwater Standards which required a quarterly sampling program for the groundwater monitoring network to be initiated.

To further delineate the lateral extent of contaminated groundwater impacting the site, three (3) groundwater monitoring wells (MW-7, MW-8 and MW-9) were installed in June 2004 and two (2) more (MW-10 and MW-11) were installed in November, 2004 (reference *Figure 3*). During installation of these groundwater monitoring wells, soil samples were collected and submitted

to an independent laboratory for quantification of TPH (gasoline and diesel range organics) and BTEX constituents (benzene, toluene, ethylbenzene and total xylenes). Soil samples were submitted to an independent laboratory on June 9, 2004 (MW-7, MW-8 and MW-9) and November 8, 2004 (MW-10 and MW-11). Total BTEX concentrations for soil samples collected from groundwater monitoring wells MW-7, MW-10 and MW-11 were at or below laboratory analytical method detection limits (MDL) while concentrations ranged from 348  $\mu\text{g/Kg}$  in MW-9 (20' - bgs) to 5,393  $\mu\text{g/Kg}$  in MW-8 (25' - bgs). Individual BTEX constituents were below NMOCD threshold limits in all five (5) groundwater monitoring wells bore. TPH concentrations from soil samples collected from groundwater monitoring wells MW-7, MW-10 and MW-11 were at or below laboratory analytical MDL while concentrations ranged from 67.2  $\mu\text{g/KG}$  in MW-9 (25- bgs) to 346  $\mu\text{g/Kg}$  in MW-9 (20' - bgs).

The groundwater monitoring well network was sampled four (4) times in 2004. BTEX concentrations were at or below laboratory analytical MDL in some groundwater monitoring wells (MW-1, MW-3, MW-7 and MW-11), have shown a general decrease in others (MW-6 and MW-9), but are at concentrations which exceed NMWQCC Groundwater Standards in the remaining wells. Benzene is the primary BTEX constituent whose concentration exceeds these Standards. The other BTEX constituents (ethylbenzene, toluene and total xylene) were below NMWQCC Groundwater Standards for the groundwater monitoring wells analyzed in 2004.

Measurement of groundwater levels during 2004 indicated water levels had increased an average of 7.31 feet. PSH levels in impacted groundwater monitoring well MW-4 had fluctuated with thickness ranging from 3.48 feet in January, 2004 to a sheen (i.e., present, but not measurable) by December, 2004. Average thickness of PSH for groundwater monitoring well MW-4 during 2004 was 0.63 feet.

## **II. Field Activities**

The groundwater monitoring well network was sampled on four (4) separate occasions in 2005 (March 21, May 17, August 15 and November 18). Samples collected on March 21, 2005 were submitted to an independent laboratory for the quantification of benzene, toluene, ethylbenzene, total xylenes (BTEX) and poly-aromatic hydrocarbons (PAH). Samples collected during the three (3) other sampling events were submitted to an independent laboratory for quantification of BTEX constituents only (reference *Table 2*).

In addition to the sampling events, six (6) site visits were made (January 3, January 18, February 1, April 21, May 5, and October 5, 2005) to recover PSH and/or obtain water levels from the groundwater monitoring well network. The two inch (2") diameter disposable absorbent sock in groundwater monitoring well MW-4 was changed on January 18, April 21 and December 9, 2005.

## **III. Groundwater Gradient and PSH Thickness**

Prior to bailing, the monitoring wells were gauged to determine depth of groundwater and thickness of any PSH. Measurement of groundwater elevations during 2005 indicated groundwater levels had generally decreased an average of 1.25 vertical feet. PSH levels in impacted

groundwater monitoring well MW-4 had decreased from a skim (i.e., present, but not measurable) on December 21, 2004, to a mere sheen on December 9, 2005. A summary of groundwater elevations and PSH thickness for the groundwater monitoring system is included in *Table 1*.

Based on data collected during the year 2005, groundwater flows in the southeasterly direction (reference *Figures 18, 20, 22 and 24*).

#### **IV. PSH Recovered**

During visits conducted prior to and including 2003 plus the first-half of 2004, recovery of PSH from impacted groundwater monitoring wells was accomplished via bailing by hand. Approximately eighty (80) gallons of PSH were collected through 2003 and approximately thirty (30) gallons in the first-half of 2004. However, as depth of PSH started to decline in the second-half of 2004 and all of 2005, recovery was accomplished using two inch (2") diameter disposable absorbent socks in impacted wells. The use of disposable absorbent socks in the groundwater monitoring wells has made it difficult to determine an exact volume of PSH recovered. As of December 2005, a disposable absorbent sock is in groundwater monitoring well MW-4 only.

#### **V. Groundwater Sampling**

The groundwater monitoring well network, with exception of groundwater monitoring well MW-4, was sampled on March 21, 2005 with samples submitted to an independent laboratory for quantification of BTEX using EPA Method 8260b and PAH using EPA Methods 610 and 8270c (reference *Tables 2 and 3*). Other groundwater monitoring wells were sampled on May 17 (MW-2, MW-5, MW-6, MW-7, MW-9, MW-10 and MW-11), August 15 (MW-1 through MW-11; exception MW-4) and November 18 (MW-2 and MW-4 through MW-11), 2005 in accordance with Plains Pipeline, LP sample reduction program as approved by NMOCD. These samples were submitted to an independent laboratory for quantification of BTEX constituents only using EPA Method 8260b (reference *Table 2*). Groundwater monitoring well MW-4 was sampled only once (November 18, 2005) due to the presence of phase separated hydrocarbons (PSH) during previous quarterly sampling events.

Groundwater monitoring wells were purged a minimum of three (3) well volumes or until dry prior to sampling utilizing dedicated or disposable sample bailers. Collected samples were immediately placed in laboratory provided containers, put on ice and transported under chain-of-custody protocol to an independent laboratory for analyses.

#### **VI. Groundwater Analytical Results**

Analytical results for samples collected from groundwater monitoring well MW-1 indicated BTEX constituents concentrations were below laboratory analytical method detection limit (MDL) for both sampling events (March 21 and August 15, 2005). Also, PAH constituent concentrations were below laboratory analytical MDL for samples collected on March 21, 2005.

Analytical results for samples collected from groundwater monitoring well MW-2 indicated total BTEX concentrations ranged from 199 µg/L to 686 µg/L. Major contributor was benzene, whose concentrations ranged from 145 µg/L to 413 µg/L, which is above New Mexico Water Quality Control Commission (NMWQCC) Groundwater Standard of 10 µg/L. Other BTEX constituent (toluene, ethylbenzene and total xylenes) concentrations, while detectable, were below NMWQCC Groundwater Standards for the four (4) sampling events. Analytical results for PAH samples collected on March 21, 2005, showed most constituent concentrations at or below laboratory analytical MDL. Two (2) exceptions where naphthalene (8.83 µg/L) and phenanthrene (0.325 µg/L) whose total concentrations were below the NMWQCC Groundwater Standard of 30 µg/L.

Analytical results for samples collected from groundwater monitoring well MW-3 were below laboratory MDL for BTEX constituents for the August 15, 2005, annual sampling event. PAH analyses were reported at or below laboratory analytical MDL for each respective analyte concentration on the May 21, 2005, sampling event.

Due to presence of PSH, groundwater monitoring well MW-4 was sampled one (1) time (November 18, 2005). Analytical results for benzene (2,620 µg/L) and total xylenes (748 µg/L) showed concentrations above NMWQCC Groundwater Standard of 10.0 µg/L and 620 µg/L, respectively. Toluene concentrations were below laboratory analytical MDL.

Analytical results for samples collected from groundwater monitoring well MW-5 indicated benzene concentrations ranged from 9.7 µg/L to 30.8 µg/L. The latter concentration for benzene is above NMWQCC Groundwater Standard of 10.0 µg/L. Toluene concentrations ranged from 1.15 µg/L to 1.73 µg/L, while ethylbenzene concentrations ranged from <1.0 µg/L to 4.38 µg/L. Total xylenes concentrations were below laboratory analytical MDL on all four (4) sampling events. Samples were collected for PAH analysis during the March 21, 2005 sampling event, but the sample bottle broke during transit.

Analytical results for samples collected from groundwater monitoring well MW-6 indicated BTEX constituent concentrations below laboratory analytical MDL for all four (4) sampling events. Analytical results for samples collected for PAH analysis on March 21, 2005, indicated concentrations below laboratory analytical MDL for most constituents. The exception was naphthalene (0.089 µg/L) whose concentration was below NMWQCC Groundwater Standard of 30.0 µg/L.

Analytical results for samples collected from groundwater monitoring well MW-7 indicated BTEX constituent concentrations below laboratory analytical MDL for all four (4) sampling events. Analytical results for PAH samples collected on March 21, 2005, indicated concentrations below laboratory analytical MDL for most constituents. Exceptions were naphthalene (0.448 µg/L) and phenanthrene (0.222 µg/L) whose combined concentrations are below NMWQCC Groundwater Standard of 30.0 µg/L.

Analytical results for samples collected from groundwater monitoring well MW-8 showed benzene concentrations ranged from 670 µg/L to 3,410 µg/L with both concentrations above NMWQCC Groundwater Standard of 10.0 µg/L. Toluene concentrations were below laboratory

analytical MDL for all four (4) sampling events. Ethylbenzene concentrations ranged from 29.9 µg/L to 452 µg/L which are below NMWQCC Groundwater Standard of 750 µg/L. Total xylenes concentrations ranged from 16.5 µg/L to 148 µg/L, below NMWQCC Groundwater Standard of 620 µg/L. Analytical results for PAH samples collected on March 21, 2005, indicated concentrations below laboratory analytical MDL for most constituents. Exceptions were naphthalene (5.7 µg/L) and phenanthrene (0.238 µg/L) whose combined concentrations are below NMWQCC Groundwater Standard of 30.0 µg/L.

Analytical results for samples collected from groundwater monitoring well MW-9 indicated benzene concentrations ranged from 3.99 µg/L to 22.8 µg/L with the latter concentration above NMWQCC Groundwater Standard of 10.0 µg/L. Toluene concentrations were below laboratory analytical MDL for all four (4) sampling events. Ethylbenzene concentrations ranged from 14.8 µg/L to 63 µg/L which are below NMWQCC Groundwater Standard of 750 µg/L. Total xylene concentrations ranged from 30.5 µg/L to 88.3 µg/L which are below NMWQCC Groundwater Standard of 620 µg/L. Analytical results for samples collected for PAH on March 21, 2005 showed concentrations below laboratory analytical MDL for most constituents. Exceptions were naphthalene (1.26 µg/L) and phenanthrene (0.068 µg/L) whose combined concentrations are below NMWQCC Groundwater Standard of 30.0 µg/L.

Analytical results for samples collected from groundwater monitoring well MW-10 indicated benzene concentrations ranged from 791 µg/L to 2,170 µg/L. Benzene concentrations for the four (4) sampling events were above NMWQCC Groundwater Standard of 10.0 µg/L. Toluene concentrations ranged from <1.0 µg/L to 14.4 µg/L which are below NMWQCC Groundwater Standard of 750 µg/L. Ethylbenzene concentrations ranged from 74 µg/L to 194 µg/L with concentrations for the four (4) sampling events below NMWQCC Groundwater Standard of 750 µg/L. Total xylene concentrations ranged from 43.7 µg/L to 154.6 µg/L, below NMWQCC Groundwater Standard of 620 µg/L. Analytical results on samples collected for PAH on March 21, 2005, indicated most constituent concentrations below laboratory analytical MDL. Exceptions were naphthalene (7.38 µg/L) and phenanthrene (0.654 µg/L) whose combined concentrations are below NMWQCC Groundwater Standard of 30.0 µg/L.

Analytical results for samples collected from groundwater monitoring well MW-11 showed BTEX constituent concentrations were below laboratory analytical MDL for the four (4) sampling events. Analytical results samples collected for PAH on March 21, 2005, showed all constituent concentrations below laboratory analytical MDL.

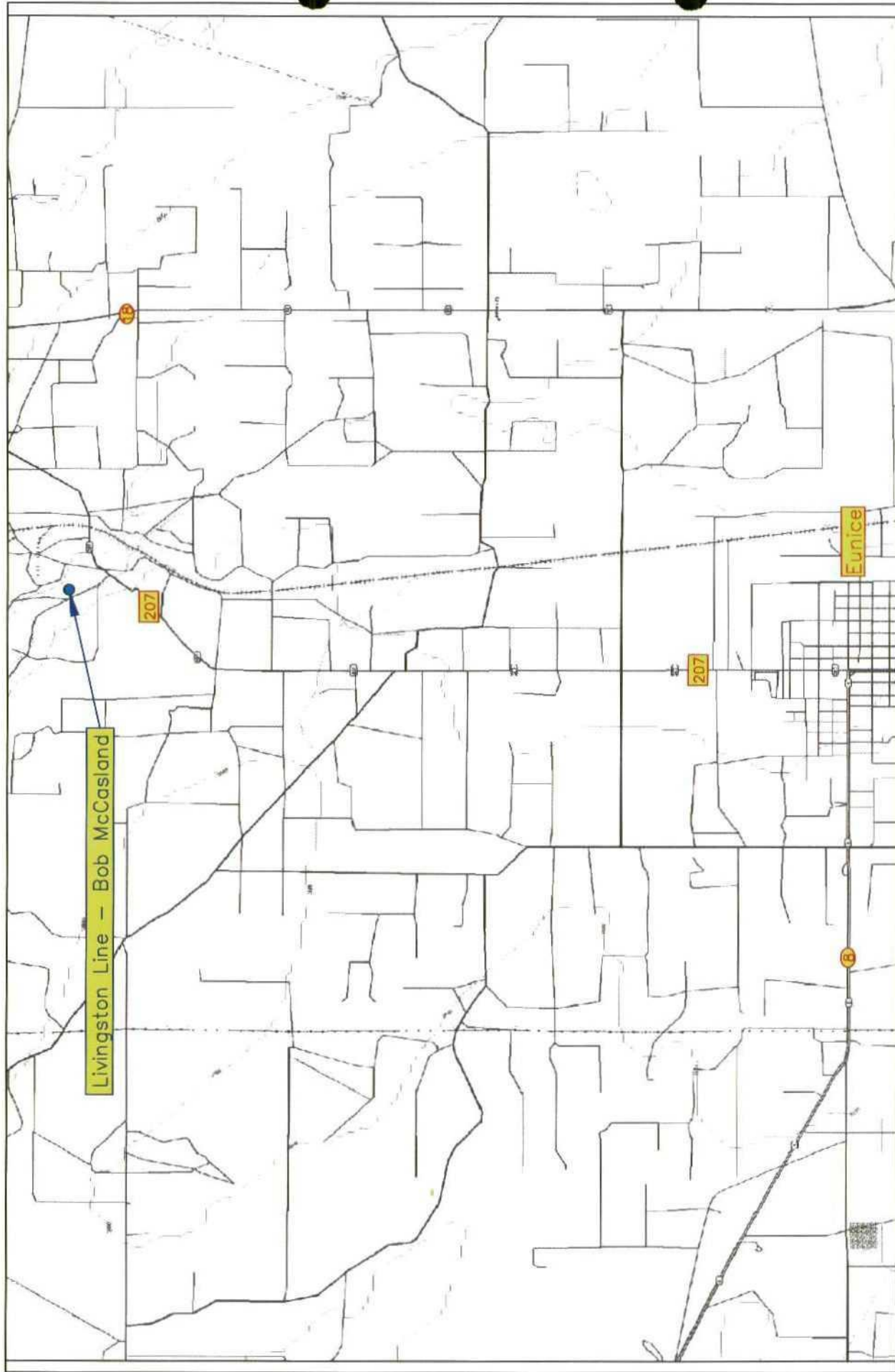
A summary of groundwater analytical results for groundwater monitoring wells MW-1 through MW-11 is included as *Table 2* and 3. Copies of laboratory analytical results for samples collected on March 21, May 17, August 15 and November 18, 2005, are included as *Appendix A*.

## **VII. Recommendations**

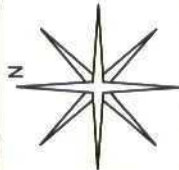
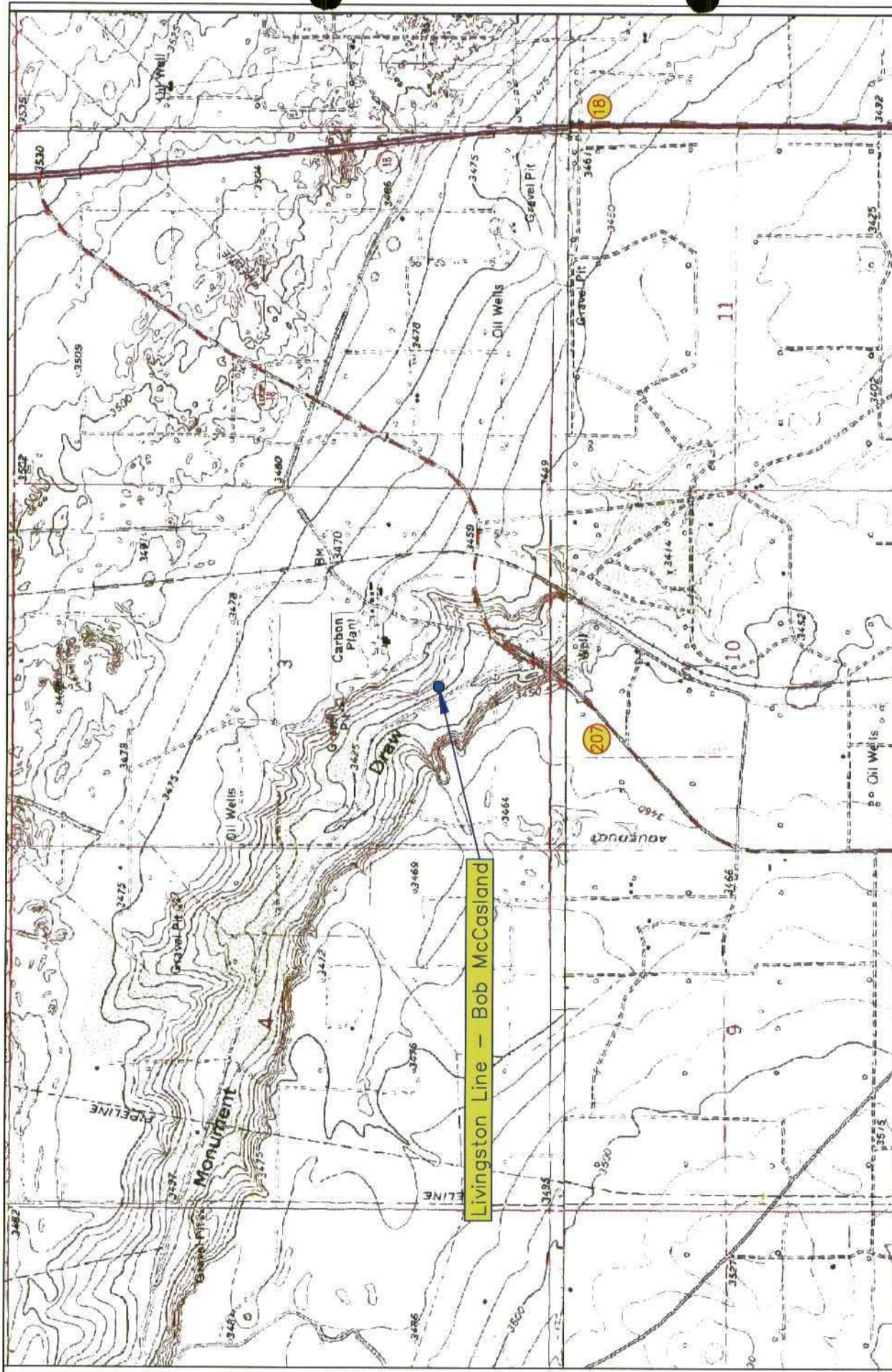
Based on field monitoring and laboratory analytical results of samples collected during 2005 in conjunction with data collected from previous investigations, the following recommendations are made:

- 1) Continue to monitor and recover PSH, if present, from impacted groundwater monitoring well(s) on a monthly basis. Should PSH levels increase in any impacted groundwater monitoring well(s) or any additional well(s) indicate the presence of PSH, the well(s) will then be monitored on a semi-monthly basis.
- 2) Continue to collect samples from the groundwater monitoring well network on a quarterly basis and submit them to an independent laboratory for quantification of BTEX constituents only (Note: Reference *Table 4* for a summary of groundwater sampling recommendations for the site). If PSH is not detected in an impacted groundwater monitoring well(s) during a semi-monthly or monthly sampling event, the well(s) will then be monitored on a quarterly basis.
- 3) Samples from groundwater monitoring wells should be analyzed for the presence of PAH constituents on an annual basis.
- 4) Install one (1) additional groundwater monitoring well one hundred feet (100') southwest of groundwater monitoring well MW-10 (reference *Figure 26*).

# FIGURES

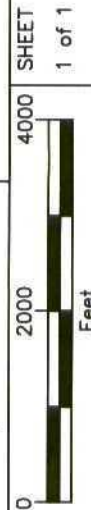


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| <p>Figure 1<br/>Area Map<br/>Plains Pipeline, L.P.<br/>Livingston Line - Bob McCasland</p> | <p>Lea County, New Mexico<br/>NE 1/4 of the SW 1/4, Sec. 3, T21S, R37E<br/>N 32° 30' 18.8" W 103° 09' 6.48"<br/>Elevation: 3,427 feet amsl</p> | <p>DWG By: Iain Olness<br/>April 2004</p> <p>REVISED<br/>Jan 2006</p> <p>8000<br/>4000<br/>0</p> <p>SHEET<br/>1 of 1</p> <p>Feet</p> |
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DWG By: Iain Olness  
April 2004

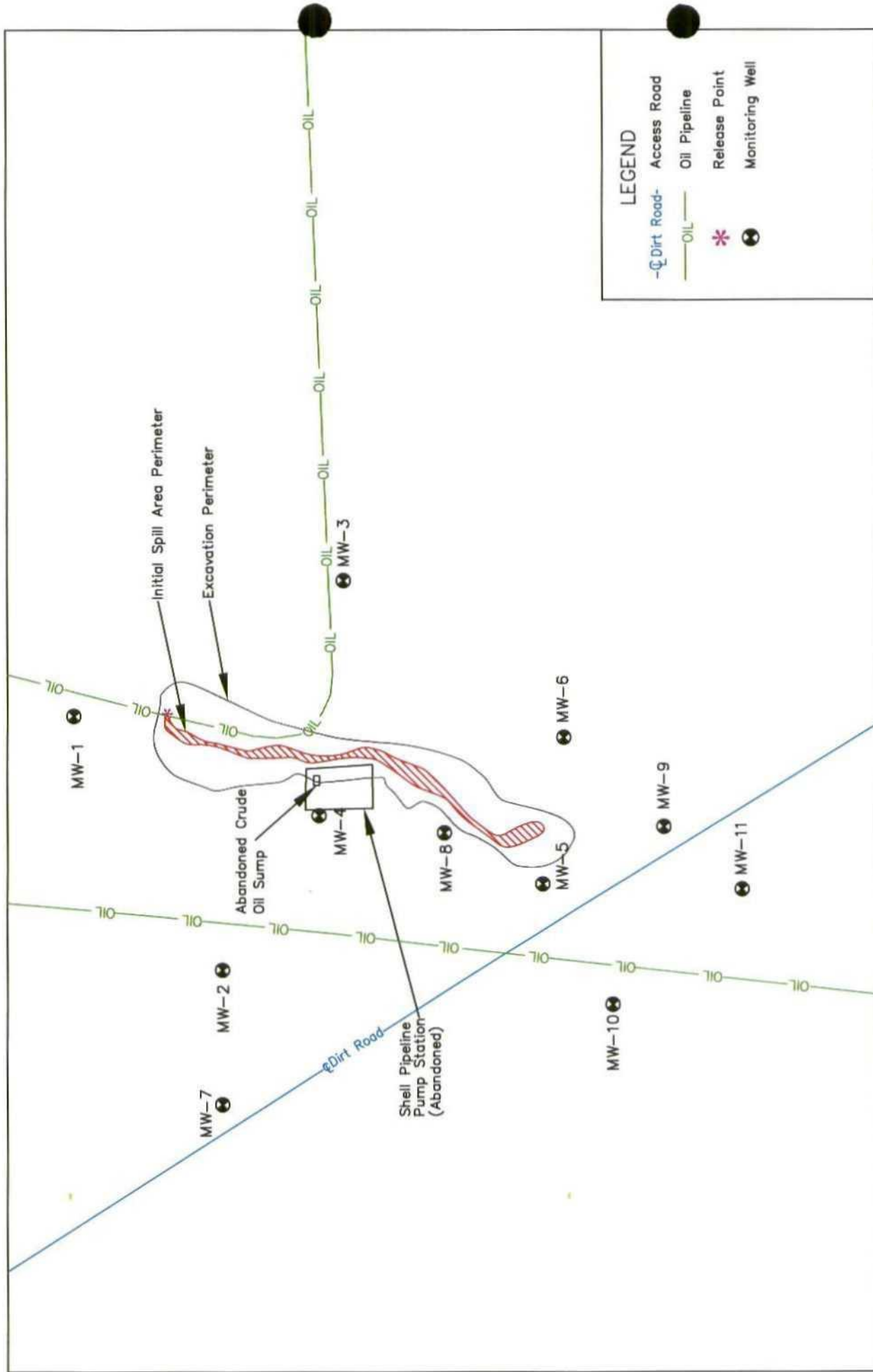
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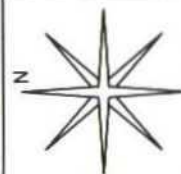
Lea County, New Mexico  
NE 1/4 of the SW 1/4, Sec. 3, T21S, R37E  
N 32° 30' 18.8" W 103° 09' 6.48"  
Elevation: 3,427 feet amsl

Figure 2  
Site Location Map  
Plains Pipeline, L.P.  
Livingston Line - Bob McCasland



# LEGEND

- C- Dirt Road- Access Road
- Oil Pipeline
- Release Point \*
- Monitoring Well



REVISED  
Jan 2006

DWG By: Iain Olness  
April 2004

Lea County, New Mexico  
NE 1/4 of the SW 1/4, Sec. 3, T21S, R37E  
N 32° 30' 18.8" W 103° 09' 6.48"  
Elevation: 3,427 feet amsl

Figure 3  
Site Map  
Plains Pipeline, L.P.  
Livingston Line - Bob McCasland



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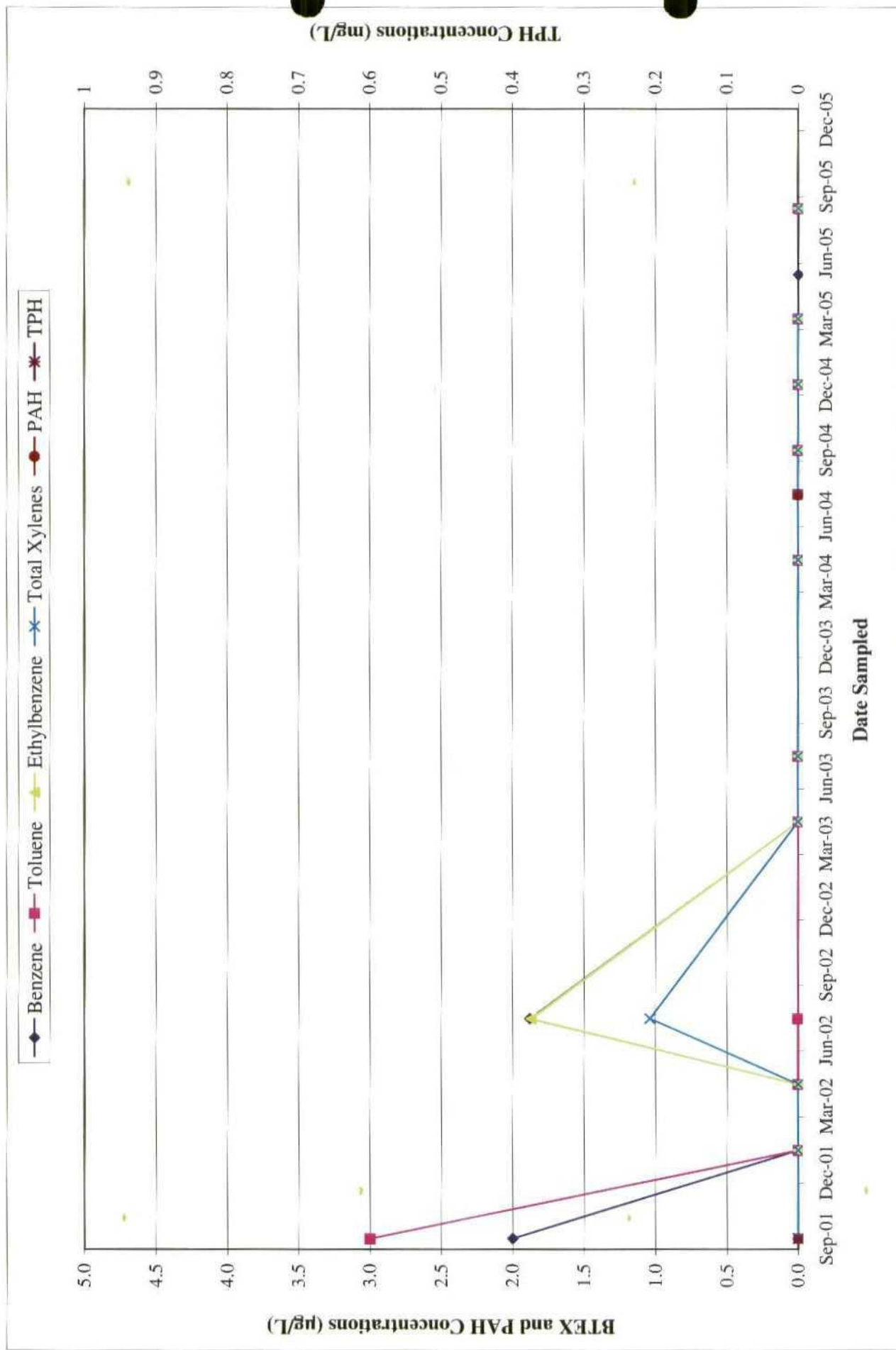


Figure 4: BTEX, PAH and TPH Concentrations in Groundwater Monitoring Well MW-1 from 09/13/01 through 12/31/05, Plains Pipeline, L.P., Livingston Line - Bob McCasland, Lea County, New Mexico.

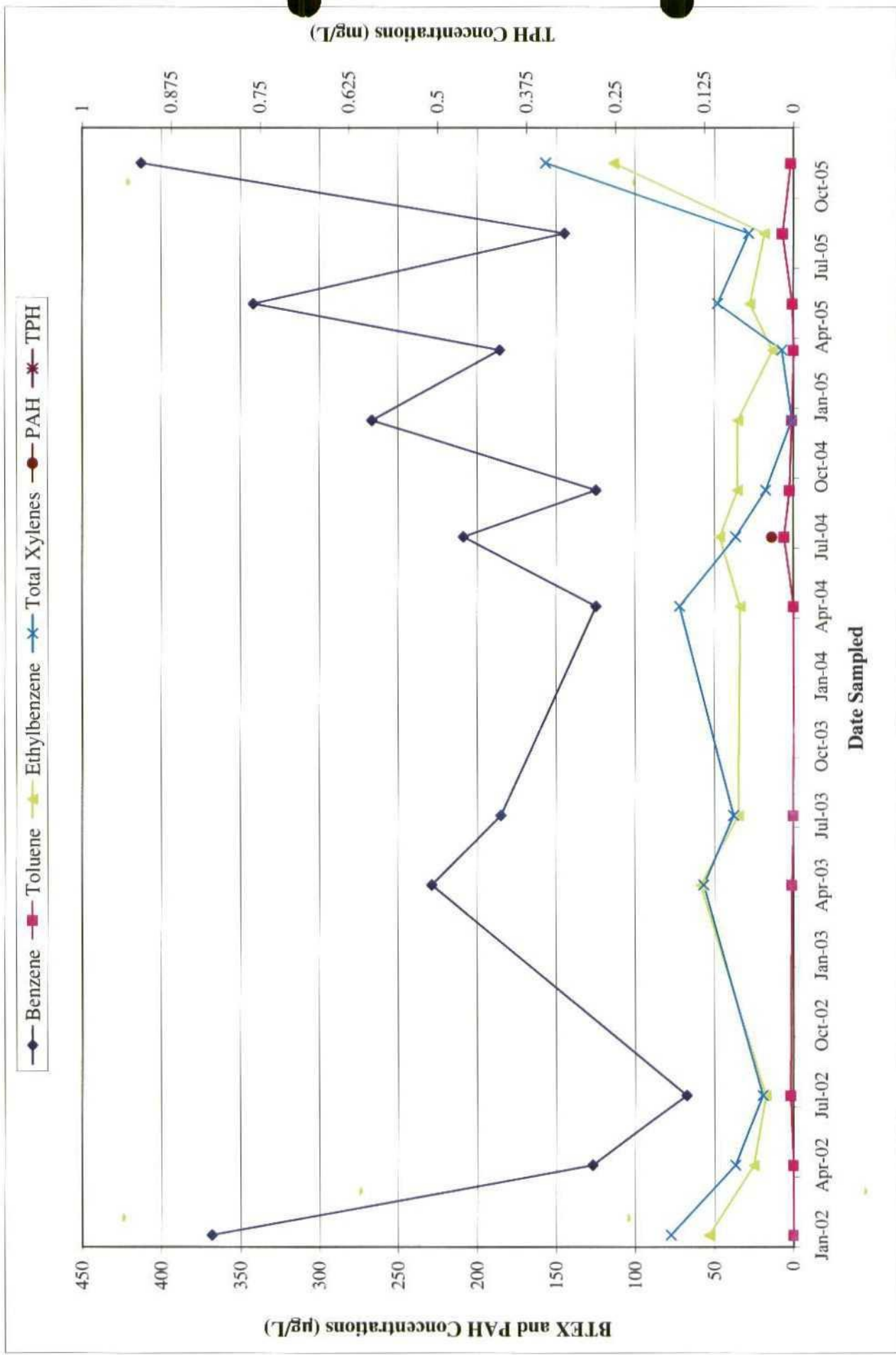


Figure 5: BTEX, PAH and BTEX Concentrations in Groundwater Monitoring Well MW-2 from 01/24/02 through 12/31/05, Plains Pipeline, L.P., Livingston Line - Bob McCasland, Lea County, New Mexico.

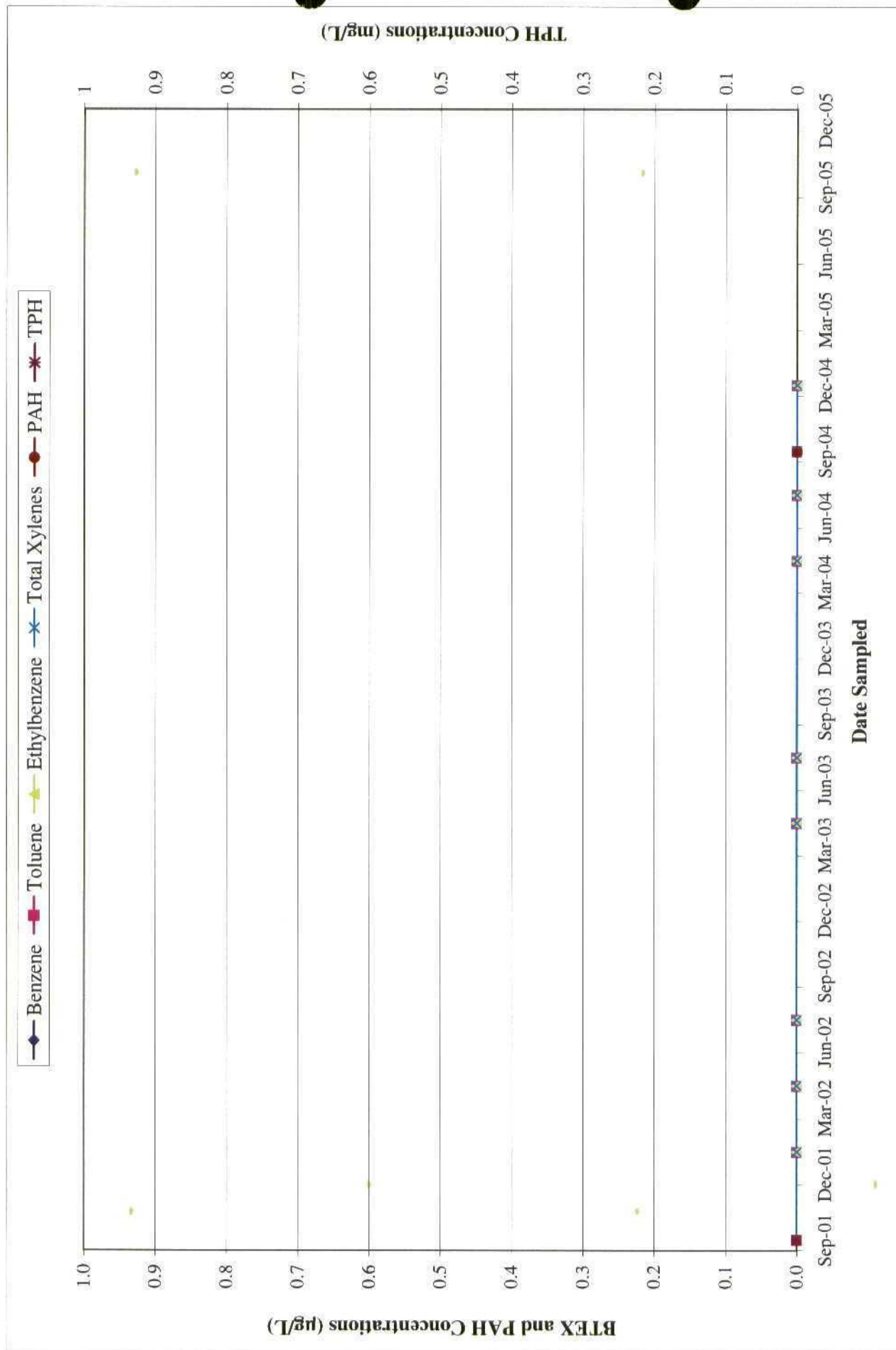


Figure 6: BTEX, PAH and TPH Concentrations in Groundwater Monitoring Well MW-3 from 09/13/01 through 12/31/05, Plains Pipeline, L.P., Livingston Line - Bob McCasland, Lea County, New Mexico.

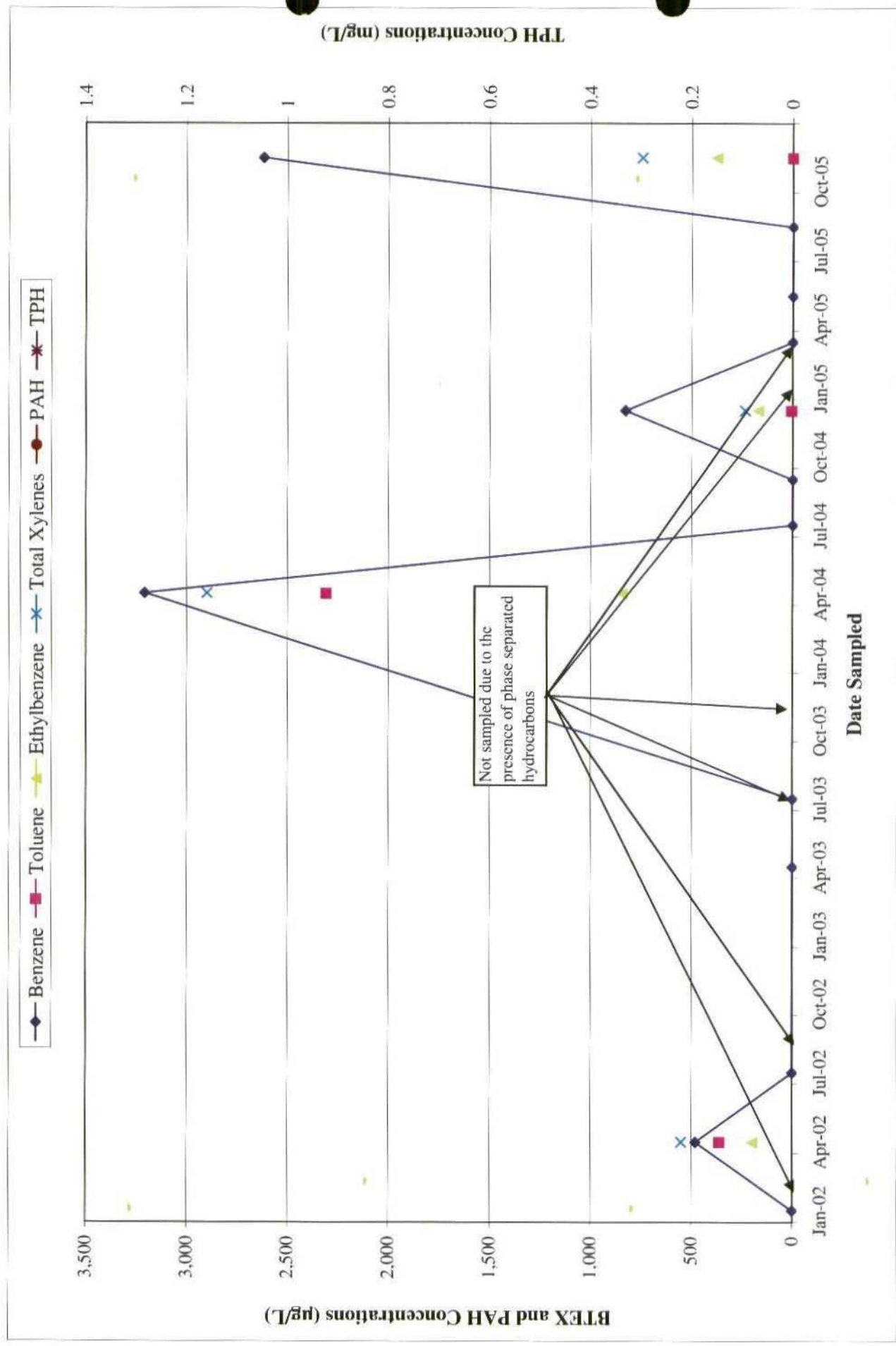


Figure 7: BTEX, PAH and TPH Concentrations in Groundwater Monitoring Well MW-4 from 01/24/02 through 12/31/05, Plains Pipeline, L.P., Livingston Line - Bob McCasland, Lea County, New Mexico.

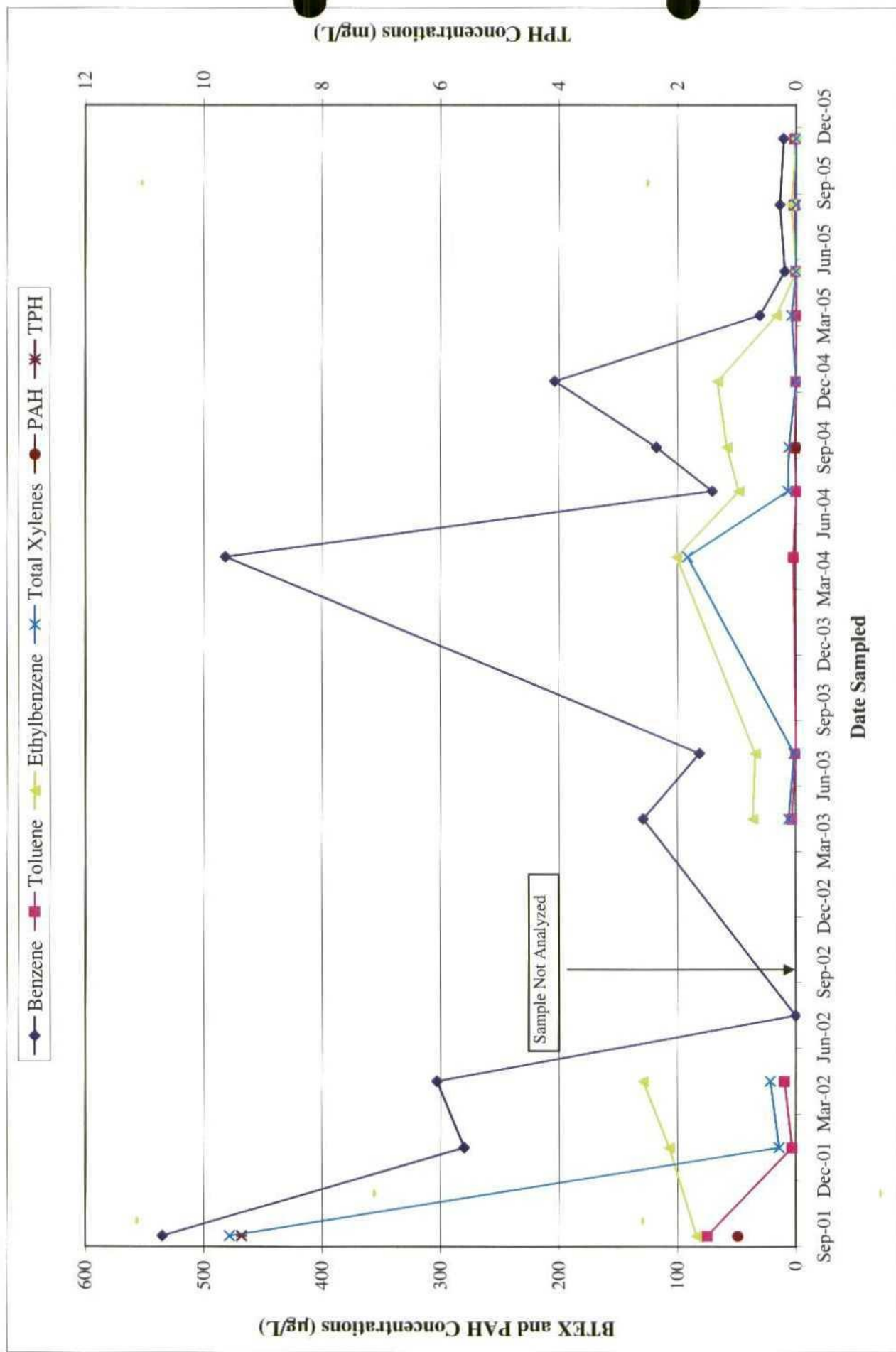


Figure 8: BTEX, PAH and TPH Concentrations in Groundwater Monitoring Well MW-5 from 09/13/01 through 12/31/05, Plains Pipeline, L.P., Livingston Line - Bob McCasland, Lea County, New Mexico.

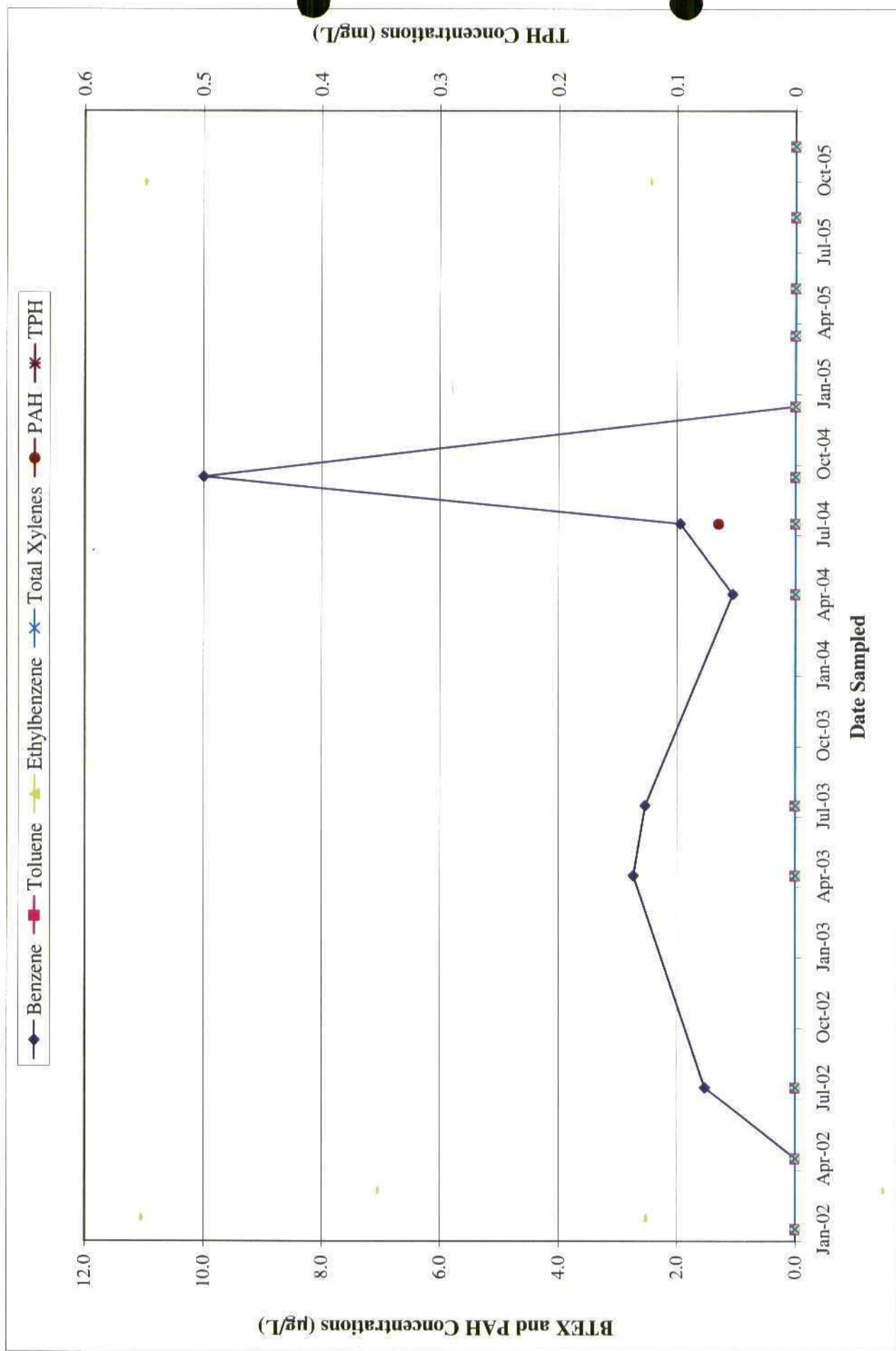


Figure 9: BTEX, PAH and TPH Concentrations in Groundwater Monitoring Well MW-6 from 01/24/02 through 12/31/05, Plains Pipeline, L.P., Livingston Line - Bob McCasland, Lea County, New Mexico.

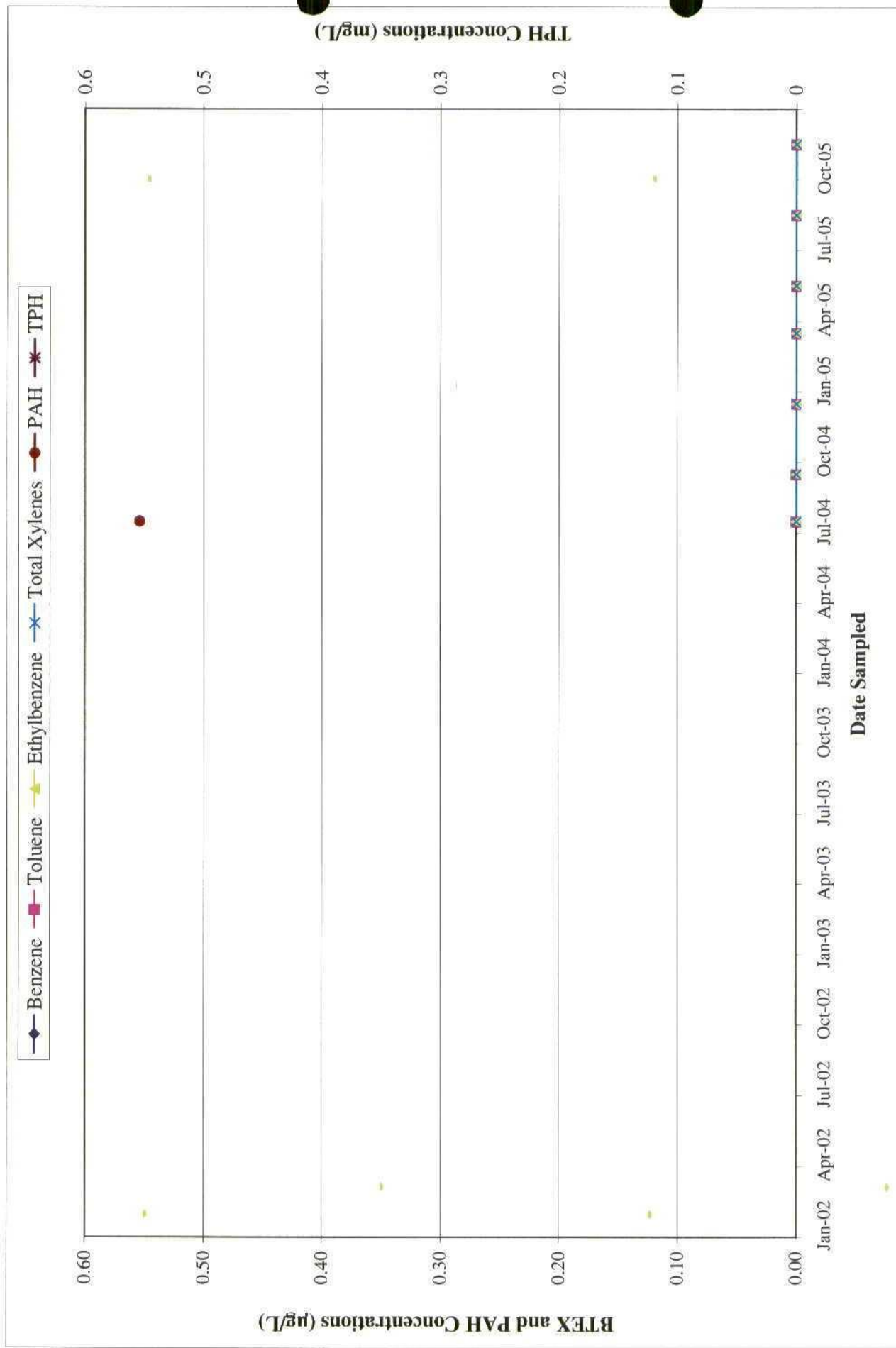


Figure 10: BTEX, PAH and TPH Concentrations in Groundwater Monitoring Well MW-7 from 07/14/04 through 12/31/05, Plains Pipeline, L.P., Livingston Line - Bob McCasland, Lea County, New Mexico.

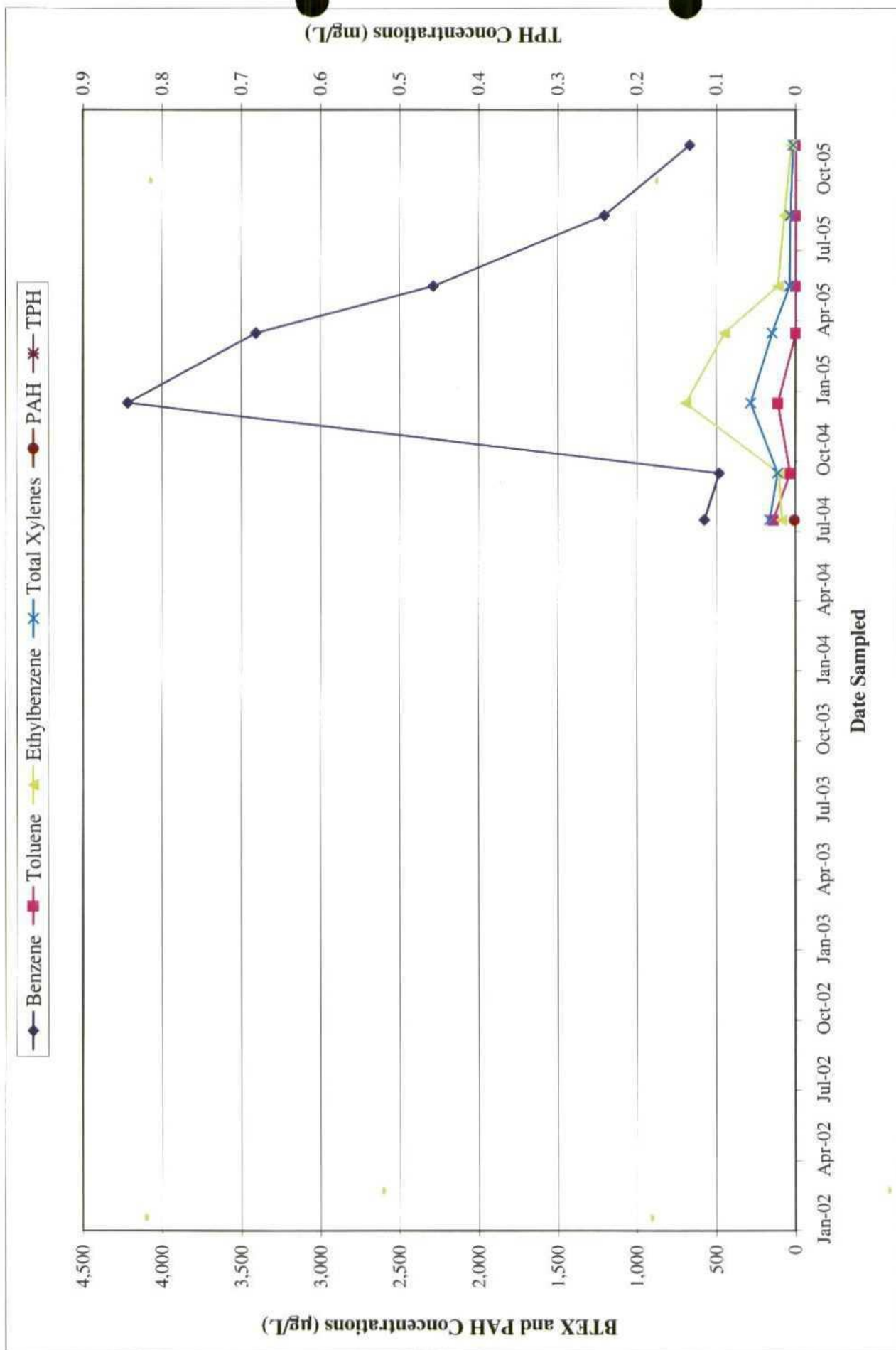


Figure 11: BTEX, PAH and TPH Concentrations in Groundwater Monitoring Well MW-8 from 07/14/04 through 12/31/05, Plains Pipeline, L.P., Livingston Line - Bob McCasland, Lea County, New Mexico.

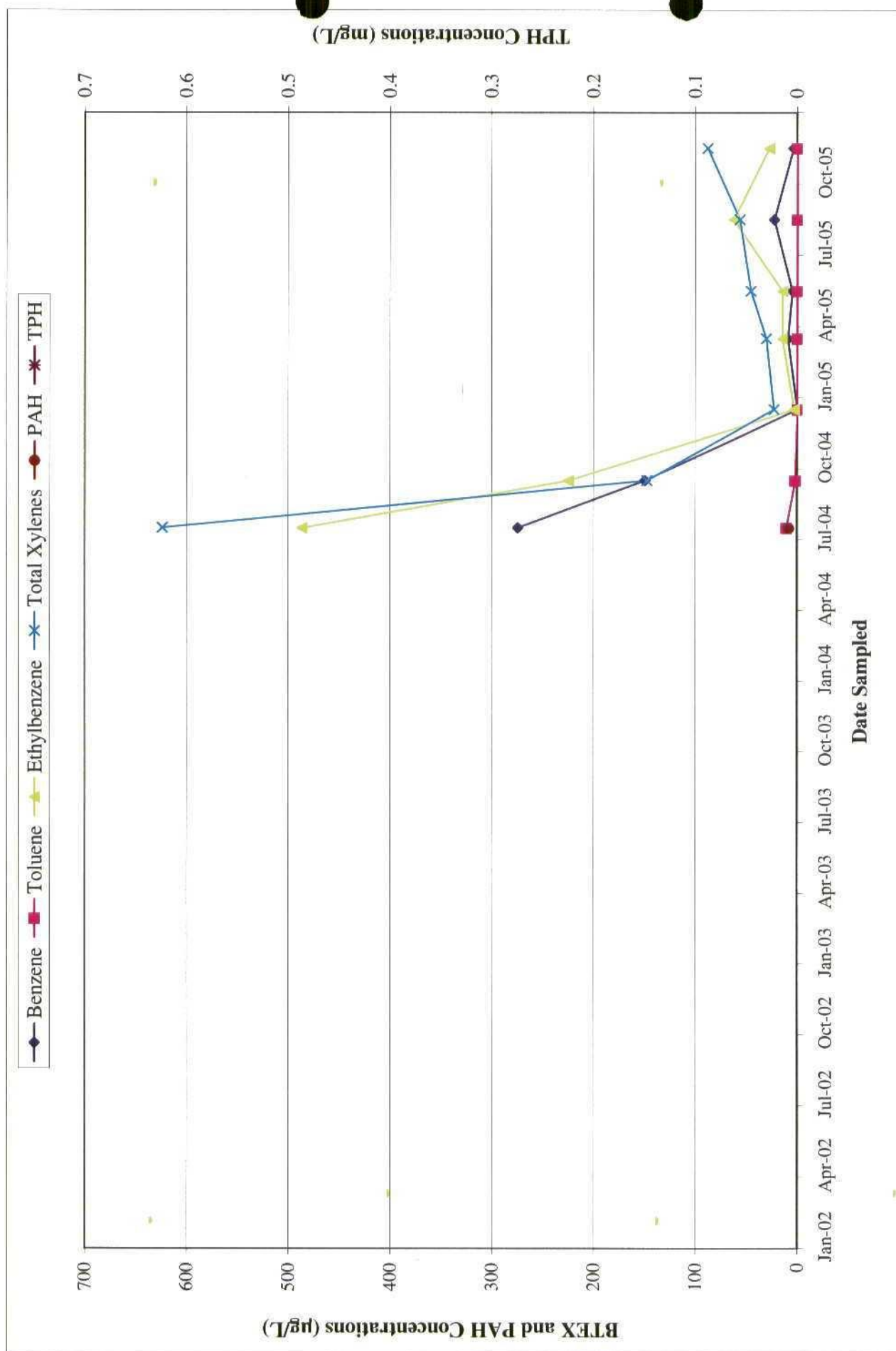


Figure 12: BTEX, PAH and TPH Concentrations in Groundwater Monitoring Well MW-9 from 07/14/04 through 12/31/05, Plains Pipeline, L.P., Livingston Line - Bob McCasland, Lea County, New Mexico.

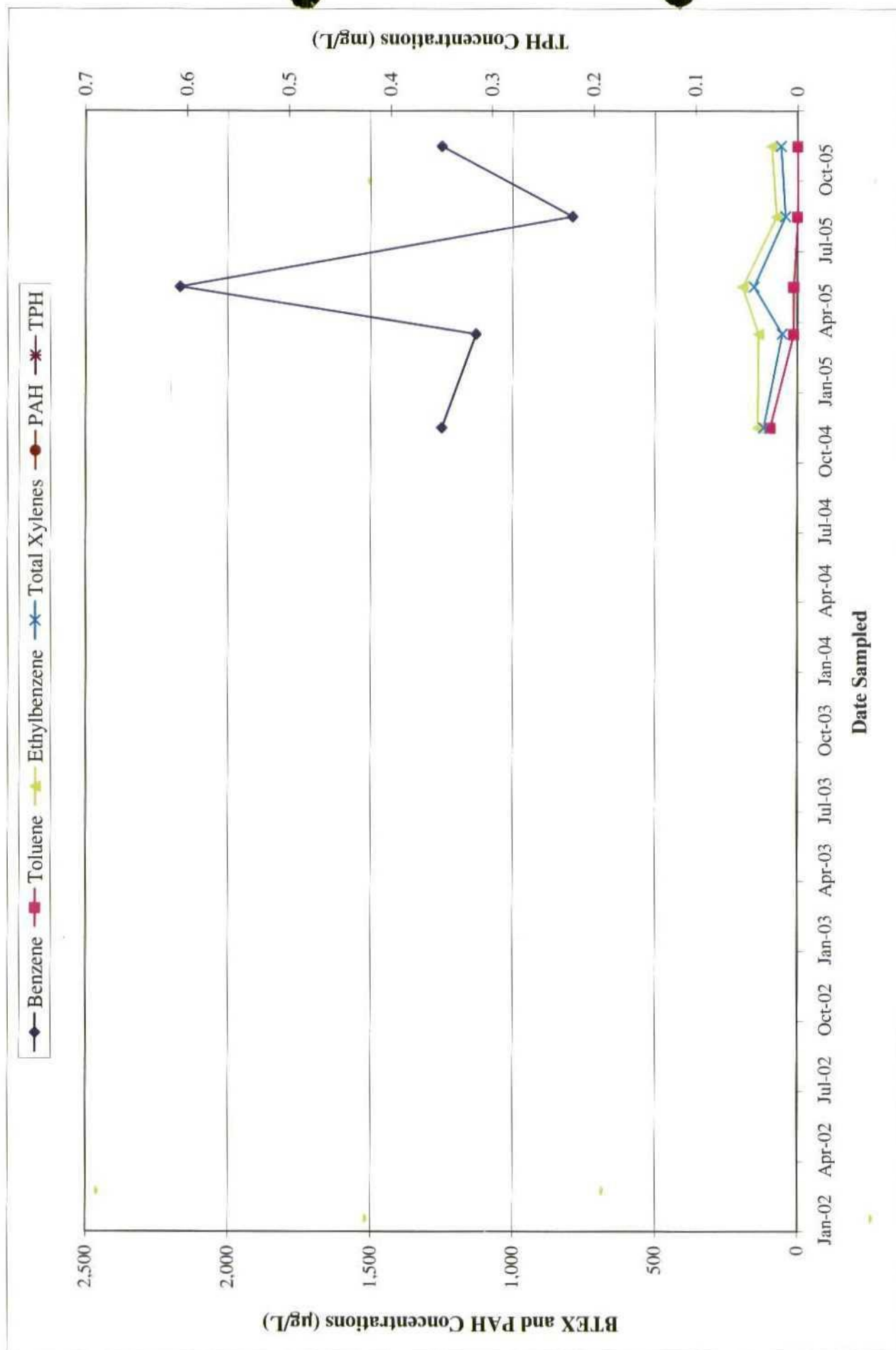


Figure 13: BTEX, PAH and TPH Concentrations in Groundwater Monitoring Well MW-10 from 11/15/04 through 12/31/05, Plains Pipeline, L.P., Livingston Line - Bob McCasland, Lea County, New Mexico.

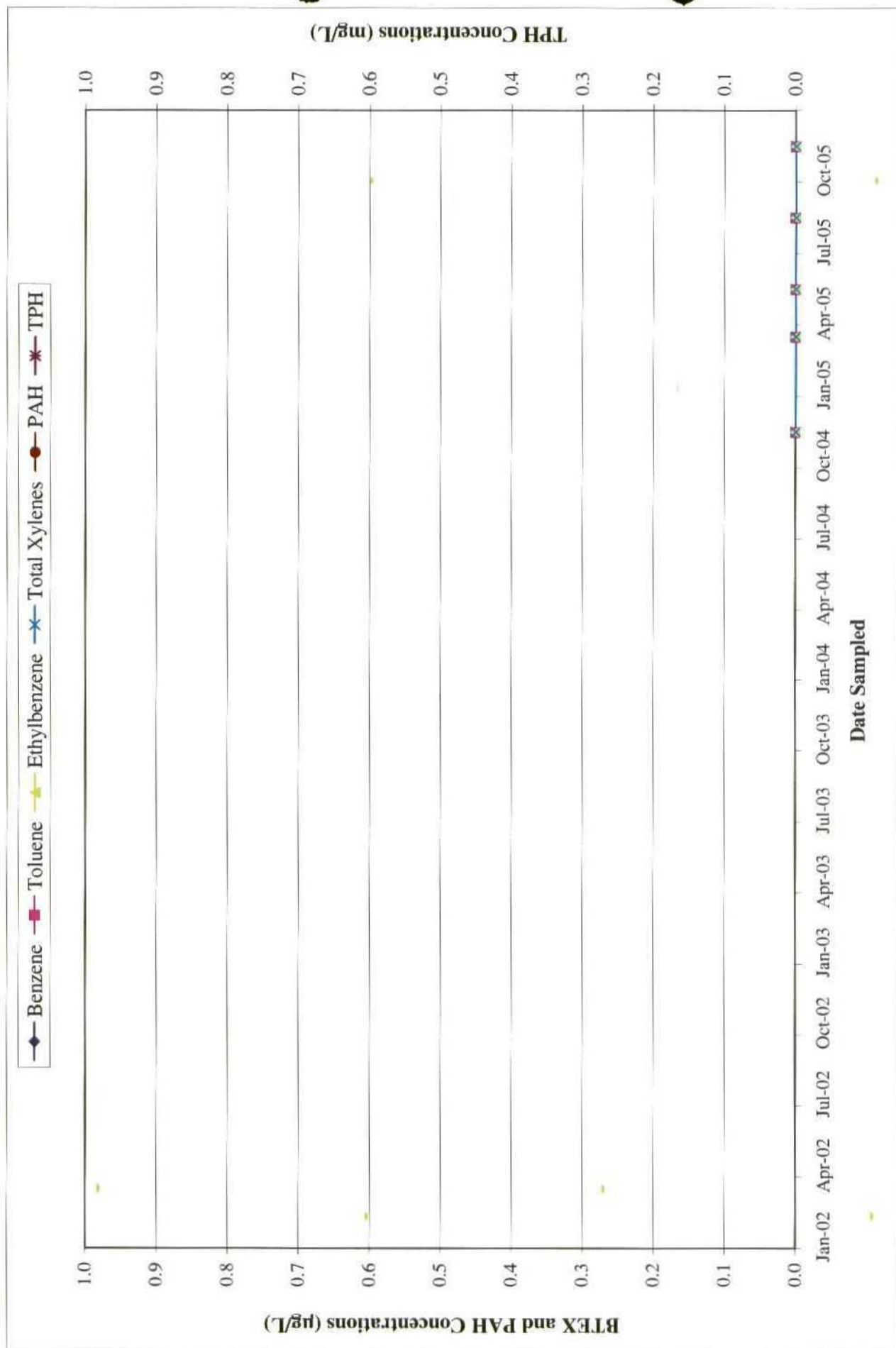


Figure 14: BTEX, PAH and TPH Concentrations in Groundwater Monitoring Well MW-11 from 11/15/04 through 12/31/05, Plains Pipeline, L.P., Livingston Line - Bob McCasland, Lea County, New Mexico.

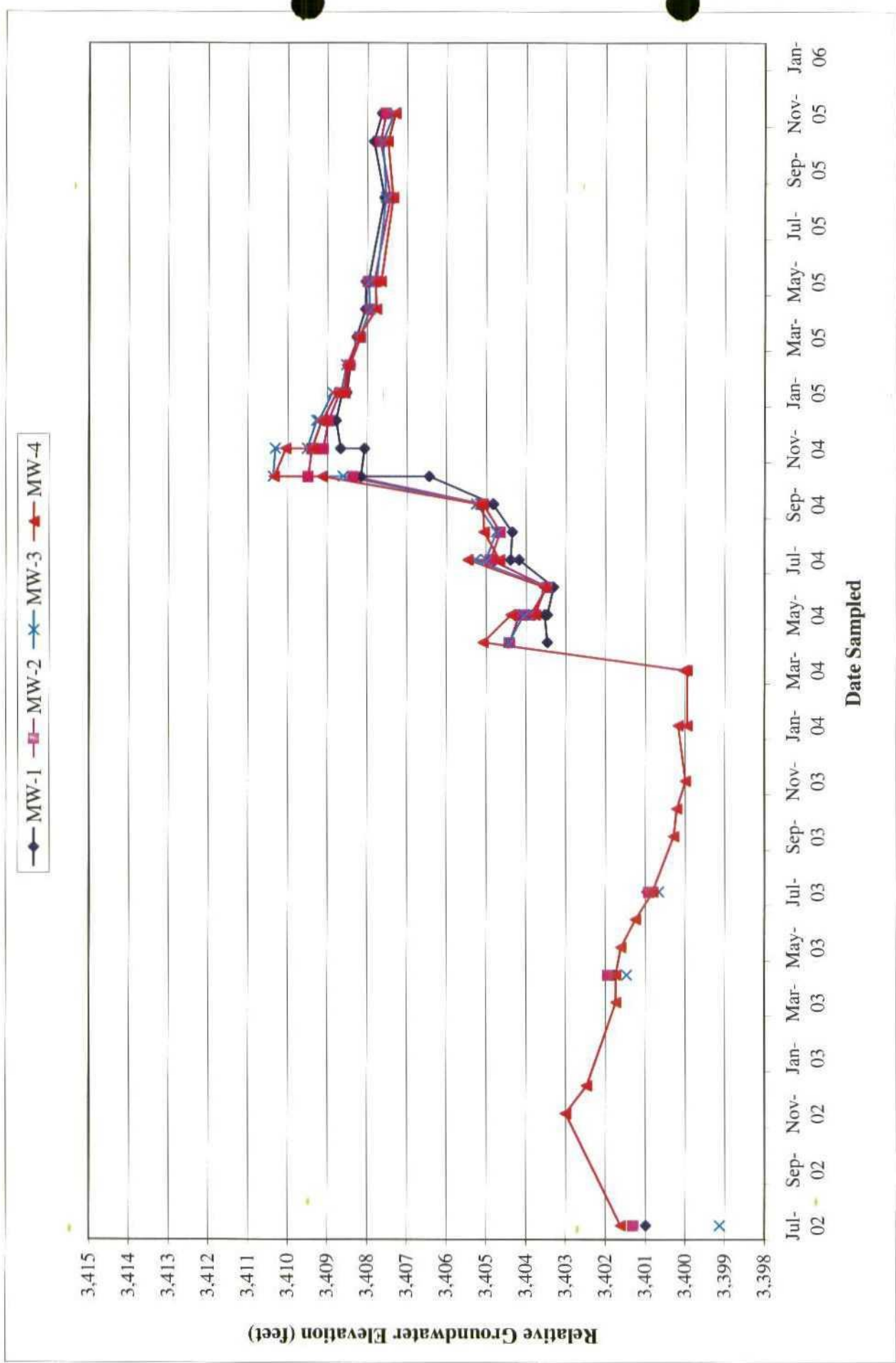


Figure 15: Hydrograph for Groundwater Monitoring Wells MW-1 through MW-4, Plains Pipeline, L.P., Livingston Line - Bob McCasland, Lea County, New Mexico from 07/10/02 through 12/31/05.

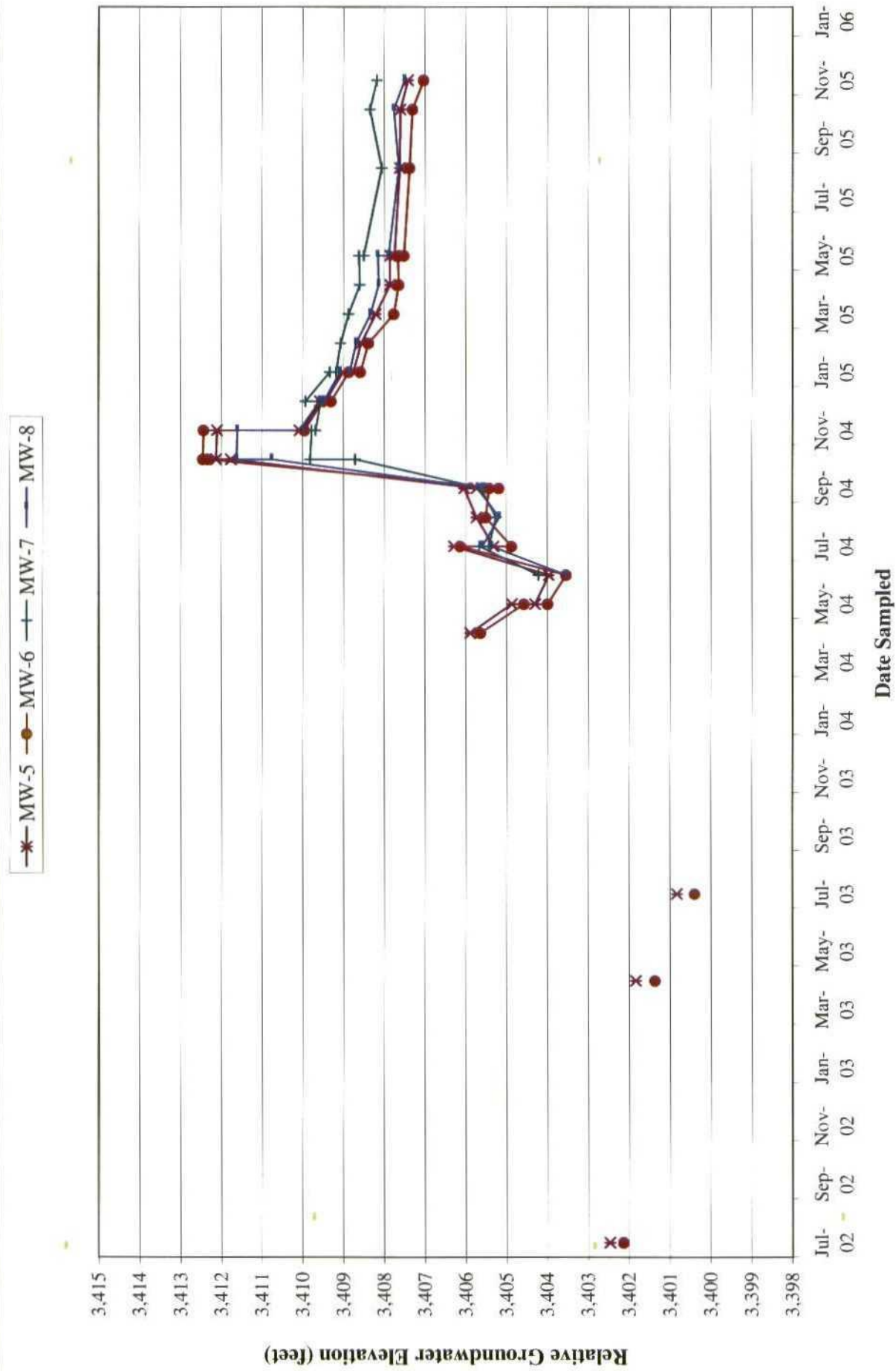


Figure 16: Hydrograph for Groundwater Monitoring Wells MW-5 through MW-8, Plains Pipeline, L.P., Livingston Line -  
 Bob McCasland, Lea County, New Mexico from 07/10/02 through 12/31/05.

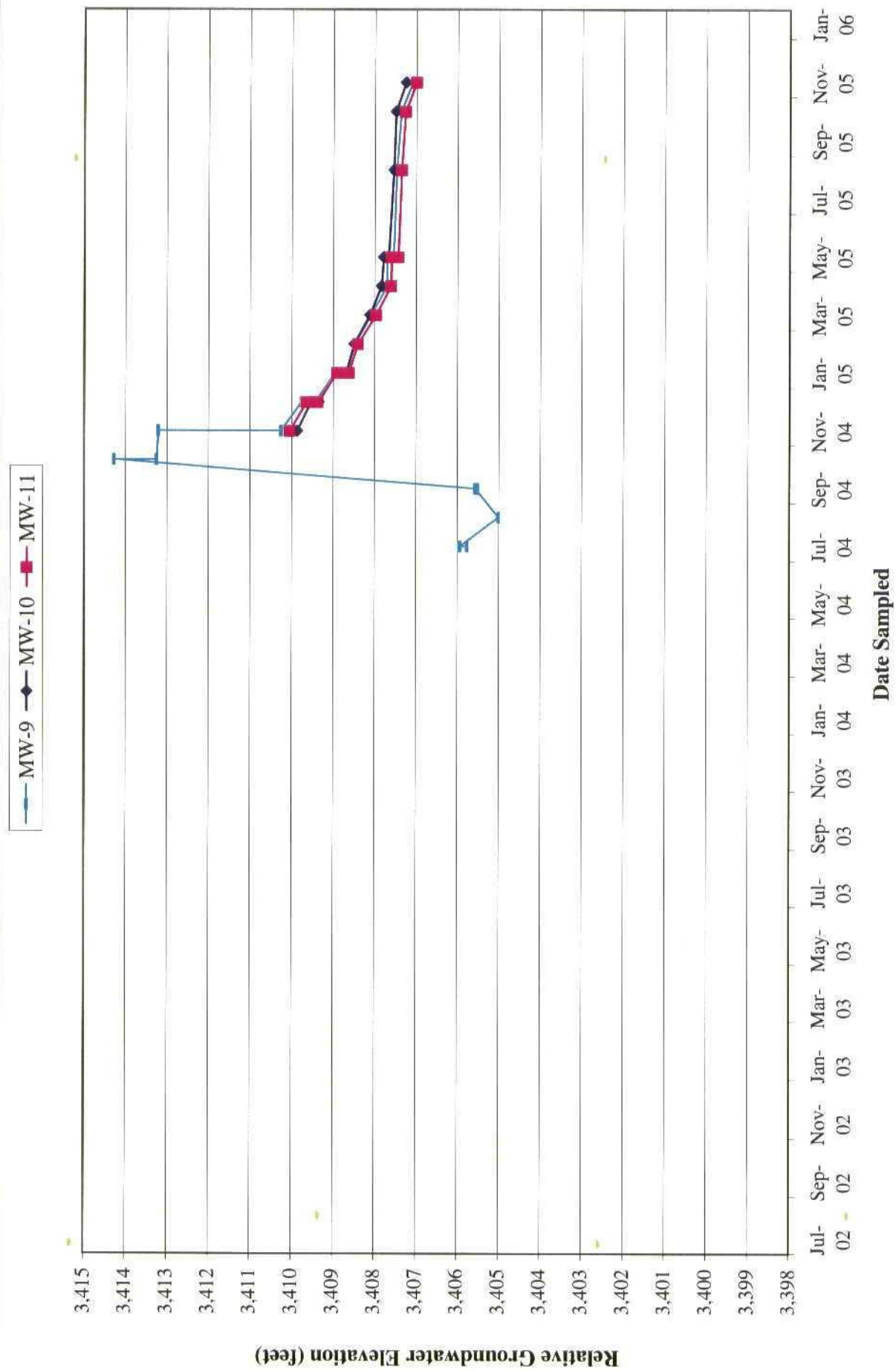
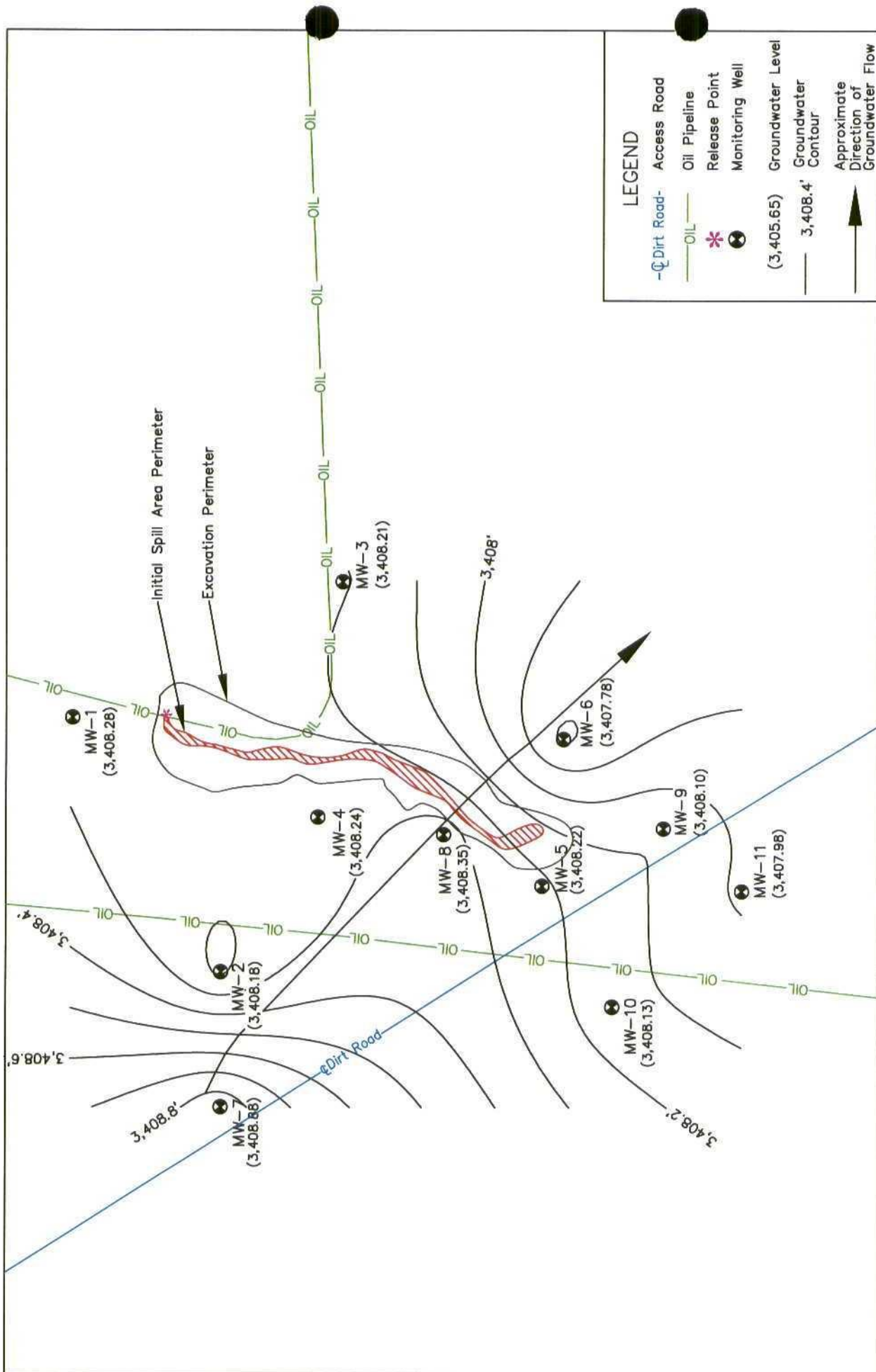


Figure 17: Hydrograph for Groundwater Monitoring Wells MW-9 through MW-11, Plains Pipeline, L.P., Livingston Line - Bob McCasland, Lea County, New Mexico from 07/10/02 through 12/31/05.



|                                                                                                                                |                                                                                                                                                         |                                              |                                |
|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|--------------------------------|
| <p>Figure 18</p> <p>Groundwater Contour Map - 03/21/05</p> <p>Plains Pipeline, L.P.</p> <p>Livingston Line - Bob McCasland</p> | <p>Lea County, New Mexico</p> <p>NE 1/4 of the SW 1/4, Sec. 3, T21S, R37E</p> <p>N 32° 30' 18.8" W 103° 09' 6.48"</p> <p>Elevation: 3,427 feet amsl</p> | <p>DWG By: Iain Olness</p> <p>April 2004</p> | <p>REVISED</p> <p>Jan 2006</p> |
|                                                                                                                                | <p>0 100 200</p> <p>Feet</p>                                                                                                                            | <p>SHEET</p> <p>1 of 1</p>                   | <p>North Arrow</p>             |

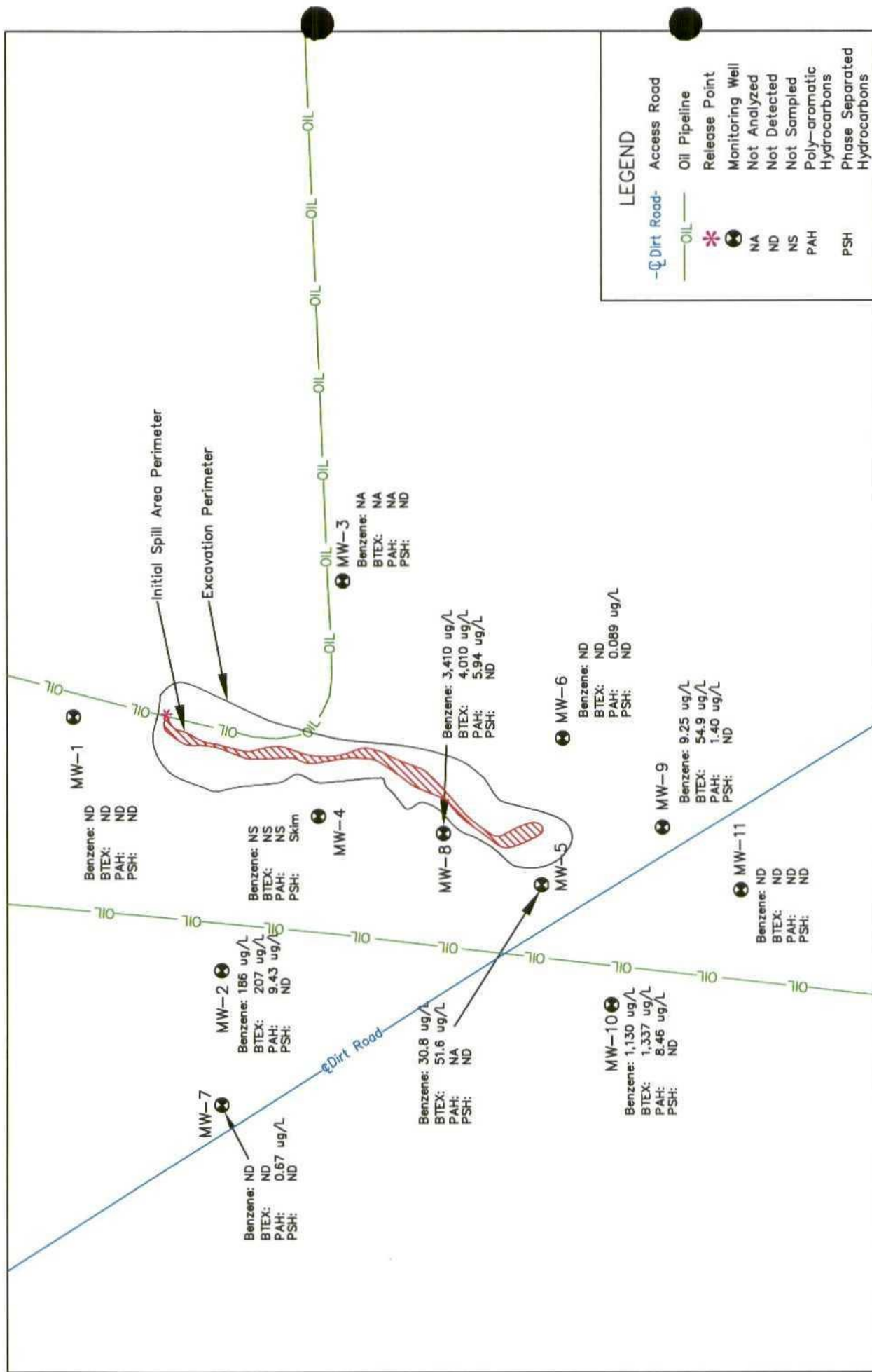


Figure 19

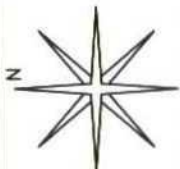
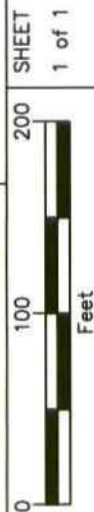
Contaminant Concentration Map - 03/21/05  
 Plains Pipeline, L.P.  
 Livingston Line - Bob McCasland

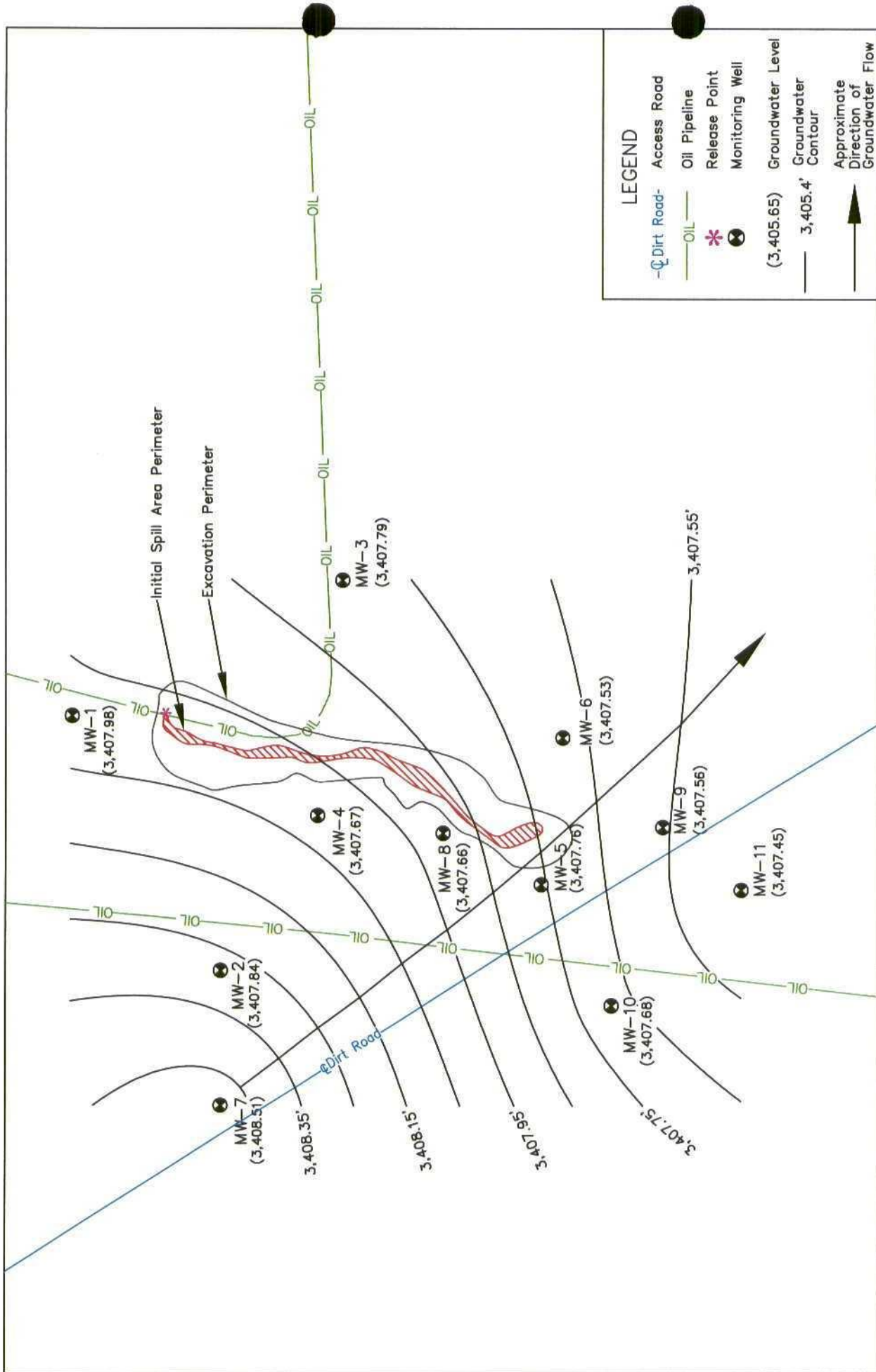
Lea County, New Mexico

NE 1/4 of the SW 1/4, Sec. 3, T21S, R37E  
 N 32° 30' 18.8" W 103° 09' 6.48"  
 Elevation: 3,427 feet amsl

DWG By: Iain Olness  
 April 2004

REVISED  
 Jan 2006

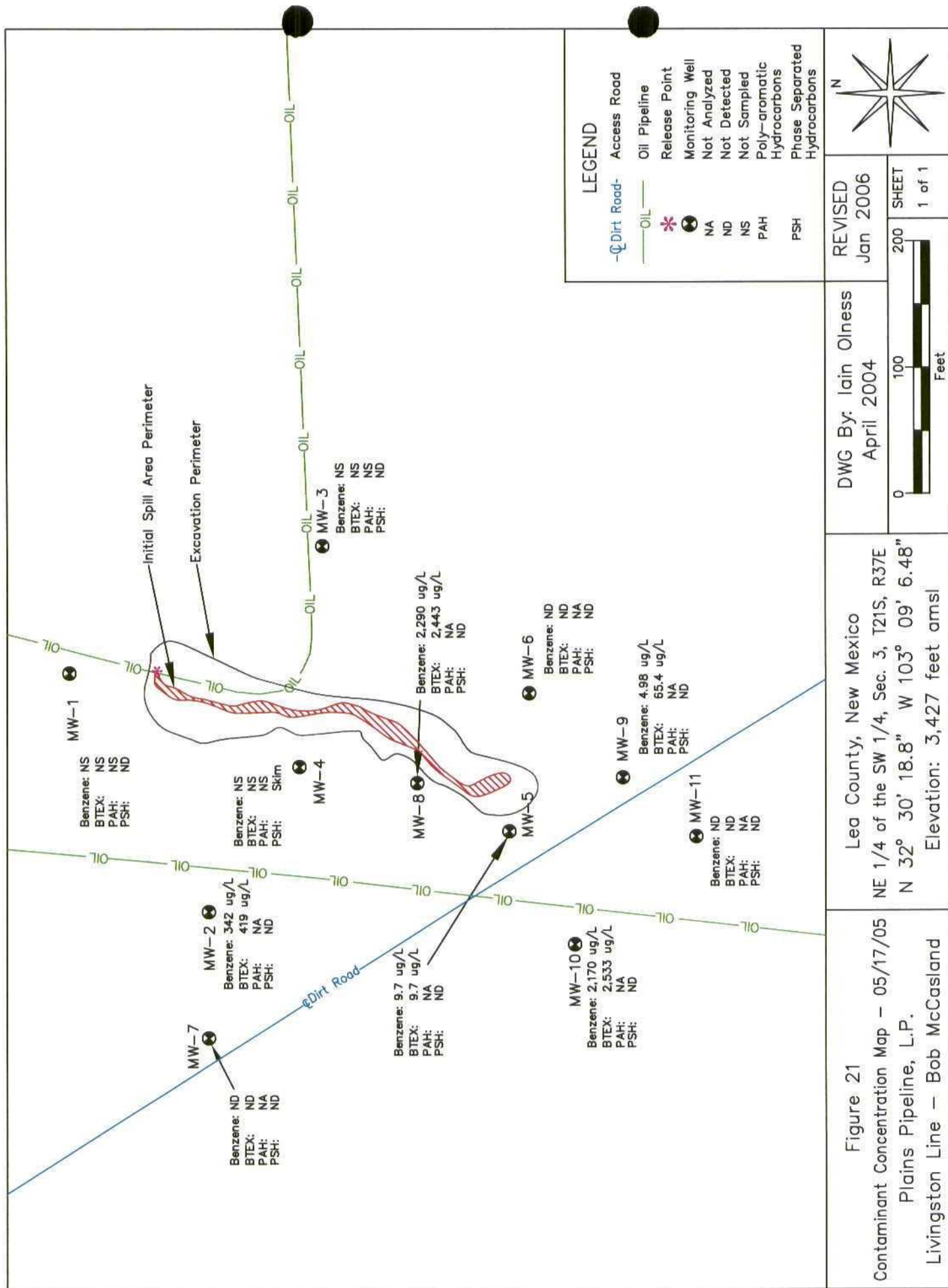


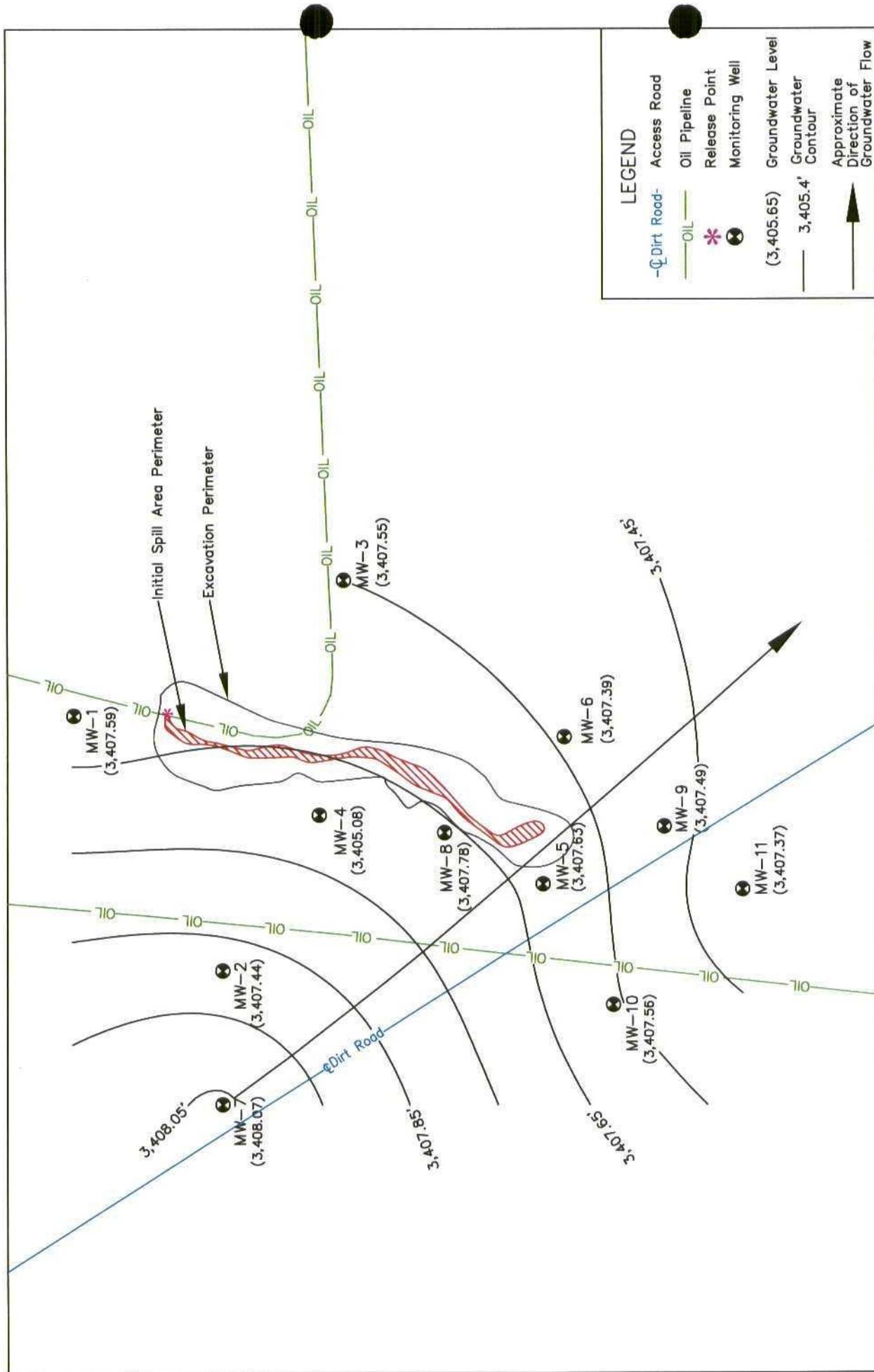


**LEGEND**

- Dirt Road- Access Road
- OIL — Oil Pipeline
- \* Release Point
- Monitoring Well
- (3,405.65) Groundwater Level
- 3,405.4' Groundwater Contour
- Approximate Direction of Groundwater Flow

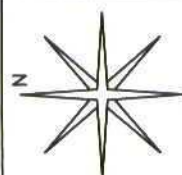
|                                                                                                                                |                                                                                                                                                         |  |                                              |                                |                            |
|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------|--------------------------------|----------------------------|
| <p>Figure 20</p> <p>Groundwater Contour Map - 05/17/05</p> <p>Plains Pipeline, L.P.</p> <p>Livingston Line - Bob McCasland</p> | <p>Lea County, New Mexico</p> <p>NE 1/4 of the SW 1/4, Sec. 3, T21S, R37E</p> <p>N 32° 30' 18.8" W 103° 09' 6.48"</p> <p>Elevation: 3,427 feet amsl</p> |  | <p>DWG By: Iain Olness</p> <p>April 2004</p> | <p>REVISED</p> <p>Jan 2006</p> | <p>SHEET</p> <p>1 of 1</p> |
|                                                                                                                                |                                                                                                                                                         |  |                                              |                                |                            |





# LEGEND

- C- Dirt Road
- OIL
- \* Release Point
- Monitoring Well
- Groundwater Level (3,405.65)
- Groundwater Contour 3,405.4'
- Approximate Direction of Groundwater Flow



REVISED  
Jan 2006

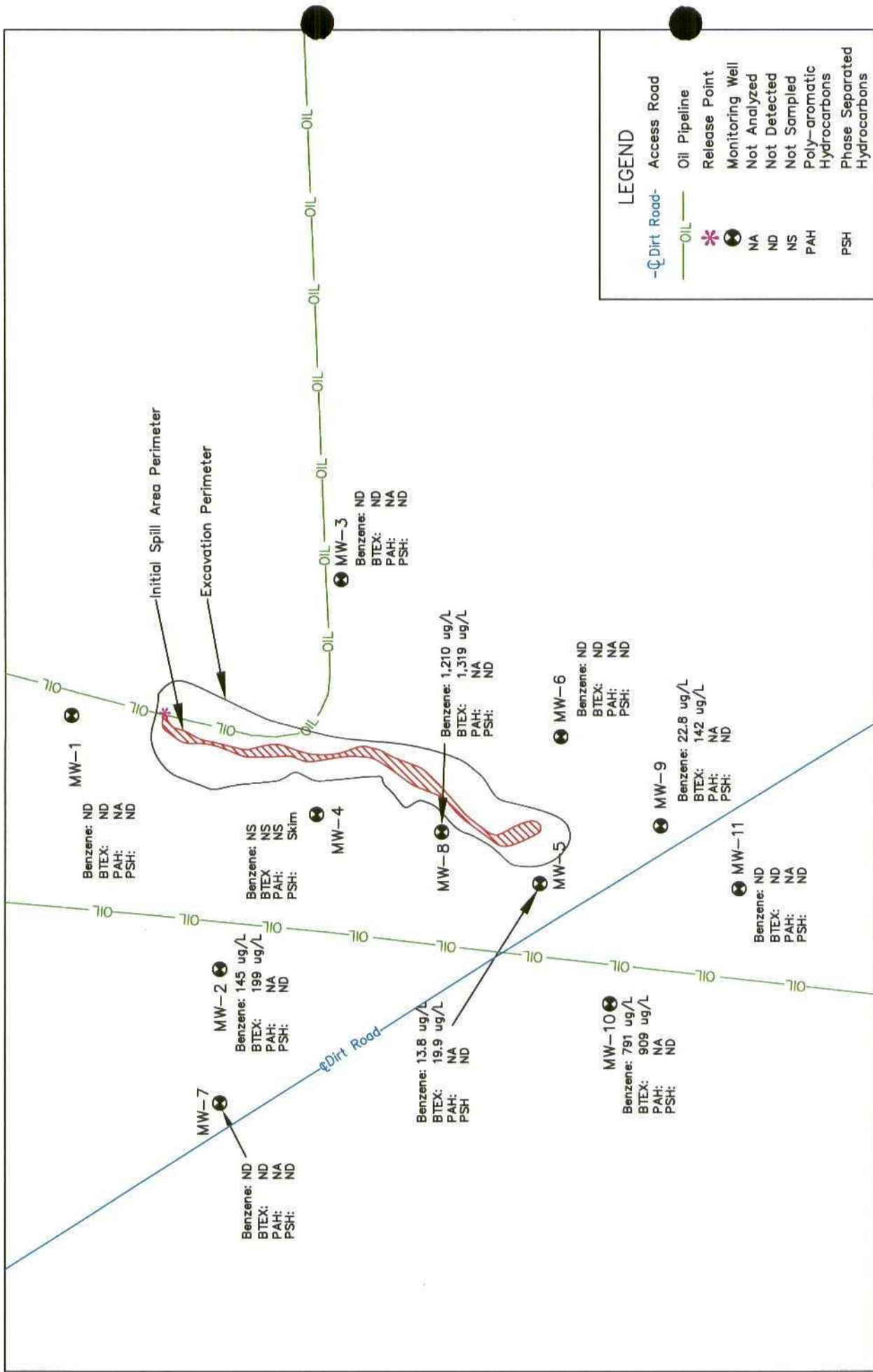
DWG By: Iain Olness  
April 2004

Lea County, New Mexico  
NE 1/4 of the SW 1/4, Sec. 3, T21S, R37E  
N 32° 30' 18.8" W 103° 09' 6.48"  
Elevation: 3,427 feet amsl

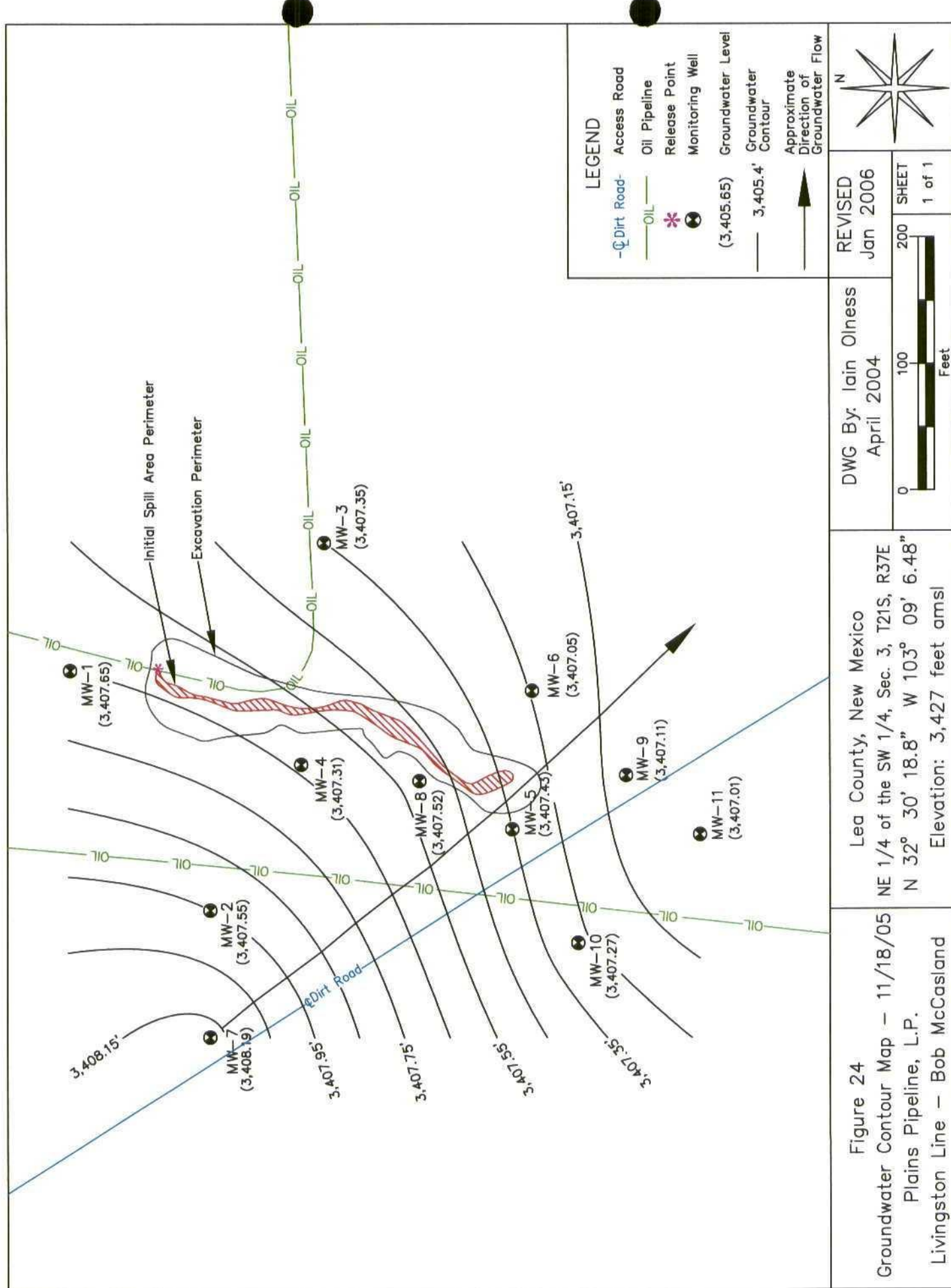
Figure 22  
Groundwater Contour Map - 08/15/05  
Plains Pipeline, L.P.  
Livingston Line - Bob McCasland



SHEET  
1 of 1

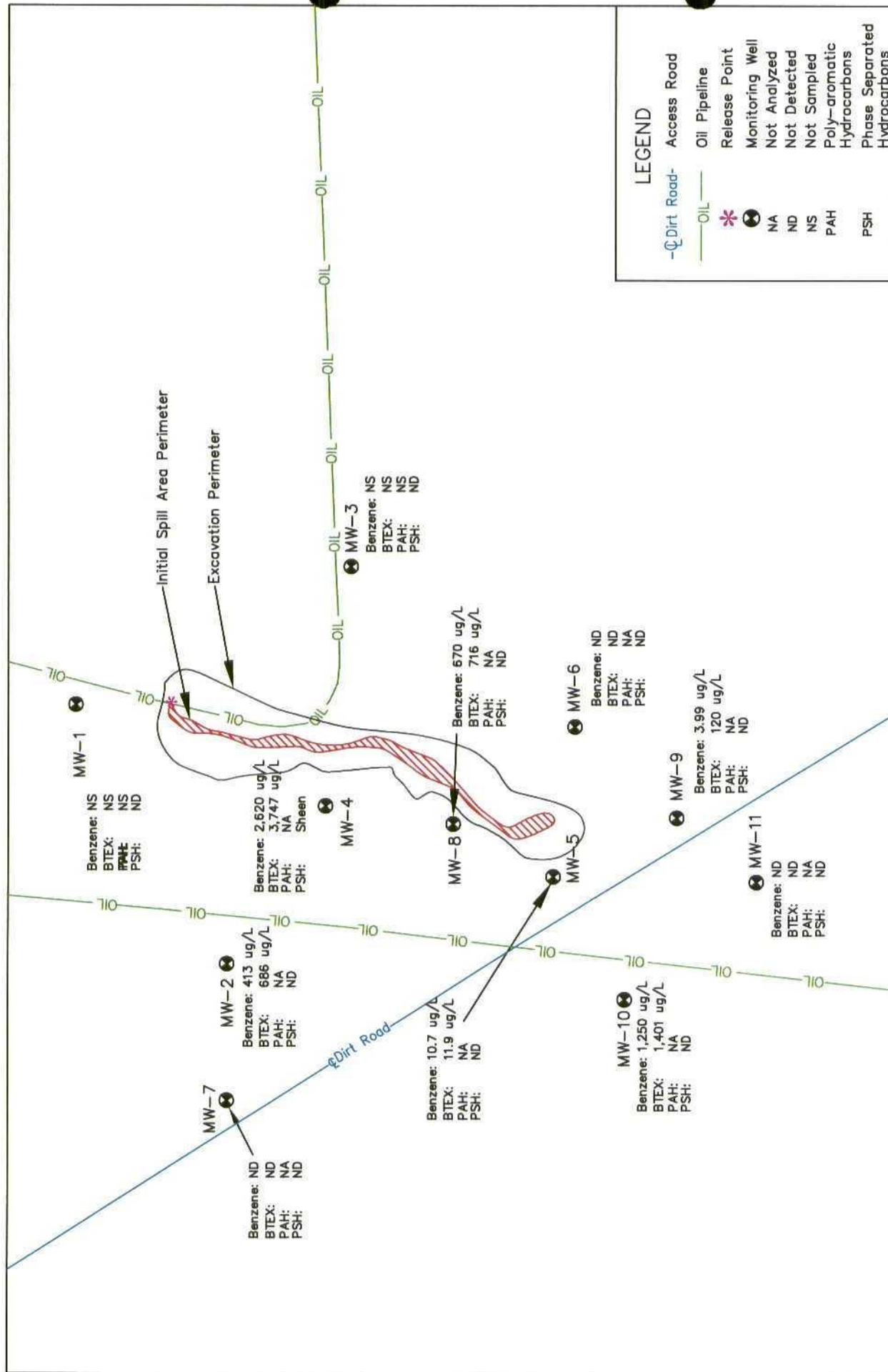


|                                                                                                                   |                                                                                                                                      |                                                                                                          |                     |                                                                                     |
|-------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------|
| Figure 23<br>Contaminant Concentration Map – 08/15/05<br>Plains Pipeline, L.P.<br>Livingston Line – Bob McCasland | Lea County, New Mexico<br>NE 1/4 of the SW 1/4, Sec. 3, T21S, R37E<br>N 32° 30' 18.8" W 103° 09' 6.48"<br>Elevation: 3,427 feet amsl | DWG By: Iain Olness<br>April 2004                                                                        | REVISED<br>Jan 2006 |  |
|                                                                                                                   |                                                                                                                                      | <br>0 100 200<br>Feet | SHEET<br>1 of 1     |                                                                                     |
|                                                                                                                   |                                                                                                                                      |                                                                                                          |                     |                                                                                     |

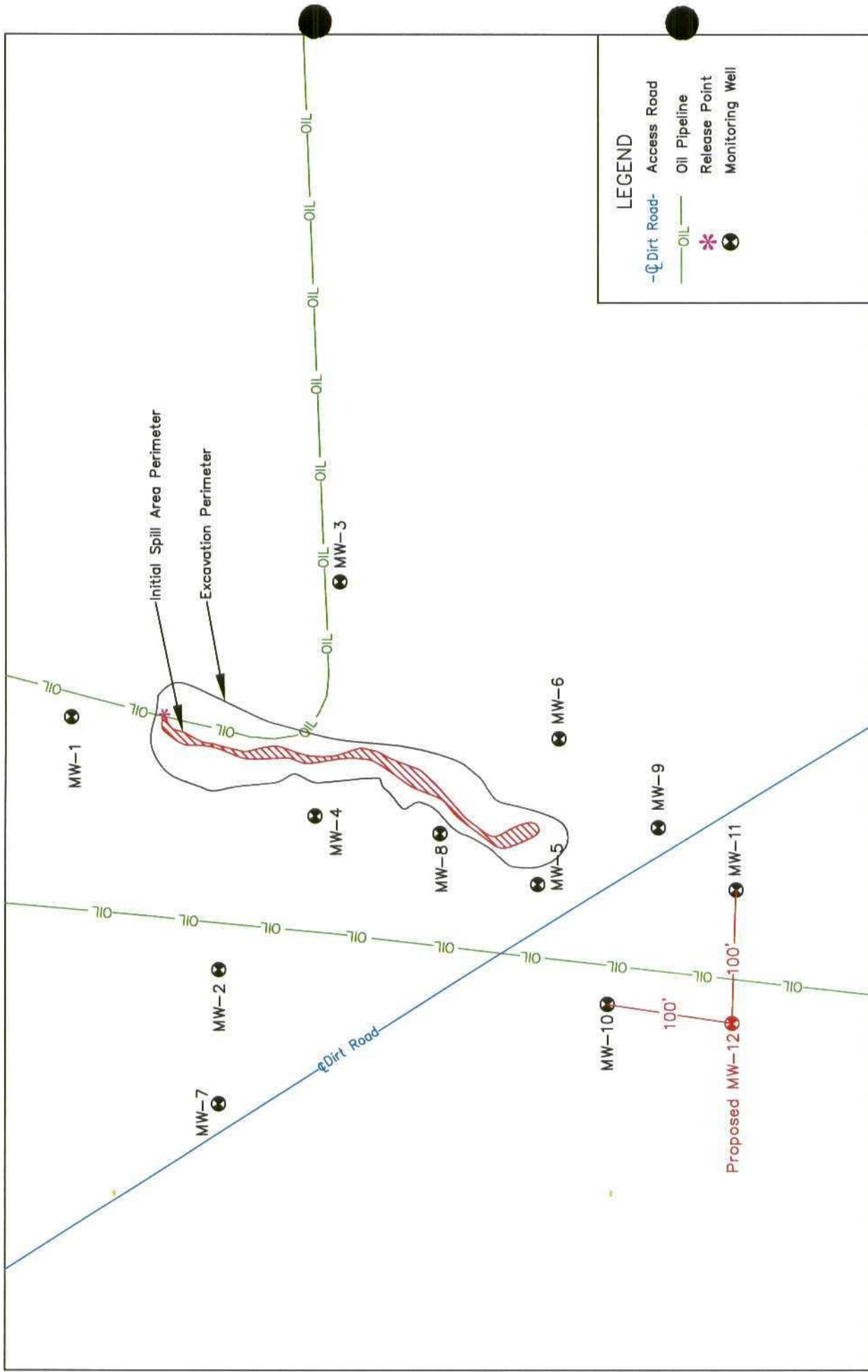


Lea County, New Mexico  
NE 1/4 of the SW 1/4, Sec. 3, T21S, R37E  
N 32° 30' 18.8" W 103° 09' 6.48"  
Elevation: 3,427 feet amsl

DWG By: Iain Olness  
April 2004

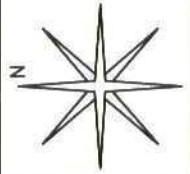


|                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                          |                                                                                                                                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>LEGEND</b></p> <ul style="list-style-type: none"> <li>-○- Dirt Road - Access Road</li> <li>-OIL- Oil Pipeline</li> <li>* Release Point</li> <li>⊗ Monitoring Well</li> <li>NA Not Analyzed</li> <li>ND Not Detected</li> <li>NS Not Sampled</li> <li>PAH Poly-aromatic Hydrocarbons</li> <li>PSH Phase Separated Hydrocarbons</li> </ul> |  | <p>REVISED<br/>Jan 2006</p> <p>DWG By: Iain Olness<br/>April 2004</p> <p>Scale: 0, 100, 200 Feet</p> <p>SHEET 1 of 1</p> | <p>Lea County, New Mexico</p> <p>NE 1/4 of the SW 1/4, Sec. 3, T21S, R37E</p> <p>N 32° 30' 18.8" W 103° 09' 6.48"</p> <p>Elevation: 3,427 feet amsl</p> |
| <p><b>Figure 25</b></p> <p>Contaminant Concentration Map - 11/18/05</p> <p>Plains Pipeline, L.P.</p> <p>Livingston Line - Bob McCasland</p>                                                                                                                                                                                                    |  |                                                                                                                          |                                                                                                                                                         |



# LEGEND

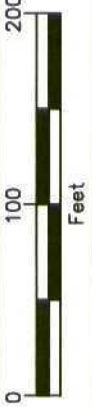
- Dirt Road-
- Oil Pipeline
- \* Release Point
- Monitoring Well



REVISED  
Jan 2006

SHEET  
1 of 1

DWG By: Iain Olness  
April 2004



Lea County, New Mexico  
NE 1/4 of the SW 1/4, Sec. 3, T21S, R37E  
N 32° 30' 18.8" W 103° 09' 6.48"  
Elevation: 3,427 feet amsl

Figure 26  
Proposed Groundwater Monitoring Well Location Map  
Plains Pipeline, L.P.  
Livingston Line - Bob McCasland

# TABLES

TABLE 1

Relative Groundwater Elevations and  
Phase Separated Hydrocarbon Thickness

Livingston Line - Bob McCasland - Ref #2001-11043

| Monitor Well | Date Gauged | Relative Top of Casing<br>Elevation (feet)* | Depth to PSH<br>Below Top of<br>Casing (feet) | Depth to Water<br>Below Top of<br>Casing (feet) | Corrected Relative<br>Groundwater Elevation<br>(feet)* | Phase Separated<br>Hydrocarbon<br>Thickness (feet) |
|--------------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|--------------------------------------------------------|----------------------------------------------------|
| MW-1         | 10-Jul-02   | 3,439.09                                    | --                                            | 38.10                                           | 3,400.99                                               | --                                                 |
|              | 18-Nov-02   |                                             |                                               |                                                 |                                                        |                                                    |
|              | 13-Dec-02   |                                             |                                               |                                                 |                                                        |                                                    |
|              | 24-Mar-03   |                                             |                                               |                                                 |                                                        |                                                    |
|              | 15-Apr-03   |                                             | --                                            | 37.31                                           | 3,401.78                                               | --                                                 |
|              | 2-May-03    |                                             |                                               |                                                 |                                                        |                                                    |
|              | 16-Jun-03   |                                             |                                               |                                                 |                                                        |                                                    |
|              | 14-Jul-03   |                                             | --                                            | 38.13                                           | 3,400.96                                               | --                                                 |
|              | 31-Jul-03   |                                             |                                               |                                                 |                                                        |                                                    |
|              | 22-Sep-03   |                                             |                                               |                                                 |                                                        |                                                    |
|              | 23-Oct-03   |                                             |                                               |                                                 |                                                        |                                                    |
|              | 5-Nov-03    |                                             |                                               |                                                 |                                                        |                                                    |
|              | 2-Jan-04    |                                             |                                               |                                                 |                                                        |                                                    |
|              | 30-Jan-04   |                                             |                                               |                                                 |                                                        |                                                    |
|              | 3-Mar-04    |                                             |                                               |                                                 |                                                        |                                                    |
|              | 15-Mar-04   |                                             |                                               |                                                 |                                                        |                                                    |
|              | 25-Mar-04   |                                             |                                               |                                                 |                                                        |                                                    |
|              | 20-Apr-04   |                                             | --                                            | 35.62                                           | 3,403.47                                               | --                                                 |
|              | 7-May-04    |                                             | --                                            | 35.55                                           | 3,403.54                                               | --                                                 |
|              | 25-May-04   |                                             | --                                            | 35.62                                           | 3,403.47                                               | --                                                 |
|              | 10-Jun-04   |                                             | --                                            | 35.77                                           | 3,403.32                                               | --                                                 |
|              | 14-Jul-04   |                                             | --                                            | 34.90                                           | 3,404.19                                               | --                                                 |
|              | 21-Jul-04   |                                             | --                                            | 34.69                                           | 3,404.40                                               | --                                                 |
|              | 2-Aug-04    |                                             | --                                            | 34.73                                           | 3,404.36                                               | --                                                 |
|              | 10-Sep-04   |                                             | --                                            | 34.24                                           | 3,404.85                                               | --                                                 |
|              | 14-Sep-04   |                                             | --                                            | 34.26                                           | 3,404.83                                               | --                                                 |
|              | 5-Oct-04    |                                             | --                                            | 32.64                                           | 3,406.45                                               | --                                                 |
|              | 19-Oct-04   |                                             | --                                            | 30.92                                           | 3,408.17                                               | --                                                 |
|              | 2-Nov-04    |                                             | --                                            | 31.01                                           | 3,408.08                                               | --                                                 |
|              | 15-Nov-04   |                                             | --                                            | 30.41                                           | 3,408.68                                               | --                                                 |
|              | 6-Dec-04    |                                             | --                                            | 30.30                                           | 3,408.79                                               | --                                                 |
|              | 21-Dec-04   |                                             | --                                            | 30.29                                           | 3,408.80                                               | --                                                 |
|              | 3-Jan-05    |                                             | --                                            | 30.45                                           | 3,408.64                                               | --                                                 |
|              | 18-Jan-05   |                                             | --                                            | 30.57                                           | 3,408.52                                               | --                                                 |
|              | 1-Feb-05    |                                             | --                                            | 30.65                                           | 3,408.44                                               | --                                                 |
|              | 21-Mar-05   |                                             | --                                            | 30.81                                           | 3,408.28                                               | --                                                 |
|              | 21-Apr-05   |                                             | --                                            | 31.03                                           | 3,408.06                                               | --                                                 |
|              | 5-May-05    |                                             | --                                            | 31.04                                           | 3,408.05                                               | --                                                 |
|              | 17-May-05   |                                             | --                                            | 31.11                                           | 3,407.98                                               | --                                                 |
|              | 15-Aug-05   |                                             | --                                            | 31.50                                           | 3,407.59                                               | --                                                 |
|              | 5-Oct-05    |                                             | --                                            | 31.24                                           | 3,407.85                                               | --                                                 |
|              | 18-Nov-05   |                                             | --                                            | 31.44                                           | 3,407.65                                               | --                                                 |
| MW-2         | 10-Jul-02   | 3,432.62                                    | --                                            | 31.31                                           | 3,401.31                                               | --                                                 |
|              | 18-Nov-02   |                                             |                                               |                                                 |                                                        | --                                                 |
|              | 13-Dec-02   |                                             |                                               |                                                 |                                                        | --                                                 |
|              | 24-Mar-03   |                                             |                                               |                                                 |                                                        | --                                                 |
|              | 15-Apr-03   |                                             | --                                            | 30.68                                           | 3,401.94                                               | --                                                 |
|              | 2-May-03    |                                             |                                               |                                                 |                                                        | --                                                 |

TABLE 1

**Relative Groundwater Elevations and  
Phase Separated Hydrocarbon Thickness**

**Livingston Line - Bob McCasland - Ref #2001-11043**

| Monitor Well    | Date Gauged | Relative Top of Casing<br>Elevation (feet)* | Depth to PSH<br>Below Top of<br>Casing (feet) | Depth to Water<br>Below Top of<br>Casing (feet) | Corrected Relative<br>Groundwater Elevation<br>(feet)* | Phase Separated<br>Hydrocarbon<br>Thickness (feet) |
|-----------------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|--------------------------------------------------------|----------------------------------------------------|
| MW-2<br>(cont.) | 16-Jun-03   |                                             | --                                            | 31.70                                           | 3,400.92                                               | --                                                 |
|                 | 14-Jul-03   |                                             | --                                            |                                                 |                                                        |                                                    |
|                 | 31-Jul-03   |                                             | --                                            |                                                 |                                                        |                                                    |
|                 | 22-Sep-03   |                                             | --                                            |                                                 |                                                        |                                                    |
|                 | 23-Oct-03   |                                             | --                                            |                                                 |                                                        |                                                    |
|                 | 5-Nov-03    |                                             | --                                            |                                                 |                                                        |                                                    |
|                 | 2-Jan-04    |                                             | --                                            |                                                 |                                                        |                                                    |
|                 | 30-Jan-04   |                                             | --                                            |                                                 |                                                        |                                                    |
|                 | 3-Mar-04    |                                             | --                                            |                                                 |                                                        |                                                    |
|                 | 15-Mar-04   |                                             | --                                            |                                                 |                                                        |                                                    |
|                 | 25-Mar-04   |                                             | --                                            |                                                 |                                                        |                                                    |
|                 | 20-Apr-04   |                                             | --                                            | 28.20                                           | 3,404.42                                               | --                                                 |
|                 | 7-May-04    |                                             | --                                            | 28.44                                           | 3,404.18                                               | --                                                 |
|                 | 25-May-04   |                                             | --                                            | 28.72                                           | 3,403.90                                               | --                                                 |
|                 | 10-Jun-04   |                                             | --                                            | 29.14                                           | 3,403.48                                               | --                                                 |
|                 | 14-Jul-04   |                                             | --                                            | 27.73                                           | 3,404.89                                               | --                                                 |
|                 | 21-Jul-04   |                                             | --                                            | 27.71                                           | 3,404.91                                               | --                                                 |
|                 | 2-Aug-04    |                                             | --                                            | 27.96                                           | 3,404.66                                               | --                                                 |
|                 | 10-Sep-04   |                                             | --                                            | 27.52                                           | 3,405.10                                               | --                                                 |
|                 | 14-Sep-04   |                                             | --                                            | 27.51                                           | 3,405.11                                               | --                                                 |
|                 | 5-Oct-04    |                                             | --                                            | 24.25                                           | 3,408.37                                               | --                                                 |
|                 | 19-Oct-04   |                                             | --                                            | 23.12                                           | 3,409.50                                               | --                                                 |
|                 | 2-Nov-04    |                                             | --                                            | 23.22                                           | 3,409.40                                               | --                                                 |
|                 | 15-Nov-04   |                                             | --                                            | 23.50                                           | 3,409.12                                               | --                                                 |
|                 | 6-Dec-04    |                                             | --                                            | 23.63                                           | 3,408.99                                               | --                                                 |
|                 | 21-Dec-04   |                                             | --                                            | 23.63                                           | 3,408.99                                               | --                                                 |
|                 | 3-Jan-05    |                                             | --                                            | 23.91                                           | 3,408.71                                               | --                                                 |
|                 | 18-Jan-05   |                                             | --                                            | 24.05                                           | 3,408.57                                               | --                                                 |
|                 | 1-Feb-05    |                                             | --                                            | 24.17                                           | 3,408.45                                               | --                                                 |
|                 | 21-Mar-05   |                                             | --                                            | 24.44                                           | 3,408.18                                               | --                                                 |
|                 | 21-Apr-05   |                                             | --                                            | 24.67                                           | 3,407.95                                               | --                                                 |
|                 | 5-May-05    |                                             | --                                            | 24.63                                           | 3,407.99                                               | --                                                 |
|                 | 17-May-05   |                                             | --                                            | 24.78                                           | 3,407.84                                               | --                                                 |
|                 | 15-Aug-05   |                                             | --                                            | 25.18                                           | 3,407.44                                               | --                                                 |
|                 | 5-Oct-05    |                                             | --                                            | 24.93                                           | 3,407.69                                               | --                                                 |
|                 | 18-Nov-05   |                                             | --                                            | 25.07                                           | 3,407.55                                               | --                                                 |
| MW-3            | 10-Jul-02   | 3,433.61                                    | --                                            | 34.48                                           | 3,399.13                                               | --                                                 |
|                 | 18-Nov-02   |                                             | --                                            |                                                 |                                                        |                                                    |
|                 | 13-Dec-02   |                                             | --                                            |                                                 |                                                        |                                                    |
|                 | 24-Mar-03   |                                             | --                                            |                                                 |                                                        |                                                    |
|                 | 15-Apr-03   |                                             | --                                            | 32.14                                           | 3,401.47                                               | --                                                 |
|                 | 2-May-03    |                                             | --                                            |                                                 |                                                        |                                                    |
|                 | 16-Jun-03   |                                             | --                                            |                                                 |                                                        |                                                    |
|                 | 14-Jul-03   |                                             | --                                            | 32.95                                           | 3,400.66                                               | --                                                 |
|                 | 31-Jul-03   |                                             | --                                            |                                                 |                                                        |                                                    |
|                 | 22-Sep-03   |                                             | --                                            |                                                 |                                                        |                                                    |
|                 | 23-Oct-03   |                                             | --                                            |                                                 |                                                        |                                                    |
|                 | 5-Nov-03    |                                             | --                                            |                                                 |                                                        |                                                    |
|                 | 2-Jan-04    |                                             | --                                            |                                                 |                                                        |                                                    |
|                 | 30-Jan-04   |                                             | --                                            |                                                 |                                                        |                                                    |
|                 | 3-Mar-04    |                                             | --                                            |                                                 |                                                        |                                                    |
|                 | 15-Mar-04   |                                             | --                                            |                                                 |                                                        |                                                    |
|                 | 25-Mar-04   |                                             | --                                            |                                                 |                                                        |                                                    |
|                 | 20-Apr-04   |                                             | --                                            | 29.17                                           | 3,404.44                                               | --                                                 |
|                 | 7-May-04    |                                             | --                                            | 29.55                                           | 3,404.06                                               | --                                                 |

TABLE 1

**Relative Groundwater Elevations and  
Phase Separated Hydrocarbon Thickness**

**Livingston Line - Bob McCasland - Ref #2001-11043**

| Monitor Well    | Date Gauged | Relative Top of Casing<br>Elevation (feet)* | Depth to PSH<br>Below Top of<br>Casing (feet) | Depth to Water<br>Below Top of<br>Casing (feet) | Corrected Relative<br>Groundwater Elevation<br>(feet)* | Phase Separated<br>Hydrocarbon<br>Thickness (feet) |
|-----------------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|--------------------------------------------------------|----------------------------------------------------|
| MW-3<br>(cont.) | 25-May-04   |                                             | --                                            | 29.80                                           | 3,403.81                                               | --                                                 |
|                 | 10-Jun-04   |                                             | --                                            | 30.12                                           | 3,403.49                                               | --                                                 |
|                 | 14-Jul-04   |                                             | --                                            | 28.33                                           | 3,405.28                                               | --                                                 |
|                 | 21-Jul-04   |                                             | --                                            | 28.59                                           | 3,405.02                                               | --                                                 |
|                 | 2-Aug-04    |                                             | --                                            | 28.85                                           | 3,404.76                                               | --                                                 |
|                 | 10-Sep-04   |                                             | --                                            | 28.35                                           | 3,405.26                                               | --                                                 |
|                 | 14-Sep-04   |                                             | --                                            | 28.45                                           | 3,405.16                                               | --                                                 |
|                 | 5-Oct-04    |                                             | --                                            | 25.00                                           | 3,408.61                                               | --                                                 |
|                 | 19-Oct-04   |                                             | --                                            | 23.24                                           | 3,410.37                                               | --                                                 |
|                 | 2-Nov-04    |                                             | --                                            | 23.29                                           | 3,410.32                                               | --                                                 |
|                 | 15-Nov-04   |                                             | --                                            | 24.10                                           | 3,409.51                                               | --                                                 |
|                 | 6-Dec-04    |                                             | --                                            | 24.33                                           | 3,409.28                                               | --                                                 |
|                 | 21-Dec-04   |                                             | --                                            | 24.39                                           | 3,409.22                                               | --                                                 |
|                 | 3-Jan-05    |                                             | --                                            | 24.73                                           | 3,408.88                                               | --                                                 |
|                 | 18-Jan-05   |                                             | --                                            | 24.94                                           | 3,408.67                                               | --                                                 |
|                 | 1-Feb-05    |                                             | --                                            | 25.08                                           | 3,408.53                                               | --                                                 |
|                 | 21-Mar-05   |                                             | --                                            | 25.40                                           | 3,408.21                                               | --                                                 |
|                 | 21-Apr-05   |                                             | --                                            | 25.66                                           | 3,407.95                                               | --                                                 |
|                 | 5-May-05    |                                             | --                                            | 25.63                                           | 3,407.98                                               | --                                                 |
|                 | 17-May-05   |                                             | --                                            | 25.82                                           | 3,407.79                                               | --                                                 |
|                 | 15-Aug-05   |                                             | --                                            | 26.06                                           | 3,407.55                                               | --                                                 |
|                 | 5-Oct-05    |                                             | --                                            | 25.98                                           | 3,407.63                                               | --                                                 |
|                 | 18-Nov-05   |                                             | --                                            | 26.26                                           | 3,407.35                                               | --                                                 |
| MW-4            | 10-Jul-02   | 3,432.35                                    | 30.70                                         | 30.95                                           | 3,401.63                                               | 0.25                                               |
|                 | 18-Nov-02   |                                             | 29.28                                         | 29.95                                           | 3,403.00                                               | 0.67                                               |
|                 | 13-Dec-02   |                                             | 29.75                                         | 30.99                                           | 3,402.48                                               | 1.24                                               |
|                 | 24-Mar-03   |                                             | 30.56                                         | 31.03                                           | 3,401.74                                               | 0.47                                               |
|                 | 15-Apr-03   |                                             | 30.55                                         | 31.05                                           | 3,401.75                                               | 0.50                                               |
|                 | 2-May-03    |                                             | 30.71                                         | 30.94                                           | 3,401.62                                               | 0.23                                               |
|                 | 16-Jun-03   |                                             | 31.09                                         | 31.18                                           | 3,401.25                                               | 0.09                                               |
|                 | 14-Jul-03   |                                             | 31.50                                         | 31.81                                           | 3,400.82                                               | 0.31                                               |
|                 | 31-Jul-03   |                                             | 31.49                                         | 31.80                                           | 3,400.83                                               | 0.31                                               |
|                 | 22-Sep-03   |                                             | 32.05                                         | 32.07                                           | 3,400.30                                               | 0.02                                               |
|                 | 23-Oct-03   |                                             | 32.03                                         | 33.07                                           | 3,400.22                                               | 1.04                                               |
|                 | 5-Nov-03    |                                             | 32.10                                         | 34.65                                           | 3,400.00                                               | 2.55                                               |
|                 | 2-Jan-04    |                                             | 31.82                                         | 35.30                                           | 3,400.18                                               | 3.48                                               |
|                 | 30-Jan-04   |                                             | 32.20                                         | 34.20                                           | 3,399.95                                               | 2.00                                               |
|                 | 3-Mar-04    |                                             | 32.19                                         | 34.21                                           | 3,399.96                                               | 2.02                                               |
|                 | 15-Mar-04   |                                             | 32.15                                         | 33.87                                           | 3,400.03                                               | 1.72                                               |
|                 | 25-Mar-04   |                                             | 32.14                                         | 33.87                                           | 3,400.04                                               | 1.73                                               |
|                 | 20-Apr-04   |                                             | 27.20                                         | 27.86                                           | 3,405.08                                               | 0.66                                               |
|                 | 7-May-04    |                                             | 27.89                                         | 28.63                                           | 3,404.39                                               | 0.74                                               |
|                 | 25-May-04   |                                             | 28.55                                         | 28.78                                           | 3,403.78                                               | 0.23                                               |
|                 | 10-Jun-04   |                                             | 28.80                                         | 28.84                                           | 3,403.55                                               | 0.04                                               |
|                 | 14-Jul-04   |                                             | Skim                                          | 26.88                                           | 3,405.47                                               | Skim                                               |
|                 | 21-Jul-04   |                                             | Skim                                          | 27.67                                           | 3,404.68                                               | Skim                                               |
|                 | 2-Aug-04    |                                             | Skim                                          | 27.28                                           | 3,405.07                                               | Skim                                               |
|                 | 10-Sep-04   |                                             | Skim                                          | 27.25                                           | 3,405.10                                               | Skim                                               |
|                 | 14-Sep-04   |                                             | Skim                                          | 27.15                                           | 3,405.20                                               | Skim                                               |
|                 | 5-Oct-04    |                                             | Skim                                          | 23.20                                           | 3,409.15                                               | Skim                                               |
|                 | 19-Oct-04   |                                             | Skim                                          | 22.00                                           | 3,410.35                                               | Skim                                               |
|                 | 2-Nov-04    |                                             | Skim                                          | 22.29                                           | 3,410.06                                               | Skim                                               |
|                 | 15-Nov-04   |                                             | Skim                                          | 22.95                                           | 3,409.40                                               | Skim                                               |
|                 | 6-Dec-04    |                                             | Skim                                          | 23.19                                           | 3,409.16                                               | Skim                                               |
|                 | 21-Dec-04   |                                             | Skim                                          | 23.21                                           | 3,409.14                                               | Skim                                               |
|                 | 3-Jan-05    |                                             | NA                                            | 23.56                                           | 3,408.79                                               | NA                                                 |

TABLE 1

**Relative Groundwater Elevations and  
Phase Separated Hydrocarbon Thickness**

**Livingston Line - Bob McCasland - Ref #2001-11043**

| Monitor Well    | Date Gauged | Relative Top of Casing<br>Elevation (feet)* | Depth to PSH<br>Below Top of<br>Casing (feet) | Depth to Water<br>Below Top of<br>Casing (feet) | Corrected Relative<br>Groundwater Elevation<br>(feet)* | Phase Separated<br>Hydrocarbon<br>Thickness (feet) |
|-----------------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|--------------------------------------------------------|----------------------------------------------------|
| MW-4<br>(cont.) | 18-Jan-05   |                                             | NA                                            | 23.75                                           | 3,408.60                                               | NA                                                 |
|                 | 1-Feb-05    |                                             | NA                                            | 23.83                                           | 3,408.52                                               | NA                                                 |
|                 | 21-Mar-05   |                                             | Skim                                          | 24.11                                           | 3,408.24                                               | Skim                                               |
|                 | 21-Apr-05   |                                             | Skim                                          | 24.56                                           | 3,407.79                                               | Skim                                               |
|                 | 5-May-05    |                                             | NA                                            | 24.54                                           | 3,407.81                                               | NA                                                 |
|                 | 17-May-05   |                                             | Skim                                          | 24.68                                           | 3,407.67                                               | Skim                                               |
|                 | 15-Aug-05   |                                             | Sheen                                         | 24.98                                           | 3,407.37                                               | Skim                                               |
|                 | 5-Oct-05    |                                             | Sheen                                         | 24.85                                           | 3,407.50                                               | Skim                                               |
|                 | 18-Nov-05   |                                             | Sheen                                         | 25.04                                           | 3,407.31                                               | Sheen                                              |
| MW-5            | 10-Jul-02   | 3,429.63                                    | --                                            | 27.16                                           | 3,402.47                                               | --                                                 |
|                 | 18-Nov-02   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 13-Dec-02   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 24-Mar-03   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 15-Apr-03   |                                             | --                                            | 27.79                                           | 3,401.84                                               | --                                                 |
|                 | 2-May-03    |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 16-Jun-03   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 14-Jul-03   |                                             | --                                            | 28.79                                           | 3,400.84                                               | --                                                 |
|                 | 31-Jul-03   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 22-Sep-03   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 23-Oct-03   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 5-Nov-03    |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 2-Jan-04    |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 30-Jan-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 3-Mar-04    |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 15-Mar-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 25-Mar-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 20-Apr-04   |                                             | --                                            | 23.73                                           | 3,405.90                                               | --                                                 |
|                 | 7-May-04    |                                             | --                                            | 24.75                                           | 3,404.88                                               | --                                                 |
|                 | 25-May-04   |                                             | --                                            | 25.32                                           | 3,404.31                                               | --                                                 |
|                 | 10-Jun-04   |                                             | --                                            | 25.66                                           | 3,403.97                                               | --                                                 |
|                 | 14-Jul-04   |                                             | --                                            | 23.33                                           | 3,406.30                                               | --                                                 |
|                 | 21-Jul-04   |                                             | --                                            | 24.30                                           | 3,405.33                                               | --                                                 |
|                 | 2-Aug-04    |                                             | --                                            | 23.88                                           | 3,405.75                                               | --                                                 |
|                 | 10-Sep-04   |                                             | --                                            | 23.58                                           | 3,406.05                                               | --                                                 |
|                 | 14-Sep-04   |                                             | --                                            | 23.88                                           | 3,405.75                                               | --                                                 |
|                 | 5-Oct-04    |                                             | --                                            | 17.86                                           | 3,411.77                                               | --                                                 |
|                 | 19-Oct-04   |                                             | --                                            | 17.50                                           | 3,412.13                                               | --                                                 |
|                 | 2-Nov-04    |                                             | --                                            | 17.52                                           | 3,412.11                                               | --                                                 |
|                 | 15-Nov-04   |                                             | --                                            | 19.54                                           | 3,410.09                                               | --                                                 |
|                 | 6-Dec-04    |                                             | --                                            | 20.04                                           | 3,409.59                                               | --                                                 |
|                 | 21-Dec-04   |                                             | --                                            | 20.17                                           | 3,409.46                                               | --                                                 |
|                 | 3-Jan-05    |                                             | --                                            | 20.60                                           | 3,409.03                                               | --                                                 |
|                 | 18-Jan-05   |                                             | --                                            | 20.86                                           | 3,408.77                                               | --                                                 |
|                 | 1-Feb-05    |                                             | --                                            | 21.05                                           | 3,408.58                                               | --                                                 |
|                 | 21-Mar-05   |                                             | --                                            | 21.41                                           | 3,408.22                                               | --                                                 |
|                 | 21-Apr-05   |                                             | --                                            | 21.76                                           | 3,407.87                                               | --                                                 |
|                 | 5-May-05    |                                             | --                                            | 21.76                                           | 3,407.87                                               | --                                                 |
|                 | 17-May-05   |                                             | --                                            | 21.87                                           | 3,407.76                                               | --                                                 |
|                 | 15-Aug-05   |                                             | --                                            | 22.00                                           | 3,407.63                                               | --                                                 |
|                 | 5-Oct-05    |                                             | --                                            | 22.01                                           | 3,407.62                                               | --                                                 |

TABLE 1

**Relative Groundwater Elevations and  
Phase Separated Hydrocarbon Thickness**

**Livingston Line - Bob McCasland - Ref #2001-11043**

| Monitor Well | Date Gauged | Relative Top of Casing<br>Elevation (feet)* | Depth to PSH<br>Below Top of<br>Casing (feet) | Depth to Water<br>Below Top of<br>Casing (feet) | Corrected Relative<br>Groundwater Elevation<br>(feet)* | Phase Separated<br>Hydrocarbon<br>Thickness (feet) |
|--------------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|--------------------------------------------------------|----------------------------------------------------|
| MW-5(cont.)  | 18-Nov-05   |                                             | --                                            | 22.20                                           | 3,407.43                                               | --                                                 |
| MW-6         | 10-Jul-02   | 3,429.30                                    | --                                            | 27.16                                           | 3,402.14                                               | --                                                 |
|              | 18-Nov-02   |                                             | --                                            |                                                 |                                                        | --                                                 |
|              | 13-Dec-02   |                                             | --                                            |                                                 |                                                        | --                                                 |
|              | 24-Mar-03   |                                             | --                                            |                                                 |                                                        | --                                                 |
|              | 15-Apr-03   |                                             | --                                            | 27.93                                           | 3,401.37                                               | --                                                 |
|              | 2-May-03    |                                             | --                                            |                                                 |                                                        | --                                                 |
|              | 16-Jun-03   |                                             | --                                            |                                                 |                                                        | --                                                 |
|              | 14-Jul-03   |                                             | --                                            | 28.90                                           | 3,400.40                                               | --                                                 |
|              | 31-Jul-03   |                                             | --                                            |                                                 |                                                        | --                                                 |
|              | 22-Sep-03   |                                             | --                                            |                                                 |                                                        | --                                                 |
|              | 23-Oct-03   |                                             | --                                            |                                                 |                                                        | --                                                 |
|              | 5-Nov-03    |                                             | --                                            |                                                 |                                                        | --                                                 |
|              | 2-Jan-04    |                                             | --                                            |                                                 |                                                        | --                                                 |
|              | 30-Jan-04   |                                             | --                                            |                                                 |                                                        | --                                                 |
|              | 3-Mar-04    |                                             | --                                            |                                                 |                                                        | --                                                 |
|              | 15-Mar-04   |                                             | --                                            |                                                 |                                                        | --                                                 |
|              | 25-Mar-04   |                                             | --                                            |                                                 |                                                        | --                                                 |
|              | 20-Apr-04   |                                             | --                                            | 23.65                                           | 3,405.65                                               | --                                                 |
|              | 7-May-04    |                                             | --                                            | 24.72                                           | 3,404.58                                               | --                                                 |
|              | 25-May-04   |                                             | --                                            | 25.30                                           | 3,404.00                                               | --                                                 |
|              | 10-Jun-04   |                                             | --                                            | 25.75                                           | 3,403.55                                               | --                                                 |
|              | 14-Jul-04   |                                             | --                                            | 23.15                                           | 3,406.15                                               | --                                                 |
|              | 21-Jul-04   |                                             | --                                            | 24.41                                           | 3,404.89                                               | --                                                 |
|              | 2-Aug-04    |                                             | --                                            | 23.78                                           | 3,405.52                                               | --                                                 |
|              | 10-Sep-04   |                                             | --                                            | 23.86                                           | 3,405.44                                               | --                                                 |
|              | 14-Sep-04   |                                             | --                                            | 24.10                                           | 3,405.20                                               | --                                                 |
|              | 5-Oct-04    |                                             | --                                            | 16.96                                           | 3,412.34                                               | --                                                 |
|              | 19-Oct-04   |                                             | --                                            | 16.84                                           | 3,412.46                                               | --                                                 |
|              | 2-Nov-04    |                                             | --                                            | 16.86                                           | 3,412.44                                               | --                                                 |
|              | 15-Nov-04   |                                             | --                                            | 19.33                                           | 3,409.97                                               | --                                                 |
|              | 6-Dec-04    |                                             | --                                            | 19.77                                           | 3,409.53                                               | --                                                 |
|              | 21-Dec-04   |                                             | --                                            | 19.98                                           | 3,409.32                                               | --                                                 |
|              | 3-Jan-05    |                                             | --                                            | 20.42                                           | 3,408.88                                               | --                                                 |
|              | 18-Jan-05   |                                             | --                                            | 20.70                                           | 3,408.60                                               | --                                                 |
|              | 1-Feb-05    |                                             | --                                            | 20.90                                           | 3,408.40                                               | --                                                 |
|              | 21-Mar-05   |                                             | --                                            | 21.52                                           | 3,407.78                                               | --                                                 |
|              | 21-Apr-05   |                                             | --                                            | 21.64                                           | 3,407.66                                               | --                                                 |
|              | 5-May-05    |                                             | --                                            | 21.62                                           | 3,407.68                                               | --                                                 |
|              | 17-May-05   |                                             | --                                            | 21.77                                           | 3,407.53                                               | --                                                 |
|              | 15-Aug-05   |                                             | --                                            | 21.91                                           | 3,407.39                                               | --                                                 |
|              | 5-Oct-05    |                                             | --                                            | 21.98                                           | 3,407.32                                               | --                                                 |
|              | 18-Nov-05   |                                             | --                                            | 22.25                                           | 3,407.05                                               | --                                                 |
| MW-7         | 10-Jul-02   | 3,431.37                                    |                                               |                                                 |                                                        |                                                    |
|              | 18-Nov-02   |                                             |                                               |                                                 |                                                        |                                                    |
|              | 13-Dec-02   |                                             |                                               |                                                 |                                                        |                                                    |
|              | 24-Mar-03   |                                             |                                               |                                                 |                                                        |                                                    |
|              | 15-Apr-03   |                                             |                                               |                                                 |                                                        |                                                    |
|              | 2-May-03    |                                             |                                               |                                                 |                                                        |                                                    |
|              | 16-Jun-03   |                                             |                                               |                                                 |                                                        |                                                    |
|              | 14-Jul-03   |                                             |                                               |                                                 |                                                        |                                                    |
|              | 31-Jul-03   |                                             |                                               |                                                 |                                                        |                                                    |
|              | 22-Sep-03   |                                             |                                               |                                                 |                                                        |                                                    |
|              | 23-Oct-03   |                                             |                                               |                                                 |                                                        |                                                    |
|              | 5-Nov-03    |                                             |                                               |                                                 |                                                        |                                                    |
|              | 2-Jan-04    |                                             |                                               |                                                 |                                                        |                                                    |

TABLE 1

**Relative Groundwater Elevations and  
Phase Separated Hydrocarbon Thickness**

**Livingston Line - Bob McCasland - Ref #2001-11043**

| Monitor Well    | Date Gauged | Relative Top of Casing<br>Elevation (feet)* | Depth to PSH<br>Below Top of<br>Casing (feet) | Depth to Water<br>Below Top of<br>Casing (feet) | Corrected Relative<br>Groundwater Elevation<br>(feet)* | Phase Separated<br>Hydrocarbon<br>Thickness (feet) |
|-----------------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|--------------------------------------------------------|----------------------------------------------------|
| MW-7<br>(cont.) | 30-Jan-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 3-Mar-04    |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 15-Mar-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 25-Mar-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 20-Apr-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 7-May-04    |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 25-May-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 10-Jun-04   |                                             | --                                            | 27.15                                           | 3,404.22                                               | --                                                 |
|                 | 14-Jul-04   |                                             | --                                            | 25.69                                           | 3,405.68                                               | --                                                 |
|                 | 21-Jul-04   |                                             | --                                            | 25.93                                           | 3,405.44                                               | --                                                 |
|                 | 2-Aug-04    |                                             | --                                            | 26.10                                           | 3,405.27                                               | --                                                 |
|                 | 10-Sep-04   |                                             | --                                            | 25.73                                           | 3,405.64                                               | --                                                 |
|                 | 14-Sep-04   |                                             | --                                            | 25.75                                           | 3,405.62                                               | --                                                 |
|                 | 5-Oct-04    |                                             | --                                            | 22.65                                           | 3,408.72                                               | --                                                 |
|                 | 19-Oct-04   |                                             | --                                            | 21.55                                           | 3,409.82                                               | --                                                 |
|                 | 2-Nov-04    |                                             | --                                            | 21.58                                           | 3,409.79                                               | --                                                 |
|                 | 15-Nov-04   |                                             | --                                            | 21.68                                           | 3,409.69                                               | --                                                 |
|                 | 6-Dec-04    |                                             | --                                            | 21.80                                           | 3,409.57                                               | --                                                 |
|                 | 21-Dec-04   |                                             | --                                            | 21.43                                           | 3,409.94                                               | --                                                 |
|                 | 3-Jan-05    |                                             | --                                            | 22.03                                           | 3,409.34                                               | --                                                 |
|                 | 18-Jan-05   |                                             | --                                            | 22.18                                           | 3,409.19                                               | --                                                 |
|                 | 1-Feb-05    |                                             | --                                            | 22.29                                           | 3,409.08                                               | --                                                 |
|                 | 21-Mar-05   |                                             | --                                            | 22.49                                           | 3,408.88                                               | --                                                 |
|                 | 21-Apr-05   |                                             | --                                            | 22.76                                           | 3,408.61                                               | --                                                 |
|                 | 5-May-05    |                                             | --                                            | 22.74                                           | 3,408.63                                               | --                                                 |
|                 | 17-May-05   |                                             | --                                            | 22.86                                           | 3,408.51                                               | --                                                 |
|                 | 15-Aug-05   |                                             | --                                            | 23.30                                           | 3,408.07                                               | --                                                 |
|                 | 5-Oct-05    |                                             | --                                            | 23.01                                           | 3,408.36                                               | --                                                 |
|                 | 18-Nov-05   |                                             | --                                            | 23.18                                           | 3,408.19                                               | --                                                 |
| MW-8            | 10-Jul-02   | 3,431.07                                    |                                               |                                                 |                                                        |                                                    |
|                 | 18-Nov-02   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 13-Dec-02   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 24-Mar-03   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 15-Apr-03   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 2-May-03    |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 16-Jun-03   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 14-Jul-03   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 31-Jul-03   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 22-Sep-03   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 23-Oct-03   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 5-Nov-03    |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 2-Jan-04    |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 30-Jan-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 3-Mar-04    |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 15-Mar-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 25-Mar-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 20-Apr-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 7-May-04    |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 25-May-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 10-Jun-04   |                                             | --                                            | 27.52                                           | 3,403.55                                               | --                                                 |
|                 | 14-Jul-04   |                                             | --                                            | 25.69                                           | 3,405.38                                               | --                                                 |
|                 | 21-Jul-04   |                                             | --                                            | 25.46                                           | 3,405.61                                               | --                                                 |
|                 | 2-Aug-04    |                                             | --                                            | 25.88                                           | 3,405.19                                               | --                                                 |
|                 | 10-Sep-04   |                                             | --                                            | 25.35                                           | 3,405.72                                               | --                                                 |
|                 | 14-Sep-04   |                                             | --                                            | 25.51                                           | 3,405.56                                               | --                                                 |

TABLE 1

**Relative Groundwater Elevations and  
Phase Separated Hydrocarbon Thickness**

**Livingston Line - Bob McCasland - Ref #2001-11043**

| Monitor Well    | Date Gauged | Relative Top of Casing<br>Elevation (feet)* | Depth to PSH<br>Below Top of<br>Casing (feet) | Depth to Water<br>Below Top of<br>Casing (feet) | Corrected Relative<br>Groundwater Elevation<br>(feet)* | Phase Separated<br>Hydrocarbon<br>Thickness (feet) |    |
|-----------------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|--------------------------------------------------------|----------------------------------------------------|----|
| MW-8<br>(cont.) | 5-Oct-04    |                                             | --                                            | 20.30                                           | 3,410.77                                               | --                                                 |    |
|                 | 19-Oct-04   |                                             | --                                            | 19.44                                           | 3,411.63                                               | --                                                 |    |
|                 | 2-Nov-04    |                                             | --                                            | 19.46                                           | 3,411.61                                               | --                                                 |    |
|                 | 15-Nov-04   |                                             | --                                            | 21.07                                           | 3,410.00                                               | --                                                 |    |
|                 | 6-Dec-04    |                                             | --                                            | 21.48                                           | 3,409.59                                               | --                                                 |    |
|                 | 21-Dec-04   |                                             | --                                            | 21.58                                           | 3,409.49                                               | --                                                 |    |
|                 | 3-Jan-05    |                                             | --                                            | 21.98                                           | 3,409.09                                               | --                                                 |    |
|                 | 18-Jan-05   |                                             | --                                            | 22.21                                           | 3,408.86                                               | --                                                 |    |
|                 | 1-Feb-05    |                                             | --                                            | 22.37                                           | 3,408.70                                               | --                                                 |    |
|                 | 21-Mar-05   |                                             | --                                            | 22.72                                           | 3,408.35                                               | --                                                 |    |
|                 | 21-Apr-05   |                                             | --                                            | 22.92                                           | 3,408.15                                               | --                                                 |    |
|                 | 5-May-05    |                                             | --                                            | 22.90                                           | 3,408.17                                               | --                                                 |    |
|                 | 17-May-05   |                                             | --                                            | 23.16                                           | 3,407.91                                               | --                                                 |    |
|                 | 15-Aug-05   |                                             | --                                            | 23.41                                           | 3,407.66                                               | --                                                 |    |
|                 | 5-Oct-05    |                                             | --                                            | 23.29                                           | 3,407.78                                               | --                                                 |    |
| 18-Nov-05       |             | --                                          | 23.55                                         | 3,407.52                                        | --                                                     |                                                    |    |
| MW-9            | 10-Jul-02   | 3,429.79                                    |                                               |                                                 |                                                        |                                                    |    |
|                 | 18-Nov-02   |                                             |                                               |                                                 |                                                        |                                                    |    |
|                 | 13-Dec-02   |                                             |                                               |                                                 |                                                        |                                                    |    |
|                 | 24-Mar-03   |                                             |                                               |                                                 |                                                        |                                                    |    |
|                 | 15-Apr-03   |                                             |                                               |                                                 |                                                        |                                                    |    |
|                 | 2-May-03    |                                             |                                               |                                                 |                                                        |                                                    |    |
|                 | 16-Jun-03   |                                             |                                               |                                                 |                                                        |                                                    |    |
|                 | 14-Jul-03   |                                             |                                               |                                                 |                                                        |                                                    |    |
|                 | 31-Jul-03   |                                             |                                               |                                                 |                                                        |                                                    |    |
|                 | 22-Sep-03   |                                             |                                               |                                                 |                                                        |                                                    |    |
|                 | 23-Oct-03   |                                             |                                               |                                                 |                                                        |                                                    |    |
|                 | 5-Nov-03    |                                             |                                               |                                                 |                                                        |                                                    |    |
|                 | 2-Jan-04    |                                             |                                               |                                                 |                                                        |                                                    |    |
|                 | 30-Jan-04   |                                             |                                               |                                                 |                                                        |                                                    |    |
|                 | 3-Mar-04    |                                             |                                               |                                                 |                                                        |                                                    |    |
|                 | 15-Mar-04   |                                             |                                               |                                                 |                                                        |                                                    |    |
|                 | 25-Mar-04   |                                             |                                               |                                                 |                                                        |                                                    |    |
|                 | 20-Apr-04   |                                             |                                               |                                                 |                                                        |                                                    |    |
|                 | 7-May-04    |                                             |                                               |                                                 |                                                        |                                                    |    |
|                 | 25-May-04   |                                             |                                               |                                                 |                                                        |                                                    |    |
|                 | 10-Jun-04   |                                             |                                               |                                                 |                                                        |                                                    |    |
|                 | 14-Jul-04   |                                             |                                               |                                                 |                                                        |                                                    |    |
|                 | 21-Jul-04   |                                             |                                               | --                                              | 24.02                                                  | 3,405.77                                           | -- |
|                 | 2-Aug-04    |                                             |                                               | --                                              | 23.84                                                  | 3,405.95                                           | -- |
|                 | 10-Sep-04   |                                             |                                               | --                                              | 24.77                                                  | 3,405.02                                           | -- |
|                 | 14-Sep-04   |                                             |                                               | --                                              | 24.21                                                  | 3,405.58                                           | -- |
|                 | 5-Oct-04    |                                             |                                               | --                                              | 24.27                                                  | 3,405.52                                           | -- |
|                 | 19-Oct-04   |                                             |                                               | --                                              | 15.51                                                  | 3,414.28                                           | -- |
|                 | 2-Nov-04    |                                             |                                               | --                                              | 16.54                                                  | 3,413.25                                           | -- |
|                 | 15-Nov-04   |                                             |                                               | --                                              | 16.57                                                  | 3,413.22                                           | -- |
|                 | 6-Dec-04    |                                             |                                               | --                                              | 19.53                                                  | 3,410.26                                           | -- |
|                 | 21-Dec-04   |                                             |                                               | --                                              | 20.02                                                  | 3,409.77                                           | -- |
|                 | 3-Jan-05    |                                             |                                               | --                                              | 20.36                                                  | 3,409.43                                           | -- |
|                 | 18-Jan-05   |                                             |                                               | --                                              | 20.83                                                  | 3,408.96                                           | -- |
|                 | 1-Feb-05    |                                             |                                               | --                                              | 21.10                                                  | 3,408.69                                           | -- |
|                 | 21-Mar-05   |                                             |                                               | --                                              | 21.30                                                  | 3,408.49                                           | -- |
| 21-Apr-05       |             |                                             | --                                            | 21.69                                           | 3,408.10                                               | --                                                 |    |
| 5-May-05        |             |                                             | --                                            | 22.08                                           | 3,407.71                                               | --                                                 |    |
| 17-May-05       |             |                                             | --                                            | 22.06                                           | 3,407.73                                               | --                                                 |    |
| 15-Aug-05       |             |                                             | --                                            | 22.23                                           | 3,407.56                                               | --                                                 |    |
|                 |             |                                             | --                                            | 22.30                                           | 3,407.49                                               | --                                                 |    |

TABLE 1

Relative Groundwater Elevations and  
Phase Separated Hydrocarbon Thickness

Livingston Line - Bob McCasland - Ref #2001-11043

| Monitor Well    | Date Gauged | Relative Top of Casing<br>Elevation (feet)* | Depth to PSH<br>Below Top of<br>Casing (feet) | Depth to Water<br>Below Top of<br>Casing (feet) | Corrected Relative<br>Groundwater Elevation<br>(feet)* | Phase Separated<br>Hydrocarbon<br>Thickness (feet) |
|-----------------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|--------------------------------------------------------|----------------------------------------------------|
| MW-9<br>(cont.) | 5-Oct-05    |                                             | --                                            | 22.41                                           | 3,407.38                                               | --                                                 |
|                 | 18-Nov-05   |                                             | --                                            | 22.68                                           | 3,407.11                                               | --                                                 |
| MW-10           | 10-Jul-02   | 3,429.49                                    |                                               |                                                 |                                                        |                                                    |
|                 | 18-Nov-02   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 13-Dec-02   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 24-Mar-03   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 15-Apr-03   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 2-May-03    |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 16-Jun-03   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 14-Jul-03   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 31-Jul-03   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 22-Sep-03   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 23-Oct-03   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 5-Nov-03    |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 2-Jan-04    |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 30-Jan-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 3-Mar-04    |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 15-Mar-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 25-Mar-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 20-Apr-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 7-May-04    |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 25-May-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 10-Jun-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 14-Jul-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 21-Jul-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 2-Aug-04    |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 10-Sep-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 14-Sep-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 5-Oct-04    |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 19-Oct-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 2-Nov-04    |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 15-Nov-04   |                                             | --                                            | 19.61                                           | 3,409.88                                               | --                                                 |
|                 | 6-Dec-04    |                                             | --                                            | 19.95                                           | 3,409.54                                               | --                                                 |
|                 | 21-Dec-04   |                                             | --                                            | 20.13                                           | 3,409.36                                               | --                                                 |
|                 | 3-Jan-05    |                                             | --                                            | 20.56                                           | 3,408.93                                               | --                                                 |
|                 | 18-Jan-05   |                                             | --                                            | 20.79                                           | 3,408.70                                               | --                                                 |
|                 | 1-Feb-05    |                                             | --                                            | 20.98                                           | 3,408.51                                               | --                                                 |
|                 | 21-Mar-05   |                                             | --                                            | 21.36                                           | 3,408.13                                               | --                                                 |
|                 | 21-Apr-05   |                                             | --                                            | 21.64                                           | 3,407.85                                               | --                                                 |
|                 | 5-May-05    |                                             | --                                            | 21.69                                           | 3,407.80                                               | --                                                 |
|                 | 17-May-05   |                                             | --                                            | 21.81                                           | 3,407.68                                               | --                                                 |
|                 | 15-Aug-05   |                                             | --                                            | 21.93                                           | 3,407.56                                               | --                                                 |
|                 | 5-Oct-05    |                                             | --                                            | 21.98                                           | 3,407.51                                               | --                                                 |
|                 | 18-Nov-05   |                                             | --                                            | 22.22                                           | 3,407.27                                               | --                                                 |
| MW-11           | 10-Jul-02   | 3,428.32                                    |                                               |                                                 |                                                        |                                                    |
|                 | 18-Nov-02   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 13-Dec-02   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 24-Mar-03   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 15-Apr-03   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 2-May-03    |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 16-Jun-03   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 14-Jul-03   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 31-Jul-03   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 22-Sep-03   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 23-Oct-03   |                                             |                                               |                                                 |                                                        |                                                    |
|                 | 5-Nov-03    |                                             |                                               |                                                 |                                                        |                                                    |

TABLE 1

Relative Groundwater Elevations and  
Phase Separated Hydrocarbon Thickness

Livingston Line - Bob McCasland - Ref #2001-11043

| Monitor Well     | Date Gauged | Relative Top of Casing<br>Elevation (feet)* | Depth to PSH<br>Below Top of<br>Casing (feet) | Depth to Water<br>Below Top of<br>Casing (feet) | Corrected Relative<br>Groundwater Elevation<br>(feet)* | Phase Separated<br>Hydrocarbon<br>Thickness (feet) |
|------------------|-------------|---------------------------------------------|-----------------------------------------------|-------------------------------------------------|--------------------------------------------------------|----------------------------------------------------|
| MW-11<br>(cont.) | 2-Jan-04    |                                             |                                               |                                                 |                                                        |                                                    |
|                  | 30-Jan-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                  | 3-Mar-04    |                                             |                                               |                                                 |                                                        |                                                    |
|                  | 15-Mar-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                  | 25-Mar-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                  | 20-Apr-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                  | 7-May-04    |                                             |                                               |                                                 |                                                        |                                                    |
|                  | 25-May-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                  | 10-Jun-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                  | 14-Jul-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                  | 21-Jul-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                  | 2-Aug-04    |                                             |                                               |                                                 |                                                        |                                                    |
|                  | 10-Sep-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                  | 14-Sep-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                  | 5-Oct-04    |                                             |                                               |                                                 |                                                        |                                                    |
|                  | 19-Oct-04   |                                             |                                               |                                                 |                                                        |                                                    |
|                  | 2-Nov-04    |                                             |                                               |                                                 |                                                        |                                                    |
|                  | 15-Nov-04   |                                             | --                                            | 18.26                                           | 3,410.06                                               | --                                                 |
|                  | 6-Dec-04    |                                             | --                                            | 18.67                                           | 3,409.65                                               | --                                                 |
|                  | 21-Dec-04   |                                             | --                                            | 18.93                                           | 3,409.39                                               | --                                                 |
|                  | 3-Jan-05    |                                             | --                                            | 19.4                                            | 3,408.92                                               | --                                                 |
|                  | 18-Jan-05   |                                             | --                                            | 19.68                                           | 3,408.64                                               | --                                                 |
|                  | 1-Feb-05    |                                             | --                                            | 19.9                                            | 3,408.42                                               | --                                                 |
|                  | 21-Mar-05   |                                             | --                                            | 20.34                                           | 3,407.98                                               | --                                                 |
|                  | 21-Apr-05   |                                             | --                                            | 20.70                                           | 3,407.62                                               | --                                                 |
|                  | 5-May-05    |                                             | --                                            | 20.71                                           | 3,407.61                                               | --                                                 |
|                  | 17-May-05   |                                             | --                                            | 20.87                                           | 3,407.45                                               | --                                                 |
|                  | 15-Aug-05   |                                             | --                                            | 20.95                                           | 3,407.37                                               | --                                                 |
|                  | 5-Oct-05    |                                             | --                                            | 21.04                                           | 3,407.28                                               | --                                                 |
|                  | 18-Nov-05   |                                             | --                                            | 21.31                                           | 3,407.01                                               | --                                                 |

\* = Wells are referenced to the TOC of groundwater monitoring well MW-2 (set to elevation 3,432.62 feet)

-- = Not Detected

Blank Cell = Well was not gauged

NS = Not Surveyed

Gray-highlighted Cells = Current year data

Yellow-highlighted Cells = Groundwater sampling events

TABLE 2

## Summary of Groundwater Analytical Results

Livingston Line - Bob McCasland

Reference #2001-11043

| Monitor Well Location | Date      | Benzene<br>(µg/L) | Toluene<br>(µg/L) | Ethylbenzene<br>(µg/L) | m,p-Xylenes<br>(µg/L) | o-Xylene<br>(µg/L) | Total Xylenes<br>(µg/L) | Chloride<br>(mg/L) | Total Dissolved Solids<br>(mg/L) | TPH as Diesel<br>(mg/L) | TPH as Gasoline<br>(mg/L) | Total TPH<br>(mg/L) |
|-----------------------|-----------|-------------------|-------------------|------------------------|-----------------------|--------------------|-------------------------|--------------------|----------------------------------|-------------------------|---------------------------|---------------------|
| Test Well #1          | 22-Aug-01 | 1,020             | 1,040             | 468                    | 416                   | 238                | 654                     | 706                | 2,230                            | 0.44                    | 6.2                       | 6.64                |
|                       | 26-Nov-01 | 1,750             | 1,340             | 321                    | 548                   | 308                | 856                     |                    |                                  | 1.47                    | 13.6                      | 15.1                |
|                       | 20-Aug-01 | 1,670             | 5,200             | 2,390                  | 4,770                 | 2,450              | 7,220                   | 647                | 1,910                            | 56.1                    | 2.1                       | 58.2                |
|                       | 13-Sep-01 | 2,000             | 3,000             | <1                     | <1                    | <1                 | <2                      | 549                | 1,650                            | <3                      | <3                        | <6                  |
|                       | 24-Jan-02 | <1                | <1                | <1                     | <1                    | <1                 | <2                      | 617                | 1,830                            |                         |                           |                     |
|                       | 12-Apr-02 | <1                | <1                | <1                     | <1                    | <1                 | <2                      |                    |                                  |                         |                           |                     |
|                       | 10-Jul-02 | 1.88              | <1                | 1.87                   | 1.04                  | <1                 | 1.04                    |                    |                                  |                         |                           |                     |
|                       | 15-Apr-03 | <1                | <1                | <1                     | <1                    | <1                 | <2                      |                    |                                  |                         |                           |                     |
|                       | 14-Jul-03 | <1                | <1                | <1                     | <1                    | <1                 | <2                      |                    |                                  |                         |                           |                     |
|                       | 20-Apr-04 | <1                | <1                | <1                     | <2                    | <1                 | <3                      |                    |                                  |                         |                           |                     |
| Test Well #2<br>MW-1  | 14-Jul-04 | <1                | <1                | <1                     | <2                    | <1                 | <3                      |                    |                                  |                         |                           |                     |
|                       | 14-Sep-04 | <1                | <1                | <1                     | <2                    | <1                 | <3                      |                    |                                  |                         |                           |                     |
|                       | 21-Dec-04 | <1                | <1                | <1                     | <2                    | <1                 | <3                      |                    |                                  |                         |                           |                     |
|                       | 21-Mar-05 | <1                | <1                | <1                     | <2                    | <1                 | <3                      |                    |                                  |                         |                           |                     |
|                       | 17-May-05 |                   |                   |                        |                       |                    | NOT ANALYZED            |                    |                                  |                         |                           |                     |
|                       | 15-Aug-05 | <1                | <1                | <1                     | <2                    | <1                 | <3                      |                    |                                  |                         |                           |                     |
|                       | 18-Nov-05 |                   |                   |                        |                       |                    | NOT ANALYZED            |                    |                                  |                         |                           |                     |
|                       | 24-Jan-02 | 368               | <1                | 53.7                   | 65                    | 12.5               | 77.5                    | 712                | 2,000                            |                         |                           |                     |
|                       | 12-Apr-02 | 127               | <1                | 25.4                   | 28.3                  | 8.33               | 36.6                    |                    |                                  |                         |                           |                     |
|                       | 10-Jul-02 | 67                | 1.88              | 17.6                   | 15.4                  | 3.89               | 19.3                    |                    |                                  |                         |                           |                     |
| Test Well #2<br>MW-2  | 15-Apr-03 | 229               | 1                 | 58.8                   | 44.3                  | 12.4               | 56.7                    |                    |                                  |                         |                           |                     |
|                       | 14-Jul-03 | 185               | <1                | 35.1                   | 29.5                  | 8.23               | 37.7                    |                    |                                  |                         |                           |                     |
|                       | 20-Apr-04 | 125               | <1                | 34.1                   | 56.7                  | 15.3               | 72.0                    |                    |                                  |                         |                           |                     |
|                       | 14-Jul-04 | 209               | 6.16              | 47                     | 21.2                  | 15.4               | 36.6                    |                    |                                  |                         |                           |                     |
|                       | 14-Sep-04 | 125               | 2.76              | 35.8                   | 10.6                  | 7.01               | 17.6                    |                    |                                  |                         |                           |                     |
|                       | 21-Dec-04 | 267               | 1.24              | 35.7                   | <2                    | 1.09               | 1.1                     |                    |                                  |                         |                           |                     |
|                       | 21-Mar-05 | 186               | <1                | 13.6                   | 5.41                  | 1.99               | 7.40                    |                    |                                  |                         |                           |                     |
|                       | 17-May-05 | 342               | 1.00              | 28.1                   | 33.4                  | 14.7               | 48.1                    |                    |                                  |                         |                           |                     |
|                       | 15-Aug-05 | 145               | 7.18              | 18.7                   | 20.0                  | 8.49               | 28.5                    |                    |                                  |                         |                           |                     |
|                       | 18-Nov-05 | 413               | 2.07              | 114                    | 122                   | 34.9               | 157                     |                    |                                  |                         |                           |                     |
| Test Well #2<br>MW-3  | 13-Sep-01 | <1                | <1                | <1                     | <1                    | <1                 | <2                      | 922                | 2,750                            | <3                      | <3                        | <6                  |
|                       | 24-Jan-02 | <1                | <1                | <1                     | <1                    | <1                 | <2                      | 1,060              | 2,760                            |                         |                           |                     |
|                       | 12-Apr-02 | <1                | <1                | <1                     | <1                    | <1                 | <2                      |                    |                                  |                         |                           |                     |
|                       | 10-Jul-02 | <1                | <1                | <1                     | <1                    | <1                 | <2                      |                    |                                  |                         |                           |                     |
|                       | 15-Apr-03 | <1                | <1                | <1                     | <1                    | <1                 | <2                      |                    |                                  |                         |                           |                     |
|                       | 14-Jul-03 | <1                | <1                | <1                     | <1                    | <1                 | <2                      |                    |                                  |                         |                           |                     |
|                       | 20-Apr-04 | <1                | <1                | <1                     | <2                    | <1                 | <3                      |                    |                                  |                         |                           |                     |
|                       | 14-Jul-04 | <1                | <1                | <1                     | <2                    | <1                 | <3                      |                    |                                  |                         |                           |                     |
|                       | 14-Sep-04 | <1                | <1                | <1                     | <2                    | <1                 | <3                      |                    |                                  |                         |                           |                     |
|                       | 21-Dec-04 | <1                | <1                | <1                     | <2                    | <1                 | <3                      |                    |                                  |                         |                           |                     |
| Test Well #2<br>MW-3  | 21-Mar-05 |                   |                   |                        |                       |                    | NOT ANALYZED            |                    |                                  |                         |                           |                     |
|                       | 17-May-05 |                   |                   |                        |                       |                    | NOT ANALYZED            |                    |                                  |                         |                           |                     |
|                       | 15-Aug-05 | <1                | <1                | <1                     | <2                    | <1                 | <3                      |                    |                                  |                         |                           |                     |
|                       | 18-Nov-05 |                   |                   |                        |                       |                    | NOT ANALYZED            |                    |                                  |                         |                           |                     |

TABLE 2

## Summary of Groundwater Analytical Results

Livingston Line - Bob McCasland

Reference #2001-11043

| 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) | Chloride (mg/L) | Total Dissolved Solids (mg/L) | TPH as Diesel (mg/L) | TPH as Gasoline (mg/L) | Total TPH (mg/L) |
|-----------------------|-----------|----------------|----------------|---------------------|-----------------------------------------------------------------|-----------------|----------------------|-----------------|-------------------------------|----------------------|------------------------|------------------|
| MW-4                  | 24-Jan-02 |                |                |                     | Not Sampled due to the Presence of Phase Separated Hydrocarbons |                 |                      |                 |                               |                      |                        |                  |
|                       | 12-Apr-02 | 480            | 361            | 199                 | 334                                                             | 216             | 550                  |                 |                               |                      |                        |                  |
|                       | 10-Jul-02 |                |                |                     | Not Sampled due to the Presence of Phase Separated Hydrocarbons |                 |                      |                 |                               |                      |                        |                  |
|                       | 15-Apr-03 |                |                |                     | Not Sampled due to the Presence of Phase Separated Hydrocarbons |                 |                      |                 |                               |                      |                        |                  |
|                       | 14-Jul-03 |                |                |                     | Not Sampled due to the Presence of Phase Separated Hydrocarbons |                 |                      |                 |                               |                      |                        |                  |
|                       | 20-Apr-04 | 3,210          | 2,310          | 845                 | 1,870                                                           | 1,030           | 2,900                |                 |                               |                      |                        |                  |
|                       | 14-Jul-04 |                |                |                     | Not Sampled due to the Presence of Phase Separated Hydrocarbons |                 |                      |                 |                               |                      |                        |                  |
|                       | 14-Sep-04 |                |                |                     | Not Sampled due to the Presence of Phase Separated Hydrocarbons |                 |                      |                 |                               |                      |                        |                  |
|                       | 21-Dec-04 | 829            | 6.60           | 173                 | 176                                                             | 59.5            | 236                  |                 |                               |                      |                        |                  |
|                       | 21-Mar-05 |                |                |                     | Not Sampled due to the Presence of Phase Separated Hydrocarbons |                 |                      |                 |                               |                      |                        |                  |
| MW-5                  | 17-May-05 |                |                |                     | Not Sampled due to the Presence of Phase Separated Hydrocarbons |                 |                      |                 |                               |                      |                        |                  |
|                       | 15-Aug-05 |                |                |                     | Not Sampled due to the Presence of Phase Separated Hydrocarbons |                 |                      |                 |                               |                      |                        |                  |
|                       | 18-Nov-05 | 2,620          | <2             | 379                 | 711                                                             | 36.5            | 748                  |                 |                               |                      |                        |                  |
|                       | 13-Sep-01 | 535            | 75             | 84                  | 438                                                             | 40              | 478                  | 709             | 2,030                         | 6.34                 | 3.02                   | 9.36             |
|                       | 24-Jan-02 | 280            | 3.19           | 107                 | 8.28                                                            | 5.65            | 13.9                 | 635             | 2,080                         |                      |                        |                  |
|                       | 12-Apr-02 | 303            | 9.48           | 129                 | 8.16                                                            | 13.2            | 21.4                 |                 |                               |                      |                        |                  |
|                       | 10-Jul-02 |                |                |                     | NOT ANALYZED                                                    |                 |                      |                 |                               |                      |                        |                  |
|                       | 15-Apr-03 | 129            | 3.54           | 36.6                | 3.52                                                            | 2.38            | 5.90                 |                 |                               |                      |                        |                  |
|                       | 14-Jul-03 | 81.4           | <1             | 34.4                | 1.41                                                            | <1              | 1.41                 |                 |                               |                      |                        |                  |
|                       | 20-Apr-04 | 482            | 2.37           | 101                 | 60.1                                                            | 31.3            | 91.4                 |                 |                               |                      |                        |                  |
| MW-6                  | 14-Jul-04 | 70.8           | <1             | 48.6                | 4.60                                                            | 2.07            | 6.67                 |                 |                               |                      |                        |                  |
|                       | 14-Sep-04 | 118            | 1.35           | 58.8                | 4.25                                                            | 1.61            | 5.86                 |                 |                               |                      |                        |                  |
|                       | 21-Dec-04 | 204            | <1             | 67                  | <2                                                              | <1              | <3                   |                 |                               |                      |                        |                  |
|                       | 21-Mar-05 | 30.8           | <1             | 17.1                | 3.67                                                            | <1              | 3.67                 |                 |                               |                      |                        |                  |
|                       | 17-May-05 | 9.7            | <1             | <1                  | <2                                                              | <1              | <3                   |                 |                               |                      |                        |                  |
|                       | 15-Aug-05 | 13.8           | 1.73           | 4.38                | <2                                                              | <1              | <3                   |                 |                               |                      |                        |                  |
|                       | 18-Nov-05 | 10.7           | 1.15           | <1                  | <2                                                              | <1              | <3                   |                 |                               |                      |                        |                  |
|                       | 24-Jan-02 | <1             | <1             | <1                  | <1                                                              | <1              | <2                   | 745             | 2,290                         |                      |                        |                  |
|                       | 12-Apr-02 | <1             | <1             | <1                  | <1                                                              | <1              | <2                   |                 |                               |                      |                        |                  |
|                       | 10-Jul-02 | 1.53           | <1             | <1                  | <1                                                              | <1              | <2                   |                 |                               |                      |                        |                  |
| MW-7                  | 15-Apr-03 | 2.74           | <1             | <1                  | <1                                                              | <1              | <2                   |                 |                               |                      |                        |                  |
|                       | 14-Jul-03 | 2.54           | <1             | <1                  | <1                                                              | <1              | <2                   |                 |                               |                      |                        |                  |
|                       | 20-Apr-04 | 1.06           | <1             | <1                  | <2                                                              | <1              | <3                   |                 |                               |                      |                        |                  |
|                       | 14-Jul-04 | 1.95           | <1             | <1                  | <2                                                              | <1              | <3                   |                 |                               |                      |                        |                  |
|                       | 14-Sep-04 | 10.0           | <1             | <1                  | <2                                                              | <1              | <3                   |                 |                               |                      |                        |                  |
|                       | 21-Dec-04 | <1             | <1             | <1                  | <2                                                              | <1              | <3                   |                 |                               |                      |                        |                  |
|                       | 21-Mar-05 | <1             | <1             | <1                  | <2                                                              | <1              | <3                   |                 |                               |                      |                        |                  |
|                       | 17-May-05 | <1             | <1             | <1                  | <2                                                              | <1              | <3                   |                 |                               |                      |                        |                  |
|                       | 15-Aug-05 | <1             | <1             | <1                  | <2                                                              | <1              | <3                   |                 |                               |                      |                        |                  |
|                       | 18-Nov-05 | <1             | <1             | <1                  | <2                                                              | <1              | <3                   |                 |                               |                      |                        |                  |
| MW-7                  | 14-Jul-04 | <1             | <1             | <1                  | <2                                                              | <1              | <3                   |                 |                               |                      |                        |                  |
|                       | 14-Sep-04 | <1             | <1             | <1                  | <2                                                              | <1              | <3                   |                 |                               |                      |                        |                  |
|                       | 21-Dec-04 | <1             | <1             | <1                  | <2                                                              | <1              | <3                   |                 |                               |                      |                        |                  |
|                       | 21-Mar-05 | <1             | <1             | <1                  | <2                                                              | <1              | <3                   |                 |                               |                      |                        |                  |

TABLE 2

## Summary of Groundwater Alfvical Results

Livingston Line - Bob McCasland

Reference #2001-11043

| Monitor Well Location     | Date      | Benzene<br>(µg/L) | Toluene<br>(µg/L) | Ethylbenzene<br>(µg/L) | m,p-Xylenes<br>(µg/L) | o-Xylenc<br>(µg/L) | Total Xylenes<br>(µg/L) | Chloride<br>(mg/L) | Total Dissolved Solids<br>(mg/L) | TPH as Diesel<br>(mg/L) | TPH as Gasoline<br>(mg/L) | Total TPH<br>(mg/L) |
|---------------------------|-----------|-------------------|-------------------|------------------------|-----------------------|--------------------|-------------------------|--------------------|----------------------------------|-------------------------|---------------------------|---------------------|
| MW-7<br>(cont.)           | 17-May-05 | <1                | <1                | <1                     | <2                    | <1                 | <3                      |                    |                                  |                         |                           |                     |
|                           | 15-Aug-05 | <1                | <1                | <1                     | <2                    | <1                 | <3                      |                    |                                  |                         |                           |                     |
|                           | 18-Nov-05 | <1                | <1                | <1                     | <2                    | <1                 | <3                      |                    |                                  |                         |                           |                     |
|                           | 14-Jul-04 | 575               | 141               | 88.4                   | 76.2                  | 86.8               | 163                     |                    |                                  |                         |                           |                     |
| MW-8                      | 14-Sep-04 | 482               | 35.6              | 106                    | 58.2                  | 55.1               | 113                     |                    |                                  |                         |                           |                     |
|                           | 21-Dec-04 | 4,220             | 113               | 695                    | 208                   | 75                 | 283                     |                    |                                  |                         |                           |                     |
|                           | 21-Mar-05 | 5,410             | <10               | 452                    | 133                   | 15.2               | 148                     |                    |                                  |                         |                           |                     |
|                           | 17-May-05 | 2,290             | <1                | 115                    | 32.3                  | 5.68               | 38.0                    |                    |                                  |                         |                           |                     |
| MW-9                      | 15-Aug-05 | 1,210             | <1                | 75                     | 32.6                  | 1.49               | 34.1                    |                    |                                  |                         |                           |                     |
|                           | 18-Nov-05 | 670               | <1                | 29.9                   | 16.5                  | <1                 | 16.5                    |                    |                                  |                         |                           |                     |
|                           | 14-Jul-04 | 275               | 10.9              | 487                    | 305                   | 319                | 624                     |                    |                                  |                         |                           |                     |
|                           | 14-Sep-04 | 150               | 2.15              | 225                    | 29.0                  | 119                | 148                     |                    |                                  |                         |                           |                     |
| MW-10                     | 21-Dec-04 | <1                | <1                | 3                      | 2.61                  | 20.4               | 23.0                    |                    |                                  |                         |                           |                     |
|                           | 21-Mar-05 | 9.25              | <1                | 15.1                   | 9.61                  | 20.9               | 30.5                    |                    |                                  |                         |                           |                     |
|                           | 17-May-05 | 4.98              | <1                | 14.8                   | 14.5                  | 31.1               | 45.6                    |                    |                                  |                         |                           |                     |
|                           | 15-Aug-05 | 22.8              | <1                | 63                     | 20.8                  | 35.7               | 56.5                    |                    |                                  |                         |                           |                     |
| MW-11                     | 18-Nov-05 | 3.99              | <1                | 28.1                   | 27.6                  | 60.7               | 88.3                    |                    |                                  |                         |                           |                     |
|                           | 15-Nov-04 | 1,250             | 96.7              | 140                    | 109                   | 10.8               | 120                     |                    |                                  |                         |                           |                     |
|                           | 21-Mar-05 | 1,130             | 14.1              | 138                    | 50.0                  | 4.84               | 54.8                    |                    |                                  |                         |                           |                     |
|                           | 17-May-05 | 2,170             | 14.4              | 194                    | 147                   | 7.55               | 155                     |                    |                                  |                         |                           |                     |
| NMOCD Remedial Thresholds | 15-Aug-05 | 791               | <1                | 74                     | 43.7                  | <1                 | 43.7                    |                    |                                  |                         |                           |                     |
|                           | 18-Nov-05 | 1,250             | <1                | 91.6                   | 59.7                  | <1                 | 59.7                    |                    |                                  |                         |                           |                     |
|                           | 15-Nov-04 | <1                | <1                | <1                     | <2                    | <1                 | <3                      |                    |                                  |                         |                           |                     |
|                           | 21-Mar-05 | <1                | <1                | <1                     | <2                    | <1                 | <3                      |                    |                                  |                         |                           |                     |
| NMOCD Remedial Thresholds | 17-May-05 | <1                | <1                | <1                     | <2                    | <1                 | <3                      |                    |                                  |                         |                           |                     |
|                           | 15-Aug-05 | <1                | <1                | <1                     | <2                    | <1                 | <3                      |                    |                                  |                         |                           |                     |
|                           | 18-Nov-05 | <1                | <1                | <1                     | <2                    | <1                 | <3                      |                    |                                  |                         |                           |                     |
|                           | 15-Nov-04 | <1                | <1                | <1                     | <2                    | <1                 | <3                      |                    |                                  |                         |                           |                     |
| NMOCD Remedial Thresholds |           | 10                | 750               | 750                    |                       |                    | 620                     | 250                | 1,000                            |                         |                           |                     |

Red - Bolded values are at or exceed NMOCD and/or NMWQCC Remediation Threshold Limits

Blank Cell - Parameter was not analyzed

Gray-highlighted Cells - Current year data

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

**Reference #2001 - 11043**

| Monitor Well Location | Date      | Napthalene<br>(µg/L)                                            | Acenaphthylene<br>(µg/L) | Acenaphthene<br>(µg/L) | Flourene<br>(µg/L) | Phenanthrene<br>(µg/L) | Anthracene<br>(µg/L) | Fluoranthene<br>(µg/L) | Pyrene<br>(µg/L) | Benzo[a]-<br>anthracene<br>(µg/L) | Chrysene<br>(µg/L) | Benzo[b]-<br>fluoranthene<br>(µg/L) | Benzo[j,k]-<br>fluoranthene<br>(µg/L) | Benzo[a]-<br>pyrene<br>(µg/L) | Indeno[1,2,3-cd]-<br>pyrene<br>(µg/L) | Dibenz[a,h]-<br>anthracene<br>(µg/L) | Benzo[g,h,i]-<br>perylene<br>(µg/L) |
|-----------------------|-----------|-----------------------------------------------------------------|--------------------------|------------------------|--------------------|------------------------|----------------------|------------------------|------------------|-----------------------------------|--------------------|-------------------------------------|---------------------------------------|-------------------------------|---------------------------------------|--------------------------------------|-------------------------------------|
| Test Well #1          | 22-Aug-01 | 35.8                                                            | 0.175                    | 0.305                  | 0.95               | 1.67                   | 0.071                | <0.05                  | <0.05            | <0.05                             | <0.05              | <0.05                               | <0.05                                 | <0.05                         | <0.05                                 | <0.05                                | <0.05                               |
| Test Well #2          | 20-Aug-01 | 86.5                                                            | 2                        | 1.31                   | 8.72               | 19.9                   | 1.34                 | 0.611                  | 0.644            | <0.5                              | 2.74               | <0.5                                | <0.5                                  | <0.5                          | <0.5                                  | <0.5                                 | <0.5                                |
| MW-1                  | 13-Sep-01 | <5                                                              | <5                       | <5                     | <5                 | <5                     | <5                   | <5                     | <5               | <5                                | <5                 | <5                                  | <5                                    | <5                            | <5                                    | <5                                   | <5                                  |
|                       | 24-Jan-02 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 12-Apr-02 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 10-Jul-02 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 15-Apr-03 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 14-Jul-03 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 20-Apr-04 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 14-Jul-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                               |
|                       | 14-Sep-04 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 21-Dec-04 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 21-Mar-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                                | <0.05                               |
|                       | 17-May-05 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 15-Aug-05 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 18-Nov-05 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
| MW-2                  | 24-Jan-02 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 12-Apr-02 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 10-Jul-02 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 15-Apr-03 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 14-Jul-03 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 20-Apr-04 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 14-Jul-04 | 13.3                                                            | <0.05                    | <0.05                  | 0.061              | 0.497                  | <0.05                | <0.05                  | <0.05            | <0.05                             | <0.05              | <0.05                               | <0.05                                 | <0.05                         | <0.05                                 | <0.05                                | <0.05                               |
|                       | 14-Sep-04 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 21-Dec-04 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 21-Mar-05 | 9                                                               | <0.05                    | 0.054                  | 0.052              | 0.325                  | <0.05                | <0.05                  | <0.05            | <0.05                             | <0.05              | <0.05                               | <0.05                                 | <0.05                         | <0.05                                 | <0.05                                | <0.05                               |
|                       | 17-May-05 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 15-Aug-05 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 18-Nov-05 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | MW-3      | 13-Sep-01                                                       | <5                       | <5                     | <5                 | <5                     | <5                   | <5                     | <5               | <5                                | <5                 | <5                                  | <5                                    | <5                            | <5                                    | <5                                   | <5                                  |
| 24-Jan-02             |           | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
| 12-Apr-02             |           | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
| 10-Jul-02             |           | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
| 15-Apr-03             |           | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
| 14-Jul-03             |           | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
| 20-Apr-04             |           | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
| 14-Jul-04             |           | CONTAINER BROKEN IN TRANSIT                                     |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
| 14-Sep-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                               |
| 21-Dec-04             |           | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
| 21-Mar-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                                | <0.05                               |
| 17-May-05             |           | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
| 15-Aug-05             |           | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
| 18-Nov-05             |           | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
| MW-4                  | 24-Jan-02 | NOT SAMPLED DUE TO THE PRESENCE OF PHASE SEPARATED HYDROCARBONS |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 12-Apr-02 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 10-Jul-02 | NOT SAMPLED DUE TO THE PRESENCE OF PHASE SEPARATED HYDROCARBONS |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 15-Apr-03 | NOT SAMPLED DUE TO THE PRESENCE OF PHASE SEPARATED HYDROCARBONS |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 14-Jul-03 | NOT SAMPLED DUE TO THE PRESENCE OF PHASE SEPARATED HYDROCARBONS |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 20-Apr-04 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 14-Jul-04 | NOT SAMPLED DUE TO THE PRESENCE OF PHASE SEPARATED HYDROCARBONS |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 14-Sep-04 | NOT SAMPLED DUE TO THE PRESENCE OF PHASE SEPARATED HYDROCARBONS |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 21-Dec-04 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 21-Mar-05 | NOT SAMPLED DUE TO THE PRESENCE OF PHASE SEPARATED HYDROCARBONS |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 17-May-05 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 15-Aug-05 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | 18-Nov-05 | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                       | MW-5      | 13-Sep-01                                                       | 49                       | <5                     | <5                 | <5                     | <5                   | <5                     | <5               | <5                                | <5                 | <5                                  | <5                                    | <5                            | <5                                    | <5                                   | <5                                  |
| 24-Jan-02             |           | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
| 12-Apr-02             |           | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
| 10-Jul-02             |           | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
| 15-Apr-03             |           | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
| 14-Jul-03             |           | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
| 20-Apr-04             |           | NOT ANALYZED                                                    |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
| 14-Jul-04             |           | CONTAINER BROKE IN TRANSIT                                      |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
| 14-Sep-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                               |
|                       |           |                                                                 |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |

TABLE 3

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

Livingston Line - Bob McCasland

Reference #2001 - 11043

| Monitor Well Location     | Date      | Napthalene<br>(µg/L)       | Acenaphthylene<br>(µg/L) | Acenaphthene<br>(µg/L) | Flourene<br>(µg/L) | Phenanthrene<br>(µg/L) | Anthracene<br>(µg/L) | Fluoranthene<br>(µg/L) | Pyrene<br>(µg/L) | Benzo[a]-<br>anthracene<br>(µg/L) | Chrysene<br>(µg/L) | Benzo[b]-<br>fluoranthene<br>(µg/L) | Benzo[k,j]-<br>fluoranthene<br>(µg/L) | Benzo[a]-<br>pyrene<br>(µg/L) | Indeno[1,2,3-cd]-<br>pyrene<br>(µg/L) | Dibenz[a,h]-<br>anthracene<br>(µg/L) | Benzo[g,h,i]-<br>perylene<br>(µg/L) |
|---------------------------|-----------|----------------------------|--------------------------|------------------------|--------------------|------------------------|----------------------|------------------------|------------------|-----------------------------------|--------------------|-------------------------------------|---------------------------------------|-------------------------------|---------------------------------------|--------------------------------------|-------------------------------------|
| MW-5<br>(cont.)           | 21-Dec-04 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 21-Mar-05 | CONTAINER BROKE IN TRANSIT |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 17-May-05 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 15-Aug-05 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 18-Nov-05 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
| MW-6                      | 24-Jan-02 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 12-Apr-02 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 10-Jul-02 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 15-Apr-03 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 14-Jul-03 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 20-Apr-04 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 14-Jul-04 | 1.22                       | <0.05                    | <0.05                  | <0.05              | 0.085                  | <0.05                | <0.05                  | <0.05            | <0.05                             | <0.05              | <0.05                               | <0.05                                 | <0.05                         | <0.05                                 | <0.05                                | <0.05                               |
|                           | 14-Sep-04 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 21-Dec-04 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 21-Mar-05 | 0.089                      | <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                               |
|                           | 17-May-05 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 15-Aug-05 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 18-Nov-05 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
| MW-7                      | 14-Jul-04 | 0.261                      | <0.05                    | <0.05                  | <0.05              | 0.293                  | <0.05                | <0.05                  | <0.05            | <0.05                             | <0.05              | <0.05                               | <0.05                                 | <0.05                         | <0.05                                 | <0.05                                | <0.05                               |
|                           | 14-Sep-04 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 21-Dec-04 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 21-Mar-05 | 0.45                       | <0.05                    | <0.05                  | <0.05              | 0.222                  | <0.05                | <0.05                  | <0.05            | <0.05                             | <0.05              | <0.05                               | <0.05                                 | <0.05                         | <0.05                                 | <0.05                                | <0.05                               |
|                           | 17-May-05 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 15-Aug-05 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
| MW-8                      | 14-Jul-04 | 4.94                       | 0.064                    | <0.05                  | 0.127              | 1.43                   | <0.05                | <0.05                  | <0.05            | <0.05                             | <0.05              | <0.05                               | <0.05                                 | <0.05                         | <0.05                                 | <0.05                                | <0.05                               |
|                           | 14-Sep-04 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 21-Dec-04 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 21-Mar-05 | 5.70                       | <0.05                    | <0.05                  | <0.05              | 0.238                  | <0.05                | <0.05                  | <0.05            | <0.05                             | <0.05              | <0.05                               | <0.05                                 | <0.05                         | <0.05                                 | <0.05                                | <0.05                               |
|                           | 17-May-05 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 15-Aug-05 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
| MW-9                      | 14-Jul-04 | 7.98                       | <0.05                    | 0.089                  | 0.306              | 0.08                   | <0.05                | <0.05                  | <0.05            | <0.05                             | <0.05              | <0.05                               | <0.05                                 | <0.05                         | <0.05                                 | <0.05                                | <0.05                               |
|                           | 14-Sep-04 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 21-Dec-04 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 21-Mar-05 | 1.26                       | <0.05                    | <0.05                  | 0.076              | 0.068                  | <0.05                | <0.05                  | <0.05            | <0.05                             | <0.05              | <0.05                               | <0.05                                 | <0.05                         | <0.05                                 | <0.05                                | <0.05                               |
|                           | 17-May-05 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 15-Aug-05 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
| MW-10                     | 18-Nov-05 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 15-Nov-04 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 21-Mar-05 | 7.38                       | 0.051                    | 0.083                  | 0.292              | 0.654                  | <0.05                | <0.05                  | <0.05            | <0.05                             | <0.05              | <0.05                               | <0.05                                 | <0.05                         | <0.05                                 | <0.05                                | <0.05                               |
|                           | 17-May-05 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
| MW-11                     | 15-Aug-05 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 18-Nov-05 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 15-Nov-04 | NOT ANALYZED               |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       |                               |                                       |                                      |                                     |
|                           | 21-Mar-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                                | <0.05                               |
| NMOCD Remedial Thresholds |           | 30                         |                          |                        |                    |                        |                      |                        |                  |                                   |                    |                                     |                                       | 0.70                          |                                       |                                      |                                     |

Red = Bolded values are at or exceed NMOCD and/or NMWQCC Remediation Threshold Limits

-- = Parameter was not analyzed

Gray-highlighted cells indicate current year data

TABLE 4

Summary of Groundwater Sampling Recommendations

Plains Pipeline, LP

Livingston Line - Bob McCasland (Ref. #2001-11043)

| Monitoring Well | Eight Quarters Below NMWQCC Standards | Sampling Schedule |             |             |             | Notes                                                               |
|-----------------|---------------------------------------|-------------------|-------------|-------------|-------------|---------------------------------------------------------------------|
|                 |                                       | 1st Quarter       | 2nd Quarter | 3rd Quarter | 4th Quarter |                                                                     |
| MW-1            | Yes                                   |                   |             | X           |             | BTEX (quarterly);PAH (annually)                                     |
| MW-2            | No                                    | X                 | X           | X           | X           | BTEX (quarterly); PAH (annually)                                    |
| MW-3            | Yes                                   |                   |             | X           |             | BTEX and PAH (annually)                                             |
| MW-4            | No                                    | X                 | X           | X           | X           | PSH Impacted (Check monthly)<br>BTEX (quarterly)<br>PAH ( annually) |
| MW-5            | No                                    | X                 | X           | X           | X           | BTEX (quarterly); PAH (annually)                                    |
| MW-6            | No                                    | X                 | X           | X           | X           | BTEX (quarterly);PAH (annually)                                     |
| MW-7            | No                                    | X                 | X           | X           | X           | BTEX (quarterly);PAH (annually)                                     |
| MW-8            | No                                    | X                 | X           | X           | X           | BTEX (quarterly);PAH (annually)                                     |
| MW-9            | No                                    | X                 | X           | X           | X           | BTEX (quarterly);PAH (annually)                                     |
| MW-10           | No                                    | X                 | X           | X           | X           | BTEX (quarterly);PAH (annually)                                     |
| MW-11           | No                                    | X                 | X           | X           | X           | BTEX (quarterly);PAH (annually)                                     |

## **APPENDIX**

**APPENDIX A**

**LABORATORY ANALYTICAL RESULTS**

**AND**

**CHAIN-OF-CUSTODY FORMS**



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  
Euless, NM 88231

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

**Report#/Lab ID#:** 164980 **Report Date:** 04/11/05

**Project ID:** 2001-11043

**Sample Name:** LL-BM032105MW-1

**Sample Matrix:** water

**Date Received:** 03/23/2005 **Time:** 13:15

**Date Sampled:** 03/21/2005 **Time:** 08:07

#### REPORT OF ANALYSIS

#### QUALITY ASSURANCE DATA 1

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| A/BN Extraction-PAH          | ---    | ---   | ---              | ---   | 03/24/05 | 3520                | ---                     | ---                | ---                 | ---              | ---              |
| Extractable organics-PAH     | ---    | ---   | ---              | ---   | 03/31/05 | 610 & 8270c         | ---                     | ---                | ---                 | ---              | ---              |
| Volatile organics-8260b/BTEX | ---    | ---   | ---              | ---   | 03/24/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                      | <1     | µg/L  | 1                | <1    | 03/24/05 | 8260b               | ---                     | 2.5                | 92.6                | 86.9             | 91.2             |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 03/24/05 | 8260b               | ---                     | 4.6                | 87.9                | 88.8             | 89.7             |
| m,p-Xylenes                  | <2     | µg/L  | 2                | <2    | 03/24/05 | 8260b               | S,M                     | 4.7                | 86.6                | 86.7             | 92.6             |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 03/24/05 | 8260b               | ---                     | 2.9                | 93                  | 93.8             | 93.9             |
| Toluene                      | <1     | µg/L  | 1                | <1    | 03/24/05 | 8260b               | ---                     | 4.3                | 88.2                | 83.1             | 85               |
| Acenaphthene                 | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 3.6                | 44.4                | 112.6            | 45.8             |
| Acenaphthylene               | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 3.6                | 46.7                | 115.3            | 46.7             |
| Anthracene                   | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 4.7                | 47.8                | 111.9            | 52.6             |
| Benzo[a]anthracene           | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 37.7               | 24.4                | 106.2            | 59.6             |
| Benzo[a]pyrene               | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 42.8               | 12                  | 111.4            | 61.4             |
| Benzo[b]fluoranthene         | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 50.2               | 12.4                | 115.5            | 62.5             |
| Benzo[g,h,i]perylene         | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | S,M,P                   | 34.6               | 8.5                 | 112.9            | 57.4             |
| Benzo[j,k]fluoranthene       | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 38.5               | 13.2                | 111.4            | 63.4             |
| Chrysene                     | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 33.4               | 25.7                | 110.3            | 58.3             |
| Dibenz[a,h]anthracene        | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | S,M,P                   | 34                 | 8                   | 113.7            | 51.1             |
| Fluoranthene                 | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 15                 | 42.7                | 108              | 56.6             |
| Fluorene                     | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 4.1                | 45.2                | 110.7            | 46.6             |
| Indeno[1,2,3-cd]pyrene       | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | S,M,P                   | 39.5               | 8.7                 | 113.6            | 58.9             |

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. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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 & SI = 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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Client: Environmental Plus, Inc.  
Attn: Iain Olness

Project ID: 2001-11043  
Sample Name: LL-BM032105MW-1

Report#/Lab ID#: 164980  
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA 1

| Parameter    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|--------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Naphthalene  | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | J                       | 1.1                | 41.6                | 113.6            | 42.6             |
| Phenanthrene | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 5                  | 45.7                | 105.2            | 51.2             |
| Pyrene       | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 17.8               | 44.3                | 106              | 59.6             |



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Client: Environmental Plus, Inc.  
Attn: Iain Olness

Project ID: 2001-11043  
Sample Name: LL-BM032105MW-1

Report#/Lab ID#: 164980  
Sample Matrix: water

#### REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method      | Recovery | Recovery Limits | Data Qualifiers |
|-----------------------|-------------|----------|-----------------|-----------------|
| 2-Fluorobiphenyl      | 610 & 8270c | 42.9     | 30-110          | ---             |
| Nitrobenzene-d5       | 610 & 8270c | 53.9     | 12-110          | ---             |
| Terphenyl-d14         | 610 & 8270c | 62.1     | 25-110          | ---             |
| 1,2-Dichloroethane-d4 | 8260b       | 91.6     | 74-124          | ---             |
| Toluene-d8            | 8260b       | 93.9     | 89-115          | ---             |

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

## Exceptions Report:

**Report #/Lab ID#:** 164980 **Matrix:** water  
**Client:** Environmental Plus, Inc. **Attn:** Iain Olness  
**Project ID:** 2001-11043  
**Sample Name:** LL-BM032105MW-1

### Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

### Sample Bottles & Preservation:

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

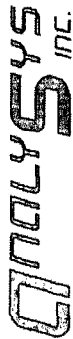
### J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

### Comments pertaining to Data Qualifiers and QC data:

| Parameter              | Qualif | Comment                                                                                                                                            |
|------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| m,p-Xylenes            | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Benzo[a]anthracene     | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzo[a]pyrene         | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzo[b]fluoranthene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzo[g,h,i]perylene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzo[k]fluoranthene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Chrysene               | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Dibenz[a,h]anthracene  | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Dibenz[a,h]anthracene  | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Dibenz[a,h]anthracene  | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Indeno[1,2,3-cd]pyrene | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Indeno[1,2,3-cd]pyrene | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Indeno[1,2,3-cd]pyrene | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Naphthalene            | J      | See J-flag discussion above.                                                                                                                       |

### Notes:



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#: 164981 Report Date: 04/11/05

Project ID: 2001-11043

Sample Name: LL-BM032105MW-6

Sample Matrix: water

Date Received: 03/23/2005 Time: 13:15

Date Sampled: 03/21/2005 Time: 12:37

## REPORT OF ANALYSIS

## QUALITY ASSURANCE DATA 1

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| A/BN Extraction-PAH          | ---    | ---   | ---              | ---   | 03/24/05 | 3520                | ---                     | ---                | ---                 | ---              | ---              |
| Extractable organics-PAH     | ---    | ---   | ---              | ---   | 03/31/05 | 610 & 8270c         | ---                     | ---                | ---                 | ---              | ---              |
| Volatile organics-8260b/BTEX | ---    | ---   | ---              | ---   | 03/24/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                      | <1     | µg/L  | 1                | <1    | 03/24/05 | 8260b               | ---                     | 2.5                | 92.6                | 86.9             | 91.2             |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 03/24/05 | 8260b               | ---                     | 4.6                | 87.9                | 88.8             | 89.7             |
| m,p-Xylenes                  | <2     | µg/L  | 2                | <2    | 03/24/05 | 8260b               | S,M                     | 4.7                | 86.6                | 86.7             | 92.6             |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 03/24/05 | 8260b               | ---                     | 2.9                | 93                  | 93.8             | 93.9             |
| Toluene                      | <1     | µg/L  | 1                | <1    | 03/24/05 | 8260b               | ---                     | 4.3                | 88.2                | 83.1             | 85               |
| Acenaphthene                 | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 3.6                | 44.4                | 112.6            | 45.8             |
| Acenaphthylene               | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 3.6                | 46.7                | 115.3            | 46.7             |
| Anthracene                   | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 4.7                | 47.8                | 111.9            | 52.6             |
| Benzo[a]anthracene           | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 37.7               | 24.4                | 106.2            | 59.6             |
| Benzo[a]pyrene               | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 42.8               | 12                  | 111.4            | 61.4             |
| Benzo[b]fluoranthene         | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 50.2               | 12.4                | 115.5            | 62.5             |
| Benzo[g,h,i]perylene         | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | S,M,P                   | 34.6               | 8.5                 | 112.9            | 57.4             |
| Benzo[j,k]fluoranthene       | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 38.5               | 13.2                | 111.4            | 63.4             |
| Chrysene                     | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 33.4               | 25.7                | 110.3            | 58.3             |
| Dibenz[a,h]anthracene        | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | S,M,P                   | 34                 | 8                   | 113.7            | 51.1             |
| Fluoranthene                 | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 15                 | 42.7                | 108              | 56.6             |
| Fluorene                     | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 4.1                | 45.2                | 110.7            | 46.6             |
| Indeno[1,2,3-cd]pyrene       | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | S,M,P                   | 39.5               | 8.7                 | 113.6            | 58.9             |

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. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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 & SI = 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.

Client: Environmental Plus, Inc.  
Attn: Iain Olness

Project ID: 2001-11043  
Sample Name: LL-BM032105MW-6

Report#/Lab ID#: 164981  
Sample Matrix: water

## REPORT OF ANALYSIS-cont.

## QUALITY ASSURANCE DATA 1

| Parameter    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|--------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Naphthalene  | 0.089  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 1.1                | 41.6                | 113.6            | 42.6             |
| Phenanthrene | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | J                       | 5                  | 45.7                | 105.2            | 51.2             |
| Pyrene       | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 17.8               | 44.3                | 106              | 59.6             |



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Client: Environmental Plus, Inc.  
Attn: Iain Olness

Project ID: 2001-11043

Sample Name: LL-BM032105MW-6

Report#/Lab ID#: 164981

Sample Matrix: water

# REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method      | Recovery | Recovery Limits | Data Qualifiers |
|-----------------------|-------------|----------|-----------------|-----------------|
| 2-Fluorobiphenyl      | 610 & 8270c | 40       | 30-110          | ---             |
| Nitrobenzene-d5       | 610 & 8270c | 47.3     | 12-110          | ---             |
| Terphenyl-d14         | 610 & 8270c | 40.5     | 25-110          | ---             |
| 1,2-Dichloroethane-d4 | 8260b       | 87.4     | 74-124          | ---             |
| Toluene-d8            | 8260b       | 94.5     | 89-115          | ---             |

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

## Exceptions Report:

Report #/Lab ID#: 164981 Matrix: water  
Client: Environmental Plus, Inc. Attn: Iain Olness  
Project ID: 2001-11043  
Sample Name: LL-BM032105MW-6

### Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

### Sample Bottles & Preservation:

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.  
☐ Sample received in appropriate container(s). State of sample preservation unknown.  
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

### J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

### Comments pertaining to Data Qualifiers and QC data:

| Parameter               | Qualif | Comment                                                                                                                                            |
|-------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| m,p-Xylenes             | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Benzol[a]anthracene     | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[a]anthracene     | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[a]pyrene         | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[a]pyrene         | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[b]fluoranthene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[b]fluoranthene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[g,h,i]perylene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[g,h,i]perylene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[g,h,i]perylene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[j,k]fluoranthene | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Benzol[j,k]fluoranthene | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[j,k]fluoranthene | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Chrysene                | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Chrysene                | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Dibenz[a,h]anthracene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Dibenz[a,h]anthracene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Dibenz[a,h]anthracene   | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Indeno[1,2,3-cd]pyrene  | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Indeno[1,2,3-cd]pyrene  | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Indeno[1,2,3-cd]pyrene  | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Phenanthrene            | J      | See J-flag discussion above.                                                                                                                       |

### Notes:



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(512) 385-5886 • FAX (512) 385-7411

**Client:** Environmental Plus, Inc.

**Attn:** Iain Olness

**Address:** 2100 Ave. O

Euinee,

NM 88231

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

**Report# / Lab ID#:** 164982 **Report Date:** 04/11/05

**Project ID:** 2001-11043

**Sample Name:** LL-BM032105MW-7

**Sample Matrix:** water

**Date Received:** 03/23/2005 **Time:** 13:15

**Date Sampled:** 03/21/2005 **Time:** 13:12

## REPORT OF ANALYSIS

## QUALITY ASSURANCE DATA 1

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| A/BN Extraction-PAH          | ---    | ---   | ---              | ---   | 03/23/05 | 3520                | ---                     | ---                | ---                 | ---              | ---              |
| Extractable organics-PAH     | ---    | ---   | ---              | ---   | 03/31/05 | 610 & 8270c         | ---                     | ---                | ---                 | ---              | ---              |
| Volatile organics-8260b/BTEX | ---    | ---   | ---              | ---   | 03/24/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                      | <1     | µg/L  | 1                | <1    | 03/24/05 | 8260b               | ---                     | 2.5                | 92.6                | 86.9             | 91.2             |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 03/24/05 | 8260b               | ---                     | 4.6                | 87.9                | 88.8             | 89.7             |
| m,p-Xylenes                  | <2     | µg/L  | 2                | <2    | 03/24/05 | 8260b               | S,M                     | 4.7                | 86.6                | 86.7             | 92.6             |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 03/24/05 | 8260b               | ---                     | 2.9                | 93                  | 93.8             | 93.9             |
| Toluene                      | <1     | µg/L  | 1                | <1    | 03/24/05 | 8260b               | ---                     | 4.3                | 88.2                | 83.1             | 85               |
| Acenaphthene                 | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 3.6                | 44.4                | 112.6            | 45.8             |
| Acenaphthylene               | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 3.6                | 46.7                | 115.3            | 46.7             |
| Anthracene                   | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 4.7                | 47.8                | 111.9            | 52.6             |
| Benzo[a]anthracene           | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 37.7               | 24.4                | 106.2            | 59.6             |
| Benzo[a]pyrene               | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 42.8               | 12                  | 111.4            | 61.4             |
| Benzo[b]fluoranthene         | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 50.2               | 12.4                | 115.5            | 62.5             |
| Benzo[g,h,i]perylene         | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | S,M,P                   | 34.6               | 8.5                 | 112.9            | 57.4             |
| Benzo[j,k]fluoranthene       | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 38.5               | 13.2                | 111.4            | 63.4             |
| Chrysene                     | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 33.4               | 25.7                | 110.3            | 58.3             |
| Dibenz[a,h]anthracene        | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | S,M,P                   | 34                 | 8                   | 113.7            | 51.1             |
| Fluoranthene                 | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 15                 | 42.7                | 108              | 56.6             |
| Fluorene                     | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 4.1                | 45.2                | 110.7            | 46.6             |
| Indeno[1,2,3-cd]pyrene       | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | S,M,P                   | 39.5               | 8.7                 | 113.6            | 58.9             |

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. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

Client: Environmental Plus, Inc.  
Attn: Iain Olness

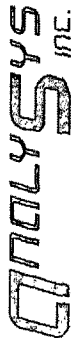
Project ID: 2001-11043  
Sample Name: LL-BM032105MW-7

Report#/Lab ID#: 164982  
Sample Matrix: water

## REPORT OF ANALYSIS-cont.

## QUALITY ASSURANCE DATA 1

| Parameter    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|--------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Naphthalene  | 0.448  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 1.1                | 41.6                | 113.6            | 42.6             |
| Phenanthrene | 0.222  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 5                  | 45.7                | 105.2            | 51.2             |
| Pyrene       | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 17.8               | 44.3                | 106              | 59.6             |



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Client: Environmental Plus, Inc.  
Attn: Iain Olness

Project ID: 2001-11043  
Sample Name: LL-BM032105MW-7

Report#/Lab ID#: 164982  
Sample Matrix: water

#### REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method      | Recovery | Recovery Limits | Data Qualifiers |
|-----------------------|-------------|----------|-----------------|-----------------|
| 2-Fluorobiphenyl      | 610 & 8270c | 37.3     | 30-110          | ---             |
| Nitrobenzene-d5       | 610 & 8270c | 36.1     | 12-110          | ---             |
| Terphenyl-d14         | 610 & 8270c | 38       | 25-110          | ---             |
| 1,2-Dichloroethane-d4 | 8260b       | 92.8     | 74-124          | ---             |
| Toluene-d8            | 8260b       | 96.6     | 89-115          | ---             |

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

## Exceptions Report:

**Report #/Lab ID#:** 164982 **Matrix:** water  
**Client:** Environmental Plus, Inc. **Attn:** Iain Olness  
**Project ID:** 2001-11043  
**Sample Name:** LL-BM032105MW-7

### Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

### Sample Bottles & Preservation:

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.  
☐ Sample received in appropriate container(s). State of sample preservation unknown.  
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

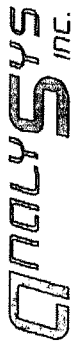
### J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

### Comments pertaining to Data Qualifiers and QC data:

| Parameter               | Qualif | Comment                                                                                                                                            |
|-------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| m,p-Xylenes             | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Benzo[a]anthracene      | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzo[a]anthracene      | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzo[a]pyrene          | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzo[a]pyrene          | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzo[b]fluoranthene    | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzo[b]fluoranthene    | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[g,h,i]perylene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[g,h,i]perylene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[g,h,i]perylene   | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Benzol[j,k]fluoranthene | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[j,k]fluoranthene | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Chrysene                | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Chrysene                | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Dibenz[a,h]anthracene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Dibenz[a,h]anthracene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Dibenz[a,h]anthracene   | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Indeno[1,2,3-cd]pyrene  | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Indeno[1,2,3-cd]pyrene  | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Indeno[1,2,3-cd]pyrene  | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |

### Notes:



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#: 164983 Report Date: 04/11/05

Project ID: 2001-11043

Sample Name: LL-BM032105MW-9

Sample Matrix: water

Date Received: 03/23/2005 Time: 13:15

Date Sampled: 03/21/2005 Time: 14:58

## REPORT OF ANALYSIS

## QUALITY ASSURANCE DATA 1

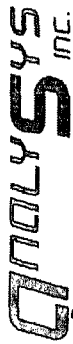
| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| A/BN Extraction-PAH          | ---    | ---   | ---              | ---   | 03/24/05 | 3520                | ---                     | ---                | ---                 | ---              | ---              |
| Extractable organics-PAH     | ---    | ---   | ---              | ---   | 04/08/05 | 610 & 8270c         | ---                     | ---                | ---                 | ---              | ---              |
| Volatile organics-8260b/BTEX | ---    | ---   | ---              | ---   | 03/30/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                      | 9.25   | µg/L  | 1                | <1    | 03/30/05 | 8260b               | ---                     | 2.5                | 92.6                | 86.9             | 91.2             |
| Ethylbenzene                 | 15.1   | µg/L  | 1                | <1    | 03/30/05 | 8260b               | ---                     | 4.6                | 87.9                | 88.8             | 89.7             |
| m,p-Xylenes                  | 9.61   | µg/L  | 2                | <2    | 03/30/05 | 8260b               | S,M                     | 4.7                | 86.6                | 86.7             | 92.6             |
| o-Xylene                     | 20.9   | µg/L  | 1                | <1    | 03/30/05 | 8260b               | ---                     | 2.9                | 93                  | 93.8             | 93.9             |
| Toluene                      | <1     | µg/L  | 1                | <1    | 03/30/05 | 8260b               | ---                     | 4.3                | 88.2                | 83.1             | 85               |
| Acenaphthene                 | <0.05  | µg/L  | 0.05             | <0.05 | 04/08/05 | 610 & 8270c         | J                       | 3.6                | 44.4                | 112.6            | 45.8             |
| Acenaphthylene               | <0.05  | µg/L  | 0.05             | <0.05 | 04/08/05 | 610 & 8270c         | ---                     | 3.6                | 46.7                | 115.3            | 46.7             |
| Anthracene                   | <0.05  | µg/L  | 0.05             | <0.05 | 04/08/05 | 610 & 8270c         | ---                     | 4.7                | 47.8                | 111.9            | 52.6             |
| Benzo[a]anthracene           | <0.05  | µg/L  | 0.05             | <0.05 | 04/08/05 | 610 & 8270c         | P                       | 37.7               | 24.4                | 106.2            | 59.6             |
| Benzo[a]pyrene               | <0.05  | µg/L  | 0.05             | <0.05 | 04/08/05 | 610 & 8270c         | P                       | 42.8               | 12                  | 111.4            | 61.4             |
| Benzo[b]fluoranthene         | <0.05  | µg/L  | 0.05             | <0.05 | 04/08/05 | 610 & 8270c         | P                       | 50.2               | 12.4                | 115.5            | 62.5             |
| Benzo[g,h,i]perylene         | <0.05  | µg/L  | 0.05             | <0.05 | 04/08/05 | 610 & 8270c         | S,M,P                   | 34.6               | 8.5                 | 112.9            | 57.4             |
| Benzo[j,k]fluoranthene       | <0.05  | µg/L  | 0.05             | <0.05 | 04/08/05 | 610 & 8270c         | P                       | 38.5               | 13.2                | 111.4            | 63.4             |
| Chrysene                     | <0.05  | µg/L  | 0.05             | <0.05 | 04/08/05 | 610 & 8270c         | P                       | 33.4               | 25.7                | 110.3            | 58.3             |
| Dibenz[a,h]anthracene        | <0.05  | µg/L  | 0.05             | <0.05 | 04/08/05 | 610 & 8270c         | S,M,P                   | 34                 | 8                   | 113.7            | 51.1             |
| Fluoranthene                 | <0.05  | µg/L  | 0.05             | <0.05 | 04/08/05 | 610 & 8270c         | ---                     | 15                 | 42.7                | 108              | 56.6             |
| Fluorene                     | 0.076  | µg/L  | 0.05             | <0.05 | 04/08/05 | 610 & 8270c         | ---                     | 4.1                | 45.2                | 110.7            | 46.6             |
| Indeno[1,2,3-cd]pyrene       | <0.05  | µg/L  | 0.05             | <0.05 | 04/08/05 | 610 & 8270c         | S,M,P                   | 39.5               | 8.7                 | 113.6            | 58.9             |

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. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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

Client: Environmental Plus, Inc.  
Attn: Iain Olness

Project ID: 2001-11043

Sample Name: LL-BM032105MW-9

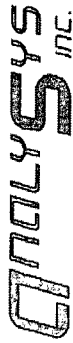
Report#/Lab ID#: 164983

Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA 1

| Parameter    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|--------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Naphthalene  | 1.26   | µg/L  | 0.05             | <0.05 | 04/08/05 | 610 & 8270c         | ---                     | 1.1                | 41.6                | 113.6            | 42.6             |
| Phenanthrene | 0.068  | µg/L  | 0.05             | <0.05 | 04/08/05 | 610 & 8270c         | ---                     | 5                  | 45.7                | 105.2            | 51.2             |
| Pyrene       | <0.05  | µg/L  | 0.05             | <0.05 | 04/08/05 | 610 & 8270c         | ---                     | 17.8               | 44.3                | 106              | 59.6             |



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Client: Environmental Plus, Inc.  
Attn: Iain Olness

Project ID: 2001-11043  
Sample Name: LL-BM032105MW-9

Report#/Lab ID#: 164983  
Sample Matrix: water

# REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method      | Recovery | Recovery Limits | Data Qualifiers |
|-----------------------|-------------|----------|-----------------|-----------------|
| 2-Fluorobiphenyl      | 610 & 8270c | 53.2     | 30-110          | ---             |
| Nitrobenzene-d5       | 610 & 8270c | 47.6     | 12-110          | ---             |
| Terphenyl-d14         | 610 & 8270c | 80.7     | 25-110          | ---             |
| 1,2-Dichloroethane-d4 | 8260b       | 88.3     | 74-124          | ---             |
| Toluene-d8            | 8260b       | 94.3     | 89-115          | ---             |

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

## Exceptions Report:

Report #/Lab ID#: 164983 Matrix: water

Client: Environmental Plus, Inc.

Project ID: 2001-11043

Sample Name: LL-BM032105MW-9

Attn: Iain Olness

### Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

### Sample Bottles & Preservation:

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

### J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

### Comments pertaining to Data Qualifiers and QC data:

| Parameter              | Qualif | Comment                                                                                                                                            |
|------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| m,p-Xylenes            | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Acenaphthene           | J      | See J-flag discussion above.                                                                                                                       |
| Benzo[a]anthracene     | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzo[a]anthracene     | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzo[a]pyrene         | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzo[a]pyrene         | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzo[b]fluoranthene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzo[b]fluoranthene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzo[g,h,i]perylene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzo[g,h,i]perylene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzo[g,h,i]perylene   | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Benzo[j,k]fluoranthene | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzo[j,k]fluoranthene | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Chrysene               | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Chrysene               | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Dibenz[a,h]anthracene  | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Dibenz[a,h]anthracene  | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Dibenz[a,h]anthracene  | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Indeno[1,2,3-cd]pyrene | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Indeno[1,2,3-cd]pyrene | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Indeno[1,2,3-cd]pyrene | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |

### Notes:



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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#:** 164984 **Report Date:** 04/11/05

**Project ID:** 2001-11043

**Sample Name:** LL-BM032105MW-2

**Sample Matrix:** water

**Date Received:** 03/23/2005 **Time:** 13:15

**Date Sampled:** 03/21/2005 **Time:** 09:12

#### REPORT OF ANALYSIS

#### QUALITY ASSURANCE DATA 1

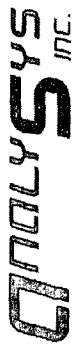
| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| A/BN Extraction-PAH          | ---    | ---   | ---              | ---   | 03/24/05 | 3520                | ---                     | ---                | ---                 | ---              | ---              |
| Extractable organics-PAH     | ---    | ---   | ---              | ---   | 03/31/05 | 610 & 8270c         | ---                     | ---                | ---                 | ---              | ---              |
| Volatile organics-8260b/BTEX | ---    | ---   | ---              | ---   | 03/24/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                      | 186    | µg/L  | 1                | <1    | 03/24/05 | 8260b               | ---                     | 2.5                | 92.6                | 86.9             | 91.2             |
| Ethylbenzene                 | 13.6   | µg/L  | 1                | <1    | 03/24/05 | 8260b               | ---                     | 4.6                | 87.9                | 88.8             | 89.7             |
| m,p-Xylenes                  | 5.41   | µg/L  | 2                | <2    | 03/24/05 | 8260b               | S,M                     | 4.7                | 86.6                | 86.7             | 92.6             |
| o-Xylene                     | 1.99   | µg/L  | 1                | <1    | 03/24/05 | 8260b               | ---                     | 2.9                | 93                  | 93.8             | 93.9             |
| Toluene                      | <1     | µg/L  | 1                | <1    | 03/24/05 | 8260b               | ---                     | 4.3                | 88.2                | 83.1             | 85               |
| Acenaphthene                 | 0.054  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 3.6                | 44.4                | 112.6            | 45.8             |
| Acenaphthylene               | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | J                       | 3.6                | 46.7                | 115.3            | 46.7             |
| Anthracene                   | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 4.7                | 47.8                | 111.9            | 52.6             |
| Benzo[a]anthracene           | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 37.7               | 24.4                | 106.2            | 59.6             |
| Benzo[a]pyrene               | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 42.8               | 12                  | 111.4            | 61.4             |
| Benzo[b]fluoranthene         | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 50.2               | 12.4                | 115.5            | 62.5             |
| Benzo[g,h,i]perylene         | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | S,M,P                   | 34.6               | 8.5                 | 112.9            | 57.4             |
| Benzo[k]fluoranthene         | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 38.5               | 13.2                | 111.4            | 63.4             |
| Chrysene                     | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 33.4               | 25.7                | 110.3            | 58.3             |
| Dibenz[a,h]anthracene        | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | S,M,P                   | 34                 | 8                   | 113.7            | 51.1             |
| Fluoranthene                 | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 15                 | 42.7                | 108              | 56.6             |
| Fluorene                     | 0.052  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 4.1                | 45.2                | 110.7            | 46.6             |
| Indeno[1,2,3-cd]pyrene       | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | S,M,P                   | 39.5               | 8.7                 | 113.6            | 58.9             |

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. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.



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

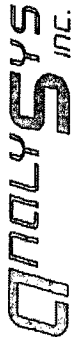
Project ID: 2001-11043  
Sample Name: LL-BM032105MW-2

Report#/Lab ID#: 164984  
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA 1

| Parameter    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|--------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Naphthalene  | 8.83   | µg/L  | 0.5              | <0.5  | 04/01/05 | 610 & 8270c         | ---                     | 1.1                | 41.6                | 113.6            | 42.6             |
| Phenanthrene | 0.325  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 5                  | 45.7                | 105.2            | 51.2             |
| Pyrene       | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 17.8               | 44.3                | 106              | 59.6             |



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Client: Environmental Plus, Inc.  
Attn: Iain Olness

Project ID: 2001-11043

Sample Name: LL-BM032105MW-2

Report#/Lab ID#: 164984

Sample Matrix: water

# REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method      | Recovery | Recovery Limits | Data Qualifiers |
|-----------------------|-------------|----------|-----------------|-----------------|
| 2-Fluorobiphenyl      | 610 & 8270c | 39.3     | 30-110          | ---             |
| Nitrobenzene-d5       | 610 & 8270c | 45.3     | 12-110          | ---             |
| Terphenyl-d14         | 610 & 8270c | 44.5     | 25-110          | ---             |
| 1,2-Dichloroethane-d4 | 8260b       | 92.5     | 74-124          | ---             |
| Toluene-d8            | 8260b       | 94.7     | 89-115          | ---             |

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

## Exceptions Report:

**Report #/Lab ID#:** 164984 **Matrix:** water  
**Client:** Environmental Plus, Inc. **Attn:** Iain Olness  
**Project ID:** 2001-11043  
**Sample Name:** LL-BM032105MW-2

### Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

### Sample Bottles & Preservation:

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

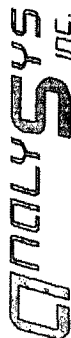
### J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

### Comments pertaining to Data Qualifiers and QC data:

| Parameter              | Qualifier | Comment                                                                                                                                            |
|------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| m,p-Xylenes            | S,M       | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Acenaphthylene         | J         | See J-flag discussion above.                                                                                                                       |
| Benzo[a]anthracene     | P         | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Benzo[a]anthracene     | P         | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Benzo[a]pyrene         | P         | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Benzo[a]pyrene         | P         | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Benzo[b]fluoranthene   | P         | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Benzo[b]fluoranthene   | P         | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Benzo[g,h,i]perylene   | P         | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Benzo[g,h,i]perylene   | P         | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Benzo[g,h,i]perylene   | S,M       | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Benzo[j,k]fluoranthene | P         | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Benzo[j,k]fluoranthene | P         | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Chrysene               | P         | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Chrysene               | P         | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Dibenz[a,h]anthracene  | P         | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Dibenz[a,h]anthracene  | P         | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Dibenz[a,h]anthracene  | S,M       | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Indeno[1,2,3-cd]pyrene | P         | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Indeno[1,2,3-cd]pyrene | P         | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Indeno[1,2,3-cd]pyrene | S,M       | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |

### Notes:



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**Client:** Environmental Plus, Inc.  
**Attn:** Iain Olness  
**Address:** 2100 Ave. O  
Emice, NM 88231  
**Phone:** (505) 394-3481 **FAX:** (505) 394-2601

**Report#**/Lab ID#: 164985 **Report Date:** 04/11/05  
**Project ID:** 2001-11043  
**Sample Name:** LL-BM032105MW-3  
**Sample Matrix:** water  
**Date Received:** 03/23/2005 **Time:** 13:15  
**Date Sampled:** 03/21/2005 **Time:** 10:21

#### REPORT OF ANALYSIS

#### QUALITY ASSURANCE DATA 1

| Parameter                | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|--------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| A/BN Extraction-PAH      | ---    | ---   | ---              | ---   | 03/24/05 | 3520                | ---                     | ---                | ---                 | ---              | ---              |
| Extractable organics-PAH | ---    | ---   | ---              | ---   | 03/31/05 | 610 & 8270c         | ---                     | ---                | ---                 | ---              | ---              |
| Aceraphthene             | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 3.6                | 44.4                | 112.6            | 45.8             |
| Acenaphthylene           | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 3.6                | 46.7                | 115.3            | 46.7             |
| Anthracene               | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 4.7                | 47.8                | 111.9            | 52.6             |
| Benzo[a]anthracene       | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 37.7               | 24.4                | 106.2            | 59.6             |
| Benzo[a]pyrene           | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 42.8               | 12                  | 111.4            | 61.4             |
| Benzo[b]fluoranthene     | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 50.2               | 12.4                | 115.5            | 62.5             |
| Benzo[g,h,i]perylene     | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | S,M,P                   | 34.6               | 8.5                 | 112.9            | 57.4             |
| Benzo[k]fluoranthene     | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 38.5               | 13.2                | 111.4            | 63.4             |
| Chrysene                 | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 33.4               | 25.7                | 110.3            | 58.3             |
| Dibenz[a,h]anthracene    | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | S,M,P                   | 34                 | 8                   | 113.7            | 51.1             |
| Fluoranthene             | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 15                 | 42.7                | 108              | 56.6             |
| Fluorene                 | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 4.1                | 45.2                | 110.7            | 46.6             |
| Indeno[1,2,3-cd]pyrene   | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | S,M,P                   | 39.5               | 8.7                 | 113.6            | 58.9             |
| Naphthalene              | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 1.1                | 41.6                | 113.6            | 42.6             |
| Phenanthrene             | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 5                  | 45.7                | 105.2            | 51.2             |
| Pyrene                   | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 17.8               | 44.3                | 106              | 59.6             |

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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.



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

Client: Environmental Plus, Inc.  
Attn: Iain Olness

Project ID: 2001-11043  
Sample Name: LL-BM032105MW-3

Report#/Lab ID#: 164985  
Sample Matrix: water

#### REPORT OF SURROGATE RECOVERY

| Surrogate Compound | Method      | Recovery | Recovery Limits | Data Qualifiers |
|--------------------|-------------|----------|-----------------|-----------------|
| 2-Fluorobiphenyl   | 610 & 8270c | 37.5     | 30-110          | ---             |
| Nitrobenzene-d5    | 610 & 8270c | 46.9     | 12-110          | ---             |
| Terphenyl-d14      | 610 & 8270c | 42.5     | 25-110          | ---             |

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

## Exceptions Report:

**Report #/Lab ID#:** 164985 **Matrix:** water  
**Client:** Environmental Plus, Inc.  
**Project ID:** 2001-11043  
**Sample Name:** LL-BM032105MW-3

**Attn:** Iain Olness

### Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GF/A and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

### Sample Bottles & Preservation:

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

### J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

### Comments pertaining to Data Qualifiers and QC data:

| Parameter              | Qualif | Comment                                                                                                                                            |
|------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Benzo[a]anthracene     | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Benzo[a]anthracene     | P      |                                                                                                                                                    |
| Benzo[a]pyrene         | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Benzo[a]pyrene         | P      |                                                                                                                                                    |
| Benzo[b]fluoranthene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Benzo[b]fluoranthene   | P      |                                                                                                                                                    |
| Benzo[g,h,i]perylene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Benzo[g,h,i]perylene   | P      |                                                                                                                                                    |
| Benzo[g,h,i]perylene   | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Benzo[j,k]fluoranthene | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Benzo[j,k]fluoranthene | P      |                                                                                                                                                    |
| Chrysene               | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Chrysene               | P      |                                                                                                                                                    |
| Dibenz[a,h]anthracene  | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Dibenz[a,h]anthracene  | P      |                                                                                                                                                    |
| Dibenz[a,h]anthracene  | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Indeno[1,2,3-cd]pyrene | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Indeno[1,2,3-cd]pyrene | P      |                                                                                                                                                    |
| Indeno[1,2,3-cd]pyrene | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |

### Notes:



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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#:** 164986 **Report Date:** 04/11/05

**Project ID:** 2001-11043

**Sample Name:** LL-BM032105MW-5

**Sample Matrix:** water

**Date Received:** 03/23/2005 **Time:** 13:15

**Date Sampled:** 03/21/2005 **Time:** 11:15

## REPORT OF ANALYSIS

## QUALITY ASSURANCE DATA 1

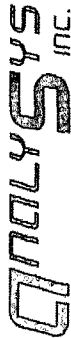
| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 03/30/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                      | 30.8   | µg/L  | 1                | <1    | 03/30/05 | 8260b               | ---                     | 2.5                | 92.6                | 86.9             | 91.2             |
| Ethylbenzene                 | 17.1   | µg/L  | 1                | <1    | 03/30/05 | 8260b               | ---                     | 4.6                | 87.9                | 88.8             | 89.7             |
| m,p-Xylenes                  | 3.67   | µg/L  | 2                | <2    | 03/30/05 | 8260b               | S,M                     | 4.7                | 86.6                | 86.7             | 92.6             |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 03/30/05 | 8260b               | ---                     | 2.9                | 93                  | 93.8             | 93.9             |
| Toluene                      | <1     | µg/L  | 1                | <1    | 03/30/05 | 8260b               | ---                     | 4.3                | 88.2                | 83.1             | 85               |

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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.  
Attn: Iain Olness

Project ID: 2001-11043  
Sample Name: LL-BM032105MW-5

Report#/Lab ID#: 164986  
Sample Matrix: water

#### REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limits | Data Qualifiers |
|-----------------------|--------|----------|-----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 92.1     | 74-124          | ---             |
| Toluene-d8            | 8260b  | 94.7     | 89-115          | ---             |

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

## Exceptions Report:

|                                  |               |                   |
|----------------------------------|---------------|-------------------|
| Report #/Lab ID#: 164986         | Matrix: water | Attn: Iain Olness |
| Client: Environmental Plus, Inc. |               |                   |
| Project ID: 2001-11043           |               |                   |
| Sample Name: LL-BM032105MW-5     |               |                   |

### Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

### Sample Bottles & Preservation:

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

### J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

### Comments pertaining to Data Qualifiers and QC data:

| Parameter   | Qualif | Comment                                                                                                                                            |
|-------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| m,p-Xylenes | S, M   | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |

### Notes:

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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#: 164987 Report Date: 04/11/05

Project ID: 2001-11043

Sample Name: LL-BM032105MW-8

Sample Matrix: water

Date Received: 03/23/2005 Time: 13:15

Date Sampled: 03/21/2005 Time: 14:03

#### REPORT OF ANALYSIS

#### QUALITY ASSURANCE DATA 1

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| A/BN Extraction-PAH          | ---    | ---   | ---              | ---   | 03/24/05 | 3520                | ---                     | ---                | ---                 | ---              | ---              |
| Extractable organics-PAH     | ---    | ---   | ---              | ---   | 03/31/05 | 610 & 8270c         | ---                     | ---                | ---                 | ---              | ---              |
| Volatile organics-8260b/BTEX | ---    | ---   | ---              | ---   | 03/24/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                      | 3410   | µg/L  | 100              | <100  | 03/30/05 | 8260b               | ---                     | 2.5                | 92.6                | 86.9             | 91.2             |
| Ethylbenzene                 | 452    | µg/L  | 10               | <10   | 03/24/05 | 8260b               | ---                     | 4.6                | 87.9                | 88.8             | 89.7             |
| m,p-Xylenes                  | 133    | µg/L  | 20               | <20   | 03/24/05 | 8260b               | S,M                     | 4.7                | 86.6                | 86.7             | 92.6             |
| o-Xylene                     | 15.2   | µg/L  | 10               | <10   | 03/24/05 | 8260b               | ---                     | 2.9                | 93                  | 93.8             | 93.9             |
| Toluene                      | <10    | µg/L  | 10               | <10   | 03/24/05 | 8260b               | ---                     | 4.3                | 88.2                | 83.1             | 85               |
| Acenaphthene                 | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 3.6                | 44.4                | 112.6            | 45.8             |
| Acenaphthylene               | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 3.6                | 46.7                | 115.3            | 46.7             |
| Anthracene                   | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 4.7                | 47.8                | 111.9            | 52.6             |
| Benzo[a]anthracene           | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 37.7               | 24.4                | 106.2            | 59.6             |
| Benzo[a]pyrene               | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 42.8               | 12                  | 111.4            | 61.4             |
| Benzo[b]fluoranthene         | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 50.2               | 12.4                | 115.5            | 62.5             |
| Benzo[g,h,i]perylene         | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | S,M,P                   | 34.6               | 8.5                 | 112.9            | 57.4             |
| Benzo[j,k]fluoranthene       | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 38.5               | 13.2                | 111.4            | 63.4             |
| Chrysene                     | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 33.4               | 25.7                | 110.3            | 58.3             |
| Dibenz[a,h]anthracene        | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | S,M,P                   | 34                 | 8                   | 113.7            | 51.1             |
| Fluoranthene                 | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 15                 | 42.7                | 108              | 56.6             |
| Fluorene                     | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | J                       | 4.1                | 45.2                | 110.7            | 46.6             |
| Indeno[1,2,3-cd]pyrene       | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | S,M,P                   | 39.5               | 8.7                 | 113.6            | 58.9             |

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. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.



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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.  
Attn: Iain Olness

Project ID: 2001-11043  
Sample Name: LL-BM032105MW-8

Report#/Lab ID#: 164987  
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA 1

| Parameter    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|--------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Naphthalene  | 5.7    | µg/L  | 0.5              | <0.5  | 04/01/05 | 610 & 8270c         | ---                     | 1.1                | 41.6                | 113.6            | 42.6             |
| Phenanthrene | 0.238  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 5                  | 45.7                | 105.2            | 51.2             |
| Pyrene       | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 17.8               | 44.3                | 106              | 59.6             |



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Client: Environmental Plus, Inc.  
Attn: Iain Olness

Project ID: 2001-11043

Sample Name: LL-BM032105MW-8

Report#/Lab ID#: 164987

Sample Matrix: water

#### REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method      | Recovery | Recovery Limits | Data Qualifiers |
|-----------------------|-------------|----------|-----------------|-----------------|
| 2-Fluorobiphenyl      | 610 & 8270c | 34.7     | 30-110          | ---             |
| Nitrobenzene-d5       | 610 & 8270c | 40.7     | 12-110          | ---             |
| Terphenyl-d14         | 610 & 8270c | 26.2     | 25-110          | ---             |
| 1,2-Dichloroethane-d4 | 8260b       | 88.8     | 74-124          | ---             |
| Toluene-d8            | 8260b       | 96.2     | 89-115          | ---             |

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

## Exceptions Report:

**Report #/Lab ID#:** 164987 **Matrix:** water  
**Client:** Environmental Plus, Inc. **Attn:** Iain Olness  
**Project ID:** 2001-11043  
**Sample Name:** LL-BM032105MW-8

### Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

### Sample Bottles & Preservation:

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

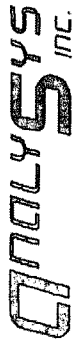
### J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

### Comments pertaining to Data Qualifiers and QC data:

| Parameter               | Qualif | Comment                                                                                                                                            |
|-------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| m,p-Xylenes             | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Benzol[a]anthracene     | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[a]pyrene         | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[b]fluoranthene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[g,h,i]perylene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[j,k]fluoranthene | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Chrysene                | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Dibenz[a,h]anthracene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Dibenz[a,h]anthracene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Dibenz[a,h]anthracene   | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Fluorene                | J      | See I-flag discussion above.                                                                                                                       |
| Indeno[1,2,3-cd]pyrene  | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Indeno[1,2,3-cd]pyrene  | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Indeno[1,2,3-cd]pyrene  | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |

### Notes:



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(512) 385-5886 • FAX (512) 385-7411

**Client:** Environmental Plus, Inc.  
**Attn:** Iain Olness  
**Address:** 2100 Ave. O  
Euinee, NM 88231  
**Phone:** (505) 394-3481 **FAX:** (505) 394-2601

**Report# / Lab ID#:** 164988 **Report Date:** 04/11/05  
**Project ID:** 2001-11043  
**Sample Name:** LL-BM032105MW-10  
**Sample Matrix:** water  
**Date Received:** 03/23/2005 **Time:** 13:15  
**Date Sampled:** 03/21/2005 **Time:** 15:45

#### REPORT OF ANALYSIS

#### QUALITY ASSURANCE DATA 1

| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| A/BN Extraction-PAH           | ---    | ---   | ---              | ---   | 03/24/05 | 3520                | ---                     | ---                | ---                 | ---              | ---              |
| Extractable organics-PAH      | ---    | ---   | ---              | ---   | 03/31/05 | 610 & 8270c         | ---                     | ---                | ---                 | ---              | ---              |
| Volatiles organics-8260b/BTEX | ---    | ---   | ---              | ---   | 03/30/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                       | 1130   | µg/L  | 10               | <10   | 03/24/05 | 8260b               | ---                     | 2.5                | 92.6                | 86.9             | 91.2             |
| Ethylbenzene                  | 138    | µg/L  | 2                | <2    | 03/30/05 | 8260b               | ---                     | 4.6                | 87.9                | 88.8             | 89.7             |
| m,p-Xylenes                   | 50     | µg/L  | 4                | <4    | 03/30/05 | 8260b               | S,M                     | 4.7                | 86.6                | 86.7             | 92.6             |
| o-Xylene                      | 4.84   | µg/L  | 2                | <2    | 03/30/05 | 8260b               | ---                     | 2.9                | 93                  | 93.8             | 93.9             |
| Toluene                       | 14.1   | µg/L  | 2                | <2    | 03/30/05 | 8260b               | ---                     | 4.3                | 88.2                | 83.1             | 85               |
| Acenaphthene                  | 0.083  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 3.6                | 44.4                | 112.6            | 45.8             |
| Acenaphthylene                | 0.051  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 3.6                | 46.7                | 115.3            | 46.7             |
| Anthracene                    | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | J                       | 4.7                | 47.8                | 111.9            | 52.6             |
| Benzo[a]anthracene            | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 37.7               | 24.4                | 106.2            | 59.6             |
| Benzo[a]pyrene                | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 42.8               | 12                  | 111.4            | 61.4             |
| Benzo[b]fluoranthene          | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 50.2               | 12.4                | 115.5            | 62.5             |
| Benzo[g,h,i]perylene          | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | S,M,P                   | 34.6               | 8.5                 | 112.9            | 57.4             |
| Benzo[j,k]fluoranthene        | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | P                       | 38.5               | 13.2                | 111.4            | 63.4             |
| Chrysene                      | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | J,P                     | 33.4               | 25.7                | 110.3            | 58.3             |
| Dibenz[a,h]anthracene         | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | S,M,P                   | 34                 | 8                   | 113.7            | 51.1             |
| Fluoranthene                  | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 15                 | 42.7                | 108              | 56.6             |
| Fluorene                      | 0.292  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 4.1                | 45.2                | 110.7            | 46.6             |
| Indeno[1,2,3-cd]pyrene        | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | S,M,P                   | 39.5               | 8.7                 | 113.6            | 58.9             |

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. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.

Client: Environmental Plus, Inc.  
Attn: Iain Olness

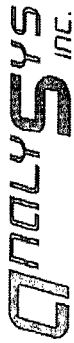
Project ID: 2001-11043  
Sample Name: LL-BM032105MW-10

Report#/Lab ID#: 164988  
Sample Matrix: water

## REPORT OF ANALYSIS-cont.

## QUALITY ASSURANCE DATA 1

| Parameter    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|--------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Naphthalene  | 7.38   | µg/L  | 0.5              | <0.5  | 04/01/05 | 610 & 8270c         | ---                     | 1.1                | 41.6                | 113.6            | 42.6             |
| Phenanthrene | 0.654  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 5                  | 45.7                | 105.2            | 51.2             |
| Pyrene       | <0.05  | µg/L  | 0.05             | <0.05 | 03/31/05 | 610 & 8270c         | ---                     | 17.8               | 44.3                | 106              | 59.6             |



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Client: Environmental Plus, Inc.  
Attn: Iain Olness

Project ID: 2001-11043  
Sample Name: LL-BM032105MW-10

Report#/Lab ID#: 164988  
Sample Matrix: water

#### REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method      | Recovery | Recovery Limits | Data Qualifiers |
|-----------------------|-------------|----------|-----------------|-----------------|
| 2-Fluorobiphenyl      | 610 & 8270c | 38.7     | 30-110          | ---             |
| Nitrobenzene-d5       | 610 & 8270c | 53.5     | 12-110          | ---             |
| Terphenyl-d14         | 610 & 8270c | 41       | 25-110          | ---             |
| 1,2-Dichloroethane-d4 | 8260b       | 97.2     | 74-124          | ---             |
| Toluene-d8            | 8260b       | 95.6     | 89-115          | ---             |

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

## Exceptions Report:

**Report #/Lab ID#:** 164988 **Matrix:** water  
**Client:** Environmental Plus, Inc. **Attn:** Iain Olness  
**Project ID:** 2001-11043  
**Sample Name:** LL-BM032105MW-10

### Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

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- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

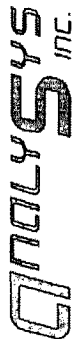
### J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

### Comments pertaining to Data Qualifiers and QC data:

| Parameter               | Qualif | Comment                                                                                                                                            |
|-------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| m,p-Xylenes             | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Anthracene              | J      | See J-flag discussion above.                                                                                                                       |
| Benzol[a]anthracene     | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[a]anthracene     | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[a]pyrene         | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[a]pyrene         | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[b]fluoranthene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[b]fluoranthene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[g,h,i]perylene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[g,h,i]perylene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[g,h,i]perylene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[g,h,i]perylene   | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Benzol[j,k]fluoranthene | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Benzol[j,k]fluoranthene | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Chrysene                | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Chrysene                | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Chrysene                | J      | See J-flag discussion above.                                                                                                                       |
| Dibenz[a,h]anthracene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Dibenz[a,h]anthracene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Dibenz[a,h]anthracene   | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Indeno[1,2,3-cd]pyrene  | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Indeno[1,2,3-cd]pyrene  | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.   |
| Indeno[1,2,3-cd]pyrene  | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |

### Notes:



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

Euinec,

NM 88231

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

Report# / Lab ID#: 164989 Report Date: 04/11/05

Project ID: 2001-11043

Sample Name: LL-BM032105MW-11

Sample Matrix: water

Date Received: 03/23/2005 Time: 13:15

Date Sampled: 03/21/2005 Time: 16:21

## REPORT OF ANALYSIS

## QUALITY ASSURANCE DATA 1

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| A/BN Extraction-PAH          | ---    | ---   | ---              | ---   | 03/24/05 | 3520                | ---                     | ---                | ---                 | ---              | ---              |
| Extractable organics-PAH     | ---    | ---   | ---              | ---   | 04/01/05 | 610 & 8270c         | ---                     | ---                | ---                 | ---              | ---              |
| Volatile organics-8260b/BTEX | ---    | ---   | ---              | ---   | 03/24/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                      | <1     | µg/L  | 1                | <1    | 03/24/05 | 8260b               | ---                     | 2.5                | 92.6                | 86.9             | 91.2             |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 03/24/05 | 8260b               | ---                     | 4.6                | 87.9                | 88.8             | 89.7             |
| m,p-Xylenes                  | <2     | µg/L  | 2                | <2    | 03/24/05 | 8260b               | S,M                     | 4.7                | 86.6                | 86.7             | 92.6             |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 03/24/05 | 8260b               | ---                     | 2.9                | 93                  | 93.8             | 93.9             |
| Toluene                      | <1     | µg/L  | 1                | <1    | 03/24/05 | 8260b               | ---                     | 4.3                | 88.2                | 83.1             | 85               |
| Acenaphthene                 | <0.05  | µg/L  | 0.05             | <0.05 | 04/01/05 | 610 & 8270c         | ---                     | 3.6                | 44.4                | 112.6            | 45.8             |
| Acenaphthylene               | <0.05  | µg/L  | 0.05             | <0.05 | 04/01/05 | 610 & 8270c         | ---                     | 3.6                | 46.7                | 115.3            | 46.7             |
| Anthracene                   | <0.05  | µg/L  | 0.05             | <0.05 | 04/01/05 | 610 & 8270c         | ---                     | 4.7                | 47.8                | 111.9            | 52.6             |
| Benzo[a]anthracene           | <0.05  | µg/L  | 0.05             | <0.05 | 04/01/05 | 610 & 8270c         | P                       | 37.7               | 24.4                | 106.2            | 59.6             |
| Benzo[a]pyrene               | <0.05  | µg/L  | 0.05             | <0.05 | 04/01/05 | 610 & 8270c         | P                       | 42.8               | 12                  | 111.4            | 61.4             |
| Benzo[b]fluoranthene         | <0.05  | µg/L  | 0.05             | <0.05 | 04/01/05 | 610 & 8270c         | P                       | 50.2               | 12.4                | 115.5            | 62.5             |
| Benzo[g,h,i]perylene         | <0.05  | µg/L  | 0.05             | <0.05 | 04/01/05 | 610 & 8270c         | S,M,P                   | 34.6               | 8.5                 | 112.9            | 57.4             |
| Benzo[j,k]fluoranthene       | <0.05  | µg/L  | 0.05             | <0.05 | 04/01/05 | 610 & 8270c         | P                       | 38.5               | 13.2                | 111.4            | 63.4             |
| Chrysene                     | <0.05  | µg/L  | 0.05             | <0.05 | 04/01/05 | 610 & 8270c         | P                       | 33.4               | 25.7                | 110.3            | 58.3             |
| Dibenz[a,h]anthracene        | <0.05  | µg/L  | 0.05             | <0.05 | 04/01/05 | 610 & 8270c         | S,M,P                   | 34                 | 8                   | 113.7            | 51.1             |
| Fluoranthene                 | <0.05  | µg/L  | 0.05             | <0.05 | 04/01/05 | 610 & 8270c         | ---                     | 15                 | 42.7                | 108              | 56.6             |
| Fluorene                     | <0.05  | µg/L  | 0.05             | <0.05 | 04/01/05 | 610 & 8270c         | ---                     | 4.1                | 45.2                | 110.7            | 46.6             |
| Indeno[1,2,3-cd]pyrene       | <0.05  | µg/L  | 0.05             | <0.05 | 04/01/05 | 610 & 8270c         | S,M,P                   | 39.5               | 8.7                 | 113.6            | 58.9             |

This analytical report is respectfully submitted by Analytix, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with Analytix, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, Analytix, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of Analytix, Inc.

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

Client: Environmental Plus, Inc.  
Attn: Iain Olness

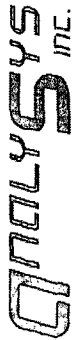
Project ID: 2001-11043  
Sample Name: LL-BM032105MW-11

Report#/Lab ID#: 164989  
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA 1

| Parameter    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|--------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Naphthalene  | <0.05  | µg/L  | 0.05             | <0.05 | 04/01/05 | 610 & 8270c         | ---                     | 1.1                | 41.6                | 113.6            | 42.6             |
| Phenanthrene | <0.05  | µg/L  | 0.05             | <0.05 | 04/01/05 | 610 & 8270c         | ---                     | 5                  | 45.7                | 105.2            | 51.2             |
| Pyrene       | <0.05  | µg/L  | 0.05             | <0.05 | 04/01/05 | 610 & 8270c         | ---                     | 17.8               | 44.3                | 106              | 59.6             |



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Client: Environmental Plus, Inc.  
Attn: Iain Olness

Project ID: 2001-11043  
Sample Name: LL-BM032105MW-11

Report#/Lab ID#: 164989  
Sample Matrix: water

#### REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method      | Recovery | Recovery Limits | Data Qualifiers |
|-----------------------|-------------|----------|-----------------|-----------------|
| 2-Fluorobiphenyl      | 610 & 8270c | 41.7     | 30-110          | ---             |
| Nitrobenzene-d5       | 610 & 8270c | 36.2     | 12-110          | ---             |
| Terphenyl-d14         | 610 & 8270c | 60.4     | 25-110          | ---             |
| 1,2-Dichloroethane-d4 | 8260b       | 91.5     | 74-124          | ---             |
| Toluene-d8            | 8260b       | 96.6     | 89-115          | ---             |

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

## Exceptions Report:

Report #/Lab ID#: 164989 Matrix: water  
Client: Environmental Plus, Inc. Attn: Iain Olness  
Project ID: 2001-11043  
Sample Name: LL-BM032105MW-11

### Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

### Sample Bottles & Preservation:

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

### J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

### Comments pertaining to Data Qualifiers and QC data:

| Parameter              | Qualif | Comment                                                                                                                                            |
|------------------------|--------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| m,p-Xylenes            | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Benzo[a]anthracene     | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Benzo[a]anthracene     | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Benzo[a]pyrene         | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Benzo[a]pyrene         | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Benzo[b]fluoranthene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Benzo[b]fluoranthene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Benzo[g,h,i]perylene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Benzo[g,h,i]perylene   | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Benzo[g,h,i]perylene   | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Benzo[j,k]fluoranthene | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Benzo[j,k]fluoranthene | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Chrysene               | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Chrysene               | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Dibenz[a,h]anthracene  | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Dibenz[a,h]anthracene  | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Dibenz[a,h]anthracene  | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |
| Indeno[1,2,3-cd]pyrene | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Indeno[1,2,3-cd]pyrene | P      | The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.  |
| Indeno[1,2,3-cd]pyrene | S,M    | MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag. |

### Notes:

12029

# Analysys Inc.

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

## Chain of Custody Form

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

|                                                                 |                   |                                          |            |                  |           |              |        |                 |          |              |        |                 |            |              |                |                             |    |              |           |                 |   |              |  |  |  |  |  |  |  |  |  |  |  |
|-----------------------------------------------------------------|-------------------|------------------------------------------|------------|------------------|-----------|--------------|--------|-----------------|----------|--------------|--------|-----------------|------------|--------------|----------------|-----------------------------|----|--------------|-----------|-----------------|---|--------------|--|--|--|--|--|--|--|--|--|--|--|
| Company Name<br>Environmental Plus, Inc.                        |                   | Bill To                                  |            | ANALYSIS REQUEST |           |              |        |                 |          |              |        |                 |            |              |                |                             |    |              |           |                 |   |              |  |  |  |  |  |  |  |  |  |  |  |
| EPI Project Manager<br>Iain Olness                              |                   | PLAINS<br>ALL-AMERICAN<br>PIPELINE, L.P. |            |                  |           |              |        |                 |          |              |        |                 |            |              |                |                             |    |              |           |                 |   |              |  |  |  |  |  |  |  |  |  |  |  |
| Mailing Address<br>P.O. BOX 1558                                |                   | Attn: ENV Accounts Payable               |            |                  |           |              |        |                 |          |              |        |                 |            |              |                |                             |    |              |           |                 |   |              |  |  |  |  |  |  |  |  |  |  |  |
| City, State, Zip<br>Eunice New Mexico 88231                     |                   | PO Box 4648                              |            |                  |           |              |        |                 |          |              |        |                 |            |              |                |                             |    |              |           |                 |   |              |  |  |  |  |  |  |  |  |  |  |  |
| EPI Phone#/Fax#<br>505-394-3481 / 505-394-2601                  |                   | Houston, TX 77210-4648                   |            |                  |           |              |        |                 |          |              |        |                 |            |              |                |                             |    |              |           |                 |   |              |  |  |  |  |  |  |  |  |  |  |  |
| Client Company<br>Plains All American                           |                   |                                          |            |                  |           |              |        |                 |          |              |        |                 |            |              |                |                             |    |              |           |                 |   |              |  |  |  |  |  |  |  |  |  |  |  |
| Facility Name<br>Livingston Line - Bob McCasland                |                   |                                          |            |                  |           |              |        |                 |          |              |        |                 |            |              |                |                             |    |              |           |                 |   |              |  |  |  |  |  |  |  |  |  |  |  |
| Project Reference<br>2001-11043                                 |                   |                                          |            |                  |           |              |        |                 |          |              |        |                 |            |              |                |                             |    |              |           |                 |   |              |  |  |  |  |  |  |  |  |  |  |  |
| EPI Sampler Name<br>Manuel Gonzales                             |                   |                                          |            |                  |           |              |        |                 |          |              |        |                 |            |              |                |                             |    |              |           |                 |   |              |  |  |  |  |  |  |  |  |  |  |  |
| LAB I.D.                                                        | SAMPLE I.D.       | MATRIX                                   |            | PRESERV.         |           | SAMPLING     |        |                 |          |              |        |                 |            |              |                |                             |    |              |           |                 |   |              |  |  |  |  |  |  |  |  |  |  |  |
|                                                                 |                   | GROUND WATER                             | WASTEWATER | SOIL             | CRUDE OIL | SLUDGE       | OTHER: | ACID/BASE       | ICE/COOL | OTHER        | DATE   | TIME            |            |              |                |                             |    |              |           |                 |   |              |  |  |  |  |  |  |  |  |  |  |  |
| 164980                                                          | 1 LL-BM032105MW-1 | G                                        | 6          | X                |           |              |        | X               | X        |              | 21-Mar | 8:07            | BTEX 8021B | TPH 8015M    | CHLORIDES (Cl) | SULFATES (SO <sub>4</sub> ) | pH | TCLP         | OTHER >>> | PAH             |   |              |  |  |  |  |  |  |  |  |  |  |  |
| 164981                                                          | 2 LL-BM032105MW-6 | G                                        | 6          | X                |           |              |        | X               | X        |              | 21-Mar | 12:37           | X          | X            |                |                             |    |              |           |                 | X |              |  |  |  |  |  |  |  |  |  |  |  |
| 164982                                                          | 3 LL-BM032105MW-7 | G                                        | 6          | X                |           |              |        | X               | X        |              | 21-Mar | 13:12           | X          | X            |                |                             |    |              |           |                 | X |              |  |  |  |  |  |  |  |  |  |  |  |
| 164983                                                          | 4 LL-BM032105MW-9 | G                                        | 6          | X                |           |              |        | X               | X        |              | 21-Mar | 14:58           | X          | X            |                |                             |    |              |           |                 | X |              |  |  |  |  |  |  |  |  |  |  |  |
| 5                                                               |                   |                                          |            |                  |           |              |        |                 |          |              |        |                 |            |              |                |                             |    |              |           |                 |   |              |  |  |  |  |  |  |  |  |  |  |  |
| 6                                                               |                   |                                          |            |                  |           |              |        |                 |          |              |        |                 |            |              |                |                             |    |              |           |                 |   |              |  |  |  |  |  |  |  |  |  |  |  |
| 7                                                               |                   |                                          |            |                  |           |              |        |                 |          |              |        |                 |            |              |                |                             |    |              |           |                 |   |              |  |  |  |  |  |  |  |  |  |  |  |
| 8                                                               |                   |                                          |            |                  |           |              |        |                 |          |              |        |                 |            |              |                |                             |    |              |           |                 |   |              |  |  |  |  |  |  |  |  |  |  |  |
| 9                                                               |                   |                                          |            |                  |           |              |        |                 |          |              |        |                 |            |              |                |                             |    |              |           |                 |   |              |  |  |  |  |  |  |  |  |  |  |  |
| 10                                                              |                   |                                          |            |                  |           |              |        |                 |          |              |        |                 |            |              |                |                             |    |              |           |                 |   |              |  |  |  |  |  |  |  |  |  |  |  |
| Sampler Relinquished by:<br><i>John Stevens</i>                 |                   | Received By:<br><i>Manuel Gonzales</i>   |            | Date<br>3/23/05  |           | Time<br>1630 |        | Date<br>3/23/05 |          | Time<br>1315 |        | Date<br>3/23/05 |            | Time<br>1315 |                | Date<br>3/23/05             |    | Time<br>1315 |           | Date<br>3/23/05 |   | Time<br>1315 |  |  |  |  |  |  |  |  |  |  |  |
| Relinquished by:                                                |                   | Sample Cool & Intact                     |            | Yes              |           | No           |        | Checked By:     |          |              |        |                 |            |              |                |                             |    |              |           |                 |   |              |  |  |  |  |  |  |  |  |  |  |  |
| Delivered by:                                                   |                   |                                          |            |                  |           |              |        |                 |          |              |        |                 |            |              |                |                             |    |              |           |                 |   |              |  |  |  |  |  |  |  |  |  |  |  |
| E-mail results to: iolness@hotmail.com and cjreynolds@paalp.com |                   |                                          |            |                  |           |              |        |                 |          |              |        |                 |            |              |                |                             |    |              |           |                 |   |              |  |  |  |  |  |  |  |  |  |  |  |

# Analysys Inc.

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

## Chain of Custody Form

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

| Company Name        |                   | Environmental Plus, Inc.        |              | Bill To      |            | ANALYSIS REQUEST |           |          |        |           |          |          |        |       |   |           |                              |                                           |    |      |           |     |  |
|---------------------|-------------------|---------------------------------|--------------|--------------|------------|------------------|-----------|----------|--------|-----------|----------|----------|--------|-------|---|-----------|------------------------------|-------------------------------------------|----|------|-----------|-----|--|
| 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       |                   | Livingston Line - Bob McCasland |              |              |            |                  |           |          |        |           |          |          |        |       |   |           |                              |                                           |    |      |           |     |  |
| Project Reference   |                   | 2001-11043                      |              |              |            |                  |           |          |        |           |          |          |        |       |   |           |                              |                                           |    |      |           |     |  |
| EPI Sampler Name    |                   | Manuel Gonzales                 |              |              |            |                  |           |          |        |           |          |          |        |       |   |           |                              |                                           |    |      |           |     |  |
| LAB I.D.            | SAMPLE I.D.       | (G)RAB OR (C)OMP.               | # CONTAINERS | MATRIX       |            |                  |           | PRESERV. |        |           |          | SAMPLING |        |       |   | TPH 8015M | CHLORIDES (Cl <sup>-</sup> ) | SULFATES (SO <sub>4</sub> <sup>2-</sup> ) | pH | TCLP | OTHER >>> | PAH |  |
| 164984              | 1 LL-BM032105MW-2 | G                               | 6            | GROUND WATER | WASTEWATER | SOIL             | CRUDE OIL | SLUDGE   | OTHER: | ACID/BASE | ICE/COOL | OTHER    | DATE   | TIME  |   |           |                              |                                           |    |      |           |     |  |
| 164985              | 2 LL-BM032105MW-3 | G                               | 2            | X            |            |                  |           |          |        | X         | X        |          | 21-Mar | 9:12  | X |           |                              |                                           |    |      | X         |     |  |
| 164986              | 3 LL-BM032105MW-5 | G                               | 6            | X            |            |                  |           |          |        | X         | X        |          | 21-Mar | 10:21 | X |           |                              |                                           |    |      | X         |     |  |
|                     | 4                 |                                 |              |              |            |                  |           |          |        | X         | X        |          | 21-Mar | 11:15 | X |           |                              |                                           |    |      | X         |     |  |
|                     | 5                 |                                 |              |              |            |                  |           |          |        |           |          |          |        |       |   |           |                              |                                           |    |      |           |     |  |
|                     | 6                 |                                 |              |              |            |                  |           |          |        |           |          |          |        |       |   |           |                              |                                           |    |      |           |     |  |
|                     | 7                 |                                 |              |              |            |                  |           |          |        |           |          |          |        |       |   |           |                              |                                           |    |      |           |     |  |
|                     | 8                 |                                 |              |              |            |                  |           |          |        |           |          |          |        |       |   |           |                              |                                           |    |      |           |     |  |
|                     | 9                 |                                 |              |              |            |                  |           |          |        |           |          |          |        |       |   |           |                              |                                           |    |      |           |     |  |
|                     | 10                |                                 |              |              |            |                  |           |          |        |           |          |          |        |       |   |           |                              |                                           |    |      |           |     |  |

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: Livingston Line - Bob McCasland

Project Reference: 2001-11043

EPI Sampler Name: Manuel Gonzales



**PLAINS**  
ALL AMERICAN  
PIPELINE, L.P.

Attn: ENV Accounts Payable

PO Box 4648

Houston, TX 77210-4648

**RECEIVED**

Date: 3/22/05  
Time: 1630

Received By: (lab staff)

Sample Cool & Intact: Yes

Checked By: [Signature]

Delivered by: [Signature]

Reinforced by: [Signature]

Sample Requisitioned: [Signature]

E-mail results to: iolness@hotmail.com and cijreynolds@paalp.com

REMARKS:

# AnalySys Inc.

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

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

Chain of Custody Form

| Company Name<br>Environmental Plus, Inc.         |                    | Bill To                                                             |              | ANALYSIS REQUEST |            |      |           |        |        |           |          |       |          |        |        |       |            |           |                |                             |    |      |           |     |
|--------------------------------------------------|--------------------|---------------------------------------------------------------------|--------------|------------------|------------|------|-----------|--------|--------|-----------|----------|-------|----------|--------|--------|-------|------------|-----------|----------------|-----------------------------|----|------|-----------|-----|
| EPI Project Manager<br>Iain Olness               |                    | PLAINS<br>ALL AMERICAN<br>PIPELINE, L.P.                            |              |                  |            |      |           |        |        |           |          |       |          |        |        |       |            |           |                |                             |    |      |           |     |
| Mailing Address<br>P.O. BOX 1558                 |                    | Attn: ENV Accounts Payable<br>PO Box 4648<br>Houston, TX 77210-4648 |              |                  |            |      |           |        |        |           |          |       |          |        |        |       |            |           |                |                             |    |      |           |     |
| City, State, Zip<br>Eunice New Mexico 88231      |                    |                                                                     |              |                  |            |      |           |        |        |           |          |       |          |        |        |       |            |           |                |                             |    |      |           |     |
| EPI Phone#/Fax#<br>505-394-3481 / 505-394-2601   |                    |                                                                     |              |                  |            |      |           |        |        |           |          |       |          |        |        |       |            |           |                |                             |    |      |           |     |
| Client Company<br>Plains All American            |                    |                                                                     |              |                  |            |      |           |        |        |           |          |       |          |        |        |       |            |           |                |                             |    |      |           |     |
| Facility Name<br>Livingston Line - Bob McCasland |                    |                                                                     |              |                  |            |      |           |        |        |           |          |       |          |        |        |       |            |           |                |                             |    |      |           |     |
| Project Reference<br>2001-11043                  |                    |                                                                     |              |                  |            |      |           |        |        |           |          |       |          |        |        |       |            |           |                |                             |    |      |           |     |
| EPI Sampler Name<br>Manuel Gonzales              |                    |                                                                     |              |                  |            |      |           |        |        |           |          |       |          |        |        |       |            |           |                |                             |    |      |           |     |
| LAB I.D.                                         | SAMPLE I.D.        | (G)RAB OR (C)OMP.                                                   | # CONTAINERS | GROUND WATER     | WASTEWATER | SOIL | CRUDE OIL | SLUDGE | OTHER: | ACID/BASE | ICE/COOL | OTHER | PRESERV. | MATRIX | DATE   | TIME  | BTEX 8021B | TPH 8015M | CHLORIDES (Cl) | SULFATES (SO <sub>4</sub> ) | PH | TCLP | OTHER >>> | PAH |
| 164987                                           | 1 LL-BM032105MW-8  | G                                                                   | 6            | X                |            |      |           |        |        | X         | X        |       |          |        | 21-Mar | 14:03 | X          |           |                |                             |    |      | X         |     |
| 164988                                           | 2 LL-BM032105MW-10 | G                                                                   | 6            | X                |            |      |           |        |        | X         | X        |       |          |        | 21-Mar | 15:45 | X          |           |                |                             |    |      | X         |     |
| 164989                                           | 3 LL-BM032105MW-11 | G                                                                   | 6            | X                |            |      |           |        |        | X         | X        |       |          |        | 21-Mar | 16:21 | X          |           |                |                             |    |      | X         |     |
| 4                                                |                    |                                                                     |              |                  |            |      |           |        |        |           |          |       |          |        |        |       |            |           |                |                             |    |      |           |     |
| 5                                                |                    |                                                                     |              |                  |            |      |           |        |        |           |          |       |          |        |        |       |            |           |                |                             |    |      |           |     |
| 6                                                |                    |                                                                     |              |                  |            |      |           |        |        |           |          |       |          |        |        |       |            |           |                |                             |    |      |           |     |
| 7                                                |                    |                                                                     |              |                  |            |      |           |        |        |           |          |       |          |        |        |       |            |           |                |                             |    |      |           |     |
| 8                                                |                    |                                                                     |              |                  |            |      |           |        |        |           |          |       |          |        |        |       |            |           |                |                             |    |      |           |     |
| 9                                                |                    |                                                                     |              |                  |            |      |           |        |        |           |          |       |          |        |        |       |            |           |                |                             |    |      |           |     |
| 10                                               |                    |                                                                     |              |                  |            |      |           |        |        |           |          |       |          |        |        |       |            |           |                |                             |    |      |           |     |

|                       |                      |                          |
|-----------------------|----------------------|--------------------------|
| Sampler Relinquished: | Date<br>3/23/05      | Received By:             |
| Relinquished by:      | Time<br>14:30        | Received By: (lab staff) |
|                       | Date<br>3/23/05      | Time<br>13:15            |
| Delivered by:         | Sample Cool & Intact | Checked By:              |
|                       | Yes No               |                          |

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

REMARKS:

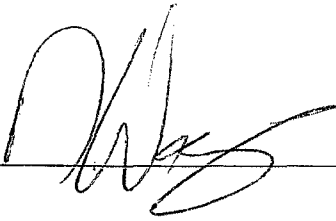
## Sample Analysis Case Narrative

Client: Environmental Plus, Inc. Project ID: 2003-11043

Attn: Iain Olness

for Sample #'s: 164980 thru 164989

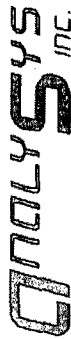
Analyzed by AnalySys, Inc.

Final Review Date: 4/20/2005 By:  (D. Wagner)

### Case Narrative:

The recovery of m,p-Xylenes in the Matrix Spikes (MS and/or MSD) for the analytical batch that contained sample #'s 164980 thru 164984 and 164986 thru 164989 was outside normal laboratory acceptance criteria due to matrix effects in the randomly selected spiked sample. The Laboratory Control Sample (LCS) run with this batch met recovery criteria for m,p-Xylenes indicating the analytical method was operating correctly and in control. When viewed within the context of the passing LCS data, this deviation in spike recovery should have minimal impact on data usability.

The spike recoveries and/or precisions of several PAH compounds for the analytical batch that contained sample #'s 164980 thru 164985 and 164987 thru 164989 were outside normal laboratory acceptance criteria due to matrix effects in the randomly selected spiked sample. The Laboratory Control Sample (LCS) run with this batch met recovery criteria for each compound indicating the analytical method was operating correctly and in control. When viewed within the context of the passing LCS data, these deviations in spike recoveries and precisions should have minimal impact on data usability.



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#:** 167329 **Report Date:** 05/24/05  
**Project ID:** 2001-11043  
**Sample Name:** MW-2  
**Sample Matrix:** water  
**Date Received:** 05/19/2005 **Time:** 07:30  
**Date Sampled:** 05/17/2005 **Time:** 08:36

#### REPORT OF ANALYSIS

| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Volatiles organics-8260b/BTEX | ---    |       | ---              |       | 05/23/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                       | 342    | µg/L  | 10               | <10   | 05/24/05 | 8260b               | ---                     | 1                  | 91.4                | 88.7             | 86.9             |
| Ethylbenzene                  | 28.1   | µg/L  | 1                | <1    | 05/23/05 | 8260b               | ---                     | 6.9                | 115.5               | 110.3            | 115.9            |
| m,p-Xylenes                   | 33.4   | µg/L  | 2                | <2    | 05/23/05 | 8260b               | ---                     | 7                  | 117.8               | 114              | 117.9            |
| o-Xylene                      | 14.7   | µg/L  | 1                | <1    | 05/23/05 | 8260b               | ---                     | 6.2                | 115.4               | 112.3            | 115.2            |
| Toluene                       | 1      | µg/L  | 1                | <1    | 05/23/05 | 8260b               | ---                     | 5                  | 98.8                | 97.6             | 96.7             |

#### QUALITY ASSURANCE DATA<sup>1</sup>

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. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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.



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

Client: Environmental Plus, Inc.  
Attn: Iain Olness

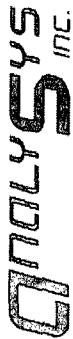
Project ID: 2001-11043  
Sample Name: MW-2

Report#/Lab ID#: 167329  
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limits | Data Qualifiers |
|-----------------------|--------|----------|-----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 108      | 74-124          | ---             |
| Toluene-d8            | 8260b  | 112      | 89-115          | ---             |

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



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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#:** 167330 **Report Date:** 05/24/05

**Project ID:** 2001-11043

**Sample Name:** MW-5

**Sample Matrix:** water

**Date Received:** 05/19/2005 **Time:** 07:30

**Date Sampled:** 05/17/2005 **Time:** 09:20

#### REPORT OF ANALYSIS

| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Volatiles organics-8260b/BTEX | ---    |       | ---              |       | 05/23/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                       | 9.66   | µg/L  | 1                | <1    | 05/23/05 | 8260b               | ---                     | 1                  | 91.4                | 88.7             | 86.9             |
| Ethylbenzene                  | <1     | µg/L  | 1                | <1    | 05/23/05 | 8260b               | J                       | 6.9                | 115.5               | 110.3            | 115.9            |
| m,p-Xylenes                   | <2     | µg/L  | 2                | <2    | 05/23/05 | 8260b               | ---                     | 7                  | 117.8               | 114              | 117.9            |
| o-Xylene                      | <1     | µg/L  | 1                | <1    | 05/23/05 | 8260b               | ---                     | 6.2                | 115.4               | 112.3            | 115.2            |
| Toluene                       | <1     | µg/L  | 1                | <1    | 05/23/05 | 8260b               | ---                     | 5                  | 98.8                | 97.6             | 96.7             |

#### QUALITY ASSURANCE DATA<sup>1</sup>

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. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Date 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.  
Attn: Iain Olness

Project ID: 2001-11043  
Sample Name: MW-5

Report#/Lab ID#: 167330  
Sample Matrix: water

#### REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limits | Data Qualifiers |
|-----------------------|--------|----------|-----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 116      | 74-124          | ---             |
| Toluene-d8            | 8260b  | 107      | 89-115          | ---             |

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

Exceptions Report:

|                                  |               |                   |
|----------------------------------|---------------|-------------------|
| Report #/Lab ID#: 167330         | Matrix: water | Attn: Iain Olness |
| Client: Environmental Plus, Inc. |               |                   |
| Project ID: 2001-11043           |               |                   |
| Sample Name: MW-5                |               |                   |

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

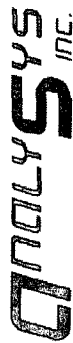
| Parameter    | Qualif | Comment                      |
|--------------|--------|------------------------------|
| Ethylbenzene | J      | See J-flag discussion above. |

Notes:

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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  
Euinee, NM 88231

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

**Report#/Lab ID#:** 167331 **Report Date:** 05/24/05

**Project ID:** 2001-11043

**Sample Name:** MW-6

**Sample Matrix:** water

**Date Received:** 05/19/2005 **Time:** 07:30

**Date Sampled:** 05/17/2005 **Time:** 09:39

#### REPORT OF ANALYSIS

#### QUALITY ASSURANCE DATA 1

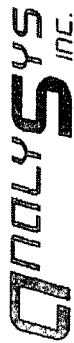
| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 05/23/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                      | <1     | µg/L  | 1                | <1    | 05/23/05 | 8260b               | ---                     | 1                  | 91.4                | 88.7             | 86.9             |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 05/23/05 | 8260b               | ---                     | 6.9                | 115.5               | 110.3            | 115.9            |
| m,p-Xylenes                  | <2     | µg/L  | 2                | <2    | 05/23/05 | 8260b               | ---                     | 7                  | 117.8               | 114              | 117.9            |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 05/23/05 | 8260b               | ---                     | 6.2                | 115.4               | 112.3            | 115.2            |
| Toluene                      | <1     | µg/L  | 1                | <1    | 05/23/05 | 8260b               | ---                     | 5                  | 98.8                | 97.6             | 96.7             |

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Respectfully Submitted,

Dale Wagner

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Client: Environmental Plus, Inc.  
Attn: Iain Olness

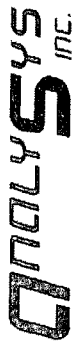
Project ID: 2001-11043  
Sample Name: MW-6

Report#/Lab ID#: 167331  
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  | 112      | 89-115          | ---             |

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



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#:** 167332

**Project ID:** 2001-11043

**Sample Name:** MW-7

**Sample Matrix:** water

**Date Received:** 05/19/2005 **Time:** 07:30

**Date Sampled:** 05/17/2005 **Time:** 08:50

**Report Date:** 05/24/05

## REPORT OF ANALYSIS

## QUALITY ASSURANCE DATA 1

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 05/23/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                      | <1     | µg/L  | 1                | <1    | 05/23/05 | 8260b               | ---                     | 1                  | 91.4                | 88.7             | 86.9             |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 05/23/05 | 8260b               | ---                     | 6.9                | 115.5               | 110.3            | 115.9            |
| m,p-Xylenes                  | <2     | µg/L  | 2                | <2    | 05/23/05 | 8260b               | ---                     | 7                  | 117.8               | 114              | 117.9            |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 05/23/05 | 8260b               | ---                     | 6.2                | 115.4               | 112.3            | 115.2            |
| Toluene                      | <1     | µg/L  | 1                | <1    | 05/23/05 | 8260b               | ---                     | 5                  | 98.8                | 97.6             | 96.7             |

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Respectfully Submitted,

Dale Wagner

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.  
Attn: Iain Olness

Project ID: 2001-11043  
Sample Name: MW-7

Report#/Lab ID#: 167332  
Sample Matrix: water

#### REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limits | Data Qualifiers |
|-----------------------|--------|----------|-----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 105      | 74-124          | ---             |
| Toluene-d8            | 8260b  | 109      | 89-115          | ---             |

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#:** 167333 **Report Date:** 05/24/05  
**Project ID:** 2001-11043  
**Sample Name:** MW-8  
**Sample Matrix:** water  
**Date Received:** 05/19/2005 **Time:** 07:30  
**Date Sampled:** 05/17/2005 **Time:** 08:15

#### REPORT OF ANALYSIS

| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|-------|---------------------|------------------|------------------|
| Volatiles organics-8260b/BTEX | ---    |       | ---              |       | 05/24/05 | 8260b(5030/5035)    | ---                     | ---   | ---                 | ---              | ---              |
| Benzene                       | 2290   | µg/L  | 100              | <100  | 05/24/05 | 8260b               | ---                     | 1     | 91.4                | 88.7             | 86.9             |
| Ethylbenzene                  | 115    | µg/L  | 1                | <1    | 05/24/05 | 8260b               | ---                     | 6.9   | 115.5               | 110.3            | 115.9            |
| m,p-Xylenes                   | 32.3   | µg/L  | 2                | <2    | 05/24/05 | 8260b               | ---                     | 7     | 117.8               | 114              | 117.9            |
| o-Xylene                      | 5.68   | µg/L  | 1                | <1    | 05/24/05 | 8260b               | ---                     | 6.2   | 115.4               | 112.3            | 115.2            |
| Toluene                       | <1     | µg/L  | 1                | <1    | 05/24/05 | 8260b               | J                       | 5     | 98.8                | 97.6             | 96.7             |

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Respectfully Submitted,

Dale Wagner

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#### QUALITY ASSURANCE DATA 1



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

**Client:** Environmental Plus, Inc.  
**Attn:** Iain Olness

**Project ID:** 2001-11043  
**Sample Name:** MW-8

**Report#/Lab ID#:** 167333  
**Sample Matrix:** water

#### REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limits | Data Qualifiers |
|-----------------------|--------|----------|-----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 112      | 74-124          | ---             |
| Toluene-d8            | 8260b  | 103      | 89-115          | ---             |

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

Exceptions Report:

|                                  |               |                   |
|----------------------------------|---------------|-------------------|
| Report #/Lab ID#: 167333         | Matrix: water | Attn: Iain Olness |
| Client: Environmental Plus, Inc. |               |                   |
| Project ID: 2001-11043           |               |                   |
| Sample Name: MW-8                |               |                   |

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

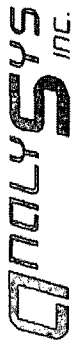
| Parameter | Qualif | Comment                      |
|-----------|--------|------------------------------|
| Toluene   | J      | See J-flag discussion above. |

Notes:

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-----

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(512) 385-5886 • FAX (512) 385-7411

**Client:** Environmental Plus, Inc.

**Attn:** Iain Olness

**Address:** 2100 Ave. O

Euinec,

NM 88231

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

**Report#/Lab ID#:** 167334

**Report Date:** 05/24/05

**Project ID:** 2001-11043

**Sample Name:** MW-9

**Sample Matrix:** water

**Date Received:** 05/19/2005 **Time:** 07:30

**Date Sampled:** 05/17/2005 **Time:** 10:00

## REPORT OF ANALYSIS

## QUALITY ASSURANCE DATA 1

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 05/24/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                      | 4.98   | µg/L  | 1                | <1    | 05/24/05 | 8260b               | ---                     | 1                  | 91.4                | 88.7             | 86.9             |
| Ethylbenzene                 | 14.8   | µg/L  | 1                | <1    | 05/24/05 | 8260b               | ---                     | 6.9                | 115.5               | 110.3            | 115.9            |
| m,p-Xylenes                  | 14.5   | µg/L  | 2                | <2    | 05/24/05 | 8260b               | ---                     | 7                  | 117.8               | 114              | 117.9            |
| o-Xylene                     | 31.1   | µg/L  | 1                | <1    | 05/24/05 | 8260b               | ---                     | 6.2                | 115.4               | 112.3            | 115.2            |
| Toluene                      | <1     | µg/L  | 1                | <1    | 05/24/05 | 8260b               | ---                     | 5                  | 98.8                | 97.6             | 96.7             |

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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.  
Attn: Iain Olness

Project ID: 2001-11043  
Sample Name: MW-9

Report#/Lab ID#: 167334  
Sample Matrix: water

# REPORT OF SURROGATE RECOVERY

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

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



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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#:** 167335

**Report Date:** 05/24/05

**Project ID:** 2001-11043

**Sample Name:** MW-10

**Sample Matrix:** water

**Date Received:** 05/19/2005 **Time:** 07:30

**Date Sampled:** 05/17/2005 **Time:** 10:51

#### REPORT OF ANALYSIS

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 05/24/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                      | 2170   | µg/L  | 100              | <100  | 05/24/05 | 8260b               | ---                     | 1                  | 91.4                | 88.7             | 86.9             |
| Ethylbenzene                 | 194    | µg/L  | 100              | <100  | 05/24/05 | 8260b               | ---                     | 6.9                | 115.5               | 110.3            | 115.9            |
| m,p-Xylenes                  | 147    | µg/L  | 2                | <2    | 05/24/05 | 8260b               | ---                     | 7                  | 117.8               | 114              | 117.9            |
| o-Xylene                     | 7.55   | µg/L  | 1                | <1    | 05/24/05 | 8260b               | ---                     | 6.2                | 115.4               | 112.3            | 115.2            |
| Toluene                      | 14.4   | µg/L  | 1                | <1    | 05/24/05 | 8260b               | ---                     | 5                  | 98.8                | 97.6             | 96.7             |

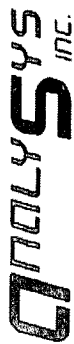
#### QUALITY ASSURANCE DATA<sup>1</sup>

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Respectfully Submitted,

Dale Wagner

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.  
Attn: Iain Olness

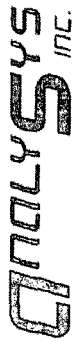
Project ID: 2001-11043  
Sample Name: MW-10

Report#/Lab ID#: 167335  
Sample Matrix: water

#### REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limits | Data Qualifiers |
|-----------------------|--------|----------|-----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 113      | 74-124          | ---             |
| Toluene-d8            | 8260b  | 110      | 89-115          | ---             |

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



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#:** 167336 **Report Date:** 05/24/05

**Project ID:** 2001-11043

**Sample Name:** MW-11

**Sample Matrix:** water

**Date Received:** 05/19/2005 **Time:** 07:30

**Date Sampled:** 05/17/2005 **Time:** 10:34

#### REPORT OF ANALYSIS

#### QUALITY ASSURANCE DATA 1

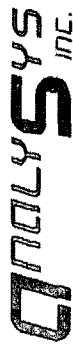
| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 05/23/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                      | <1     | µg/L  | 1                | <1    | 05/23/05 | 8260b               | ---                     | 1                  | 91.4                | 88.7             | 86.9             |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 05/23/05 | 8260b               | ---                     | 6.9                | 115.5               | 110.3            | 115.9            |
| m,p-Xylenes                  | <2     | µg/L  | 2                | <2    | 05/23/05 | 8260b               | ---                     | 7                  | 117.8               | 114              | 117.9            |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 05/23/05 | 8260b               | ---                     | 6.2                | 115.4               | 112.3            | 115.2            |
| Toluene                      | <1     | µg/L  | 1                | <1    | 05/23/05 | 8260b               | ---                     | 5                  | 98.8                | 97.6             | 96.7             |

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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.  
Attn: Iain Olness

Project ID: 2001-11043  
Sample Name: MW-11

Report#/Lab ID#: 167336  
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  | 106      | 89-115          | ---             |

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

# AnalySys Inc.

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

Chain of Custody Form

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       | Livingston Line - Bob McCasland |                          |  |
| Project Reference   | 2001-11043                      |                          |  |
| EPI Sampler Name    | Manuel Gonzales                 |                          |  |



**PLAINS**  
ALL AMERICAN  
PIPELINE, L.P.

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

| LAB I.D. | SAMPLE I.D. | (G)RAB OR (C)OMP. | MATRIX       |            |      |           |        |        |           |          | PRESERV. |      |      | SAMPLING |       | BTEX 8021B | TPH 8015M | CHLORIDES (Cl) | SULFATES (SO <sub>4</sub> ) | PH | TCLP | OTHER >>> | PAH |  |  |  |  |
|----------|-------------|-------------------|--------------|------------|------|-----------|--------|--------|-----------|----------|----------|------|------|----------|-------|------------|-----------|----------------|-----------------------------|----|------|-----------|-----|--|--|--|--|
|          |             |                   | GROUND WATER | WASTEWATER | SOIL | CRUDE OIL | SLUDGE | OTHER: | ACID/BASE | ICE/COOL | OTHER    | DATE | TIME |          |       |            |           |                |                             |    |      |           |     |  |  |  |  |
| 167329   | 1 MW-2 ✓    | G                 | 4            | X          |      |           |        |        |           | X        | X        | X    |      | 17-May   | 8:36  | X          |           |                |                             |    |      |           |     |  |  |  |  |
| 167330   | 2 MW-5 ✓    | G                 | 4            | X          |      |           |        |        |           | X        | X        | X    |      | 17-May   | 9:20  | X          |           |                |                             |    |      |           |     |  |  |  |  |
| 167331   | 3 MW-6 ✓    | G                 | 4            | X          |      |           |        |        |           | X        | X        | X    |      | 17-May   | 9:39  | X          |           |                |                             |    |      |           |     |  |  |  |  |
| 167332   | 4 MW-7 ✓    | G                 | 4            | X          |      |           |        |        |           | X        | X        | X    |      | 17-May   | 8:50  | X          |           |                |                             |    |      |           |     |  |  |  |  |
| 167333   | 5 MW-8 ✓    | G                 | 4            | X          |      |           |        |        |           | X        | X        | X    |      | 17-May   | 8:15  | X          |           |                |                             |    |      |           |     |  |  |  |  |
| 167334   | 6 MW-9 ✓    | G                 | 4            | X          |      |           |        |        |           | X        | X        | X    |      | 17-May   | 10:00 | X          |           |                |                             |    |      |           |     |  |  |  |  |
| 167335   | 7 MW-10 ✓   | G                 | 4            | X          |      |           |        |        |           | X        | X        | X    |      | 17-May   | 10:51 | X          |           |                |                             |    |      |           |     |  |  |  |  |
| 167336   | 8 MW-11 ✓   | G                 | 4            | X          |      |           |        |        |           | X        | X        | X    |      | 17-May   | 10:34 | X          |           |                |                             |    |      |           |     |  |  |  |  |
|          | 9           |                   |              |            |      |           |        |        |           |          |          |      |      |          |       |            |           |                |                             |    |      |           |     |  |  |  |  |
|          | 10          |                   |              |            |      |           |        |        |           |          |          |      |      |          |       |            |           |                |                             |    |      |           |     |  |  |  |  |

|                           |  |                      |  |                         |  |
|---------------------------|--|----------------------|--|-------------------------|--|
| Sampler Requisitioned by: |  | Date: 5/18/05        |  | Received By:            |  |
| Iain Olness               |  | Time: 1:00           |  | AS/                     |  |
| Requisitioned by:         |  | Date: 5/19/05        |  | Received By: (by staff) |  |
|                           |  | Time: 8:30           |  | AS/                     |  |
| Delivered by:             |  | Sample Cool & Intact |  | Checked By:             |  |
|                           |  | Yes No               |  |                         |  |

E-mail results to: iolness@hotmail.com and cijreynolds@paalp.com

REMARKS:

T: 730



**Client:** Environmental Plus, Inc.  
**Attn:** Iain Olness  
**Address:** 2100 Ave. O  
Eunice, NM 88231  
**Phone:** (505) 394-3481 **FAX:** (505) 394-2601

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

**Report#/Lab ID#:** 169983 **Report Date:** 08/29/05  
**Project ID:** 2001-11043  
**Sample Name:** MW-1  
**Sample Matrix:** water  
**Date Received:** 08/18/2005 **Time:** 16:00  
**Date Sampled:** 08/15/2005 **Time:** 09:30

**REPORT OF ANALYSIS**

**QUALITY ASSURANCE DATA 1**

| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Volatiles organics-8260b/BTEX | ---    |       | ---              |       | 08/23/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                       | <1     | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 5.5                | 93.3                | 87.3             | 89.6             |
| Ethylbenzene                  | <1     | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 2                  | 103                 | 98.3             | 101              |
| m,p-Xylenes                   | <2     | µg/L  | 2                | <2    | 08/23/05 | 8260b               | ---                     | 1.6                | 104.5               | 100.3            | 103.2            |
| o-Xylene                      | <1     | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 2.5                | 109.3               | 91.6             | 106.7            |
| Toluene                       | <1     | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 6.1                | 101.4               | 94.7             | 96.9             |

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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.

|                                  |                        |                         |
|----------------------------------|------------------------|-------------------------|
| Client: Environmental Plus, Inc. | Project ID: 2001-11043 | Report#/Lab ID#: 169983 |
| Attn: Iain Olness                | Sample Name: MW-1      | Sample Matrix: water    |

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method | Recovery | Recovery Limits | Data Qualifiers |
|-----------------------|--------|----------|-----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 94.8     | 70-130          | ---             |
| Toluene-d8            | 8260b  | 105      | 80-127          | ---             |

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

**Client:** Environmental Plus, Inc.  
**Attn:** Iam Ohness  
**Address:** 2100 Ave. O  
 Eunice, NM 88231

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

**REPORT OF ANALYSIS**

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 08/23/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                      | 145    | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 5.5                | 93.3                | 87.3             | 89.6             |
| Ethylbenzene                 | 18.7   | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 2                  | 103                 | 98.3             | 101              |
| m,p-Xylenes                  | 20     | µg/L  | 2                | <2    | 08/23/05 | 8260b               | ---                     | 1.6                | 104.5               | 100.3            | 103.2            |
| o-Xylene                     | 8.49   | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 2.5                | 109.3               | 91.6             | 106.7            |
| Toluene                      | 7.18   | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 6.1                | 101.4               | 94.7             | 96.9             |

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Respectfully Submitted,

  
 Dale Wagner

**Report# / Lab ID#:** 169984 **Report Date:** 08/29/05  
**Project ID:** 2001-11043  
**Sample Name:** MW-2  
**Sample Matrix:** water  
**Date Received:** 08/18/2005 **Time:** 16:00  
**Date Sampled:** 08/15/2005 **Time:** 10:00

**QUALITY ASSURANCE DATA 1**

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 08/23/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                      | 145    | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 5.5                | 93.3                | 87.3             | 89.6             |
| Ethylbenzene                 | 18.7   | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 2                  | 103                 | 98.3             | 101              |
| m,p-Xylenes                  | 20     | µg/L  | 2                | <2    | 08/23/05 | 8260b               | ---                     | 1.6                | 104.5               | 100.3            | 103.2            |
| o-Xylene                     | 8.49   | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 2.5                | 109.3               | 91.6             | 106.7            |
| Toluene                      | 7.18   | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 6.1                | 101.4               | 94.7             | 96.9             |

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

Client: Environmental Plus, Inc.  
Attn: Iain Olness

Project ID: 2001-11043  
Sample Name: MW-2

Report#/Lab ID#: 169984  
Sample Matrix: water

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method | Recovery | Recovery Limits | Data Qualifiers |
|-----------------------|--------|----------|-----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 90.6     | 70-130          | ---             |
| Toluene-d8            | 8260b  | 104      | 80-127          | ---             |

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



**Client:** Environmental Plus, Inc.  
**Attn:** Iain Olness  
**Address:** 2100 Ave. O  
Euinee, NM 88231  
**Phone:** (505) 394-3481 **FAX:** (505) 394-2601

**REPORT OF ANALYSIS**

| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Volatiles organics-8260b/BTEX | ---    |       | ---              |       | 08/23/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                       | <1     | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 5.5                | 93.3                | 87.3             | 89.6             |
| Ethylbenzene                  | <1     | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 2                  | 103                 | 98.3             | 101              |
| m,p-Xylenes                   | <2     | µg/L  | 2                | <2    | 08/23/05 | 8260b               | ---                     | 1.6                | 104.5               | 100.3            | 103.2            |
| o-Xylene                      | <1     | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 2.5                | 109.3               | 91.6             | 106.7            |
| Toluene                       | <1     | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 6.1                | 101.4               | 94.7             | 96.9             |

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Respectfully Submitted,

Dale Wagner

**Report#**/Lab ID#: 169985 **Report Date:** 08/29/05  
**Project ID:** 2001-11043  
**Sample Name:** MW-3  
**Sample Matrix:** water  
**Date Received:** 08/18/2005 **Time:** 16:00  
**Date Sampled:** 08/15/2005 **Time:** 09:00

**QUALITY ASSURANCE DATA 1**

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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Client: Environmental Plus, Inc.  
Attn: Iain Olness

Project ID: 2001-11043  
Sample Name: MW-3

Report#/Lab ID#: 169985  
Sample Matrix: water

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method | Recovery | Recovery Limits | Data Qualifiers |
|-----------------------|--------|----------|-----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 96.7     | 70-130          | ---             |
| Toluene-d8            | 8260b  | 104      | 80-127          | ---             |

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

**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#: 169986 **Report Date:** 08/29/05  
**Project ID:** 2001-11043  
**Sample Name:** MW-5  
**Sample Matrix:** water  
**Date Received:** 08/18/2005 **Time:** 16:00  
**Date Sampled:** 08/15/2005 **Time:** 12:30

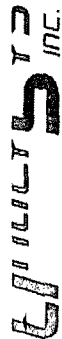
**REPORT OF ANALYSIS**

**QUALITY ASSURANCE DATA 1**

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 08/23/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                      | 13.8   | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 5.5                | 93.3                | 87.3             | 89.6             |
| Ethylbenzene                 | 4.38   | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 2                  | 103                 | 98.3             | 101              |
| m,p-Xylenes                  | <2     | µg/L  | 2                | <2    | 08/23/05 | 8260b               | J                       | 1.6                | 104.5               | 100.3            | 103.2            |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 08/23/05 | 8260b               | J                       | 2.5                | 109.3               | 91.6             | 106.7            |
| Toluene                      | 1.73   | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 6.1                | 101.4               | 94.7             | 96.9             |

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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.



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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.  
Attn: Iain Olness

Project ID: 2001-11043  
Sample Name: MW-5

Report#/Lab ID#: 169986  
Sample Matrix: water

# REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limits | Data Qualifiers |
|-----------------------|--------|----------|-----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 92.8     | 70-130          | ---             |
| Toluene-d8            | 8260b  | 107      | 80-127          | ---             |

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

**Report #/Lab ID#:** 169986 **Matrix:** water  
**Client:** Environmental Plus, Inc. **Attn:** Iain Olness  
**Project ID:** 2001-11043  
**Sample Name:** MW-5

**Sample Temperature/Condition:** <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <=6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

**Sample Bottles & Preservation:**

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.  
☐ Sample received in appropriate container(s). State of sample preservation unknown.  
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

**J flag Discussion:**

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

**Comments pertaining to Data Qualifiers and QC data:**

| Parameter   | Qualif | Comment                      |
|-------------|--------|------------------------------|
| m,p-Xylenes | J      | See J-flag discussion above. |
| o-Xylene    | J      | See J-flag discussion above. |

**Notes:**

**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#:** 169987 **Report Date:** 08/29/05  
**Project ID:** 2001-11043  
**Sample Name:** MW-6  
**Sample Matrix:** water  
**Date Received:** 08/18/2005 **Time:** 16:00  
**Date Sampled:** 08/15/2005 **Time:** 08:30

**REPORT OF ANALYSIS**

**QUALITY ASSURANCE DATA 1**

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 08/23/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                      | <1     | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 5.5                | 93.3                | 87.3             | 89.6             |
| Ethylbenzene                 | <1     | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 2                  | 103                 | 98.3             | 101              |
| m,p-Xylenes                  | <2     | µg/L  | 2                | <2    | 08/23/05 | 8260b               | ---                     | 1.6                | 104.5               | 100.3            | 103.2            |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 2.5                | 109.3               | 91.6             | 106.7            |
| Toluene                      | <1     | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 6.1                | 101.4               | 94.7             | 96.9             |

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Respectfully Submitted,

  
Dale Wagner

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Client: Environmental Plus, Inc.  
Attn: Iain Olness

Project ID: 2001-11043  
Sample Name: MW-6

Report#/Lab ID#: 169987  
Sample Matrix: water

# REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limits | Data Qualifiers |
|-----------------------|--------|----------|-----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 94.7     | 70-130          | ---             |
| Toluene-d8            | 8260b  | 107      | 80-127          | ---             |

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

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#:** 169988 **Report Date:** 08/29/05  
**Project ID:** 2001-11043  
**Sample Name:** MW-7  
**Sample Matrix:** water  
**Date Received:** 08/18/2005 **Time:** 16:00  
**Date Sampled:** 08/15/2005 **Time:** 10:30

**REPORT OF ANALYSIS**

**QUALITY ASSURANCE DATA 1**

| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Volatiles organics-8260b/BTEX | ---    |       | ---              |       | 08/23/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                       | <1     | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 5.5                | 93.3                | 87.3             | 89.6             |
| Ethylbenzene                  | <1     | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 2                  | 103                 | 98.3             | 101              |
| m,p-Xylenes                   | <2     | µg/L  | 2                | <2    | 08/23/05 | 8260b               | ---                     | 1.6                | 104.5               | 100.3            | 103.2            |
| o-Xylene                      | <1     | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 2.5                | 109.3               | 91.6             | 106.7            |
| Toluene                       | <1     | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 6.1                | 101.4               | 94.7             | 96.9             |

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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.

**Client:** Environmental Plus, Inc.  
**Attn:** Iain Olness

**Project ID:** 2001-11043  
**Sample Name:** MW-7

**Report#/Lab ID#:** 169988  
**Sample Matrix:** water

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method | Recovery | Recovery Limits | Data Qualifiers |
|-----------------------|--------|----------|-----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 92.5     | 70-130          | ---             |
| Toluene-d8            | 8260b  | 108      | 80-127          | ---             |

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

**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#:** 169989 **Report Date:** 08/29/05  
**Project ID:** 2001-11043  
**Sample Name:** MW-8  
**Sample Matrix:** water  
**Date Received:** 08/18/2005 **Time:** 16:00  
**Date Sampled:** 08/15/2005 **Time:** 11:30

**REPORT OF ANALYSIS**

**QUALITY ASSURANCE DATA 1**

| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Volatiles organics-8260b/BTEX | ---    |       | ---              |       | 08/24/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                       | 1210   | µg/L  | 10               | <10   | 08/26/05 | 8260b               | ---                     | 5.5                | 93.3                | 87.3             | 89.6             |
| Ethylbenzene                  | 74.9   | µg/L  | 1                | <1    | 08/24/05 | 8260b               | ---                     | 2                  | 103                 | 98.3             | 101              |
| m,p-Xylenes                   | 32.6   | µg/L  | 2                | <2    | 08/24/05 | 8260b               | ---                     | 1.6                | 104.5               | 100.3            | 103.2            |
| o-Xylene                      | 1.49   | µg/L  | 1                | <1    | 08/24/05 | 8260b               | ---                     | 2.5                | 109.3               | 91.6             | 106.7            |
| Toluene                       | <1     | µg/L  | 1                | <1    | 08/24/05 | 8260b               | J                       | 6.1                | 101.4               | 94.7             | 96.9             |

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. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

*DW*  
Date 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.

Client: Environmental Plus, Inc.  
Attn: Iain Olness

Project ID: 2001-11043  
Sample Name: MW-8

Report#/Lab ID#: 169989  
Sample Matrix: water

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method | Recovery | Recovery Limits | Data Qualifiers |
|-----------------------|--------|----------|-----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 93.6     | 70-130          | ---             |
| Toluene-d8            | 8260b  | 106      | 80-127          | ---             |

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

Report #/Lab ID#: 169989 Matrix: water

Client: Environmental Plus, Inc.

Project ID: 2001-11043

Sample Name: MW-8

Attn: Iain Olness

**Sample Temperature/Condition:** <=6°C  
The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

- Sample Bottles & Preservation:**
- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
  - ☐ Sample received in appropriate container(s). State of sample preservation unknown.
  - ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

**J flag Discussion:**  
A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

**Comments pertaining to Data Qualifiers and QC data:**

| Parameter | Qualif | Comment                      |
|-----------|--------|------------------------------|
| Toluene   | J      | See J-flag discussion above. |

**Notes:**

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**Client:** Environmental Plus, Inc.  
**Attn:** Iain Olness  
**Address:** 2100 Ave. O  
Euince, NM 88231  
**Phone:** (505) 394-3481 **FAX:** (505) 394-2601

**REPORT OF ANALYSIS**

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 08/24/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                      | 22.8   | µg/L  | 1                | <1    | 08/24/05 | 8260b               | ---                     | 5.5                | 93.3                | 87.3             | 89.6             |
| Ethylbenzene                 | 63     | µg/L  | 1                | <1    | 08/24/05 | 8260b               | ---                     | 2                  | 103                 | 98.3             | 101              |
| m,p-Xylenes                  | 20.8   | µg/L  | 2                | <2    | 08/24/05 | 8260b               | ---                     | 1.6                | 104.5               | 100.3            | 103.2            |
| o-Xylene                     | 35.7   | µg/L  | 1                | <1    | 08/24/05 | 8260b               | ---                     | 2.5                | 109.3               | 91.6             | 106.7            |
| Toluene                      | <1     | µg/L  | 1                | <1    | 08/24/05 | 8260b               | ---                     | 6.1                | 101.4               | 94.7             | 96.9             |

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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.

**QUALITY ASSURANCE DATA 1**

**Report#/Lab ID#:** 169990 **Report Date:** 08/29/05  
**Project ID:** 2001-11043  
**Sample Name:** MW-9  
**Sample Matrix:** water  
**Date Received:** 08/18/2005 **Time:** 16:00  
**Date Sampled:** 08/15/2005 **Time:** 08:00



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

Client: Environmental Plus, Inc.  
Attn: Iain Ohness

Project ID: 2001-11043  
Sample Name: MW-9

Report#/Lab ID#: 169990  
Sample Matrix: water

#### REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limits | Data Qualifiers |
|-----------------------|--------|----------|-----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 90.2     | 70-130          | ---             |
| Toluene-d8            | 8260b  | 109      | 80-127          | ---             |

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



**Client:** Environmental Plus, Inc.  
**Attn:** Iain Olness  
**Address:** 2100 Ave. O  
Euinee, NM 88231  
**Phone:** (505) 394-3481 **FAX:** (505) 394-2601

**Report#/Lab ID#:** 169991 **Report Date:** 08/29/05  
**Project ID:** 2001-11043  
**Sample Name:** MW-10  
**Sample Matrix:** water  
**Date Received:** 08/18/2005 **Time:** 16:00  
**Date Sampled:** 08/15/2005 **Time:** 08:30

#### REPORT OF ANALYSIS

#### QUALITY ASSURANCE DATA 1

| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Volatiles organics-8260b/BTEX | ---    |       | ---              |       | 08/23/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                       | 791    | µg/L  | 10               | <10   | 08/25/05 | 8260b               | ---                     | 5.5                | 93.3                | 87.3             | 89.6             |
| Ethylbenzene                  | 74     | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 2                  | 103                 | 98.3             | 101              |
| m,p-Xylenes                   | 43.7   | µg/L  | 2                | <2    | 08/23/05 | 8260b               | ---                     | 1.6                | 104.5               | 100.3            | 103.2            |
| o-Xylene                      | <1     | µg/L  | 1                | <1    | 08/23/05 | 8260b               | J                       | 2.5                | 109.3               | 91.6             | 106.7            |
| Toluene                       | <1     | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 6.1                | 101.4               | 94.7             | 96.9             |

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Respectfully Submitted,

  
Dale Wagner

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Client: Environmental Plus, Inc.  
Attn: Iain Olness

Project ID: 2001-11043  
Sample Name: MW-10

Report#/Lab ID#: 169991  
Sample Matrix: water

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method | Recovery | Recovery Limits | Data Qualifiers |
|-----------------------|--------|----------|-----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 103      | 70-130          | ---             |
| Toluene-d8            | 8260b  | 104      | 80-127          | ---             |

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

**Report #/Lab ID#:** 169991 **Matrix:** water  
**Client:** Environmental Plus, Inc. **Attn:** Iain Olness  
**Project ID:** 2001-11043  
**Sample Name:** MW-10

**Sample Temperature/Condition:** <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <=6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

**Sample Bottles & Preservation:**

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.  
☐ Sample received in appropriate container(s). State of sample preservation unknown.  
☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

**J flag Discussion:**

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

**Comments pertaining to Data Qualifiers and QC data:**

| Parameter | Qualif | Comment                      |
|-----------|--------|------------------------------|
| o-Xylene  | J      | See J-flag discussion above. |

Notes:

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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#:** 169992 **Report Date:** 08/29/05  
**Project ID:** 2001-11043  
**Sample Name:** MW-11  
**Sample Matrix:** water  
**Date Received:** 08/18/2005 **Time:** 16:00  
**Date Sampled:** 08/15/2005 **Time:** 07:30

**REPORT OF ANALYSIS**

**QUALITY ASSURANCE DATA 1**

| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Volatiles organics-8260b/BTEX | ---    |       | ---              |       | 08/23/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                       | <1     | µg/L  | 1                | <1    | 08/23/05 | 8260b               | J                       | 5.5                | 93.3                | 87.3             | 89.6             |
| Ethylbenzene                  | <1     | µg/L  | 1                | <1    | 08/23/05 | 8260b               | J                       | 2                  | 103                 | 98.3             | 101              |
| m,p-Xylenes                   | <2     | µg/L  | 2                | <2    | 08/23/05 | 8260b               | J                       | 1.6                | 104.5               | 100.3            | 103.2            |
| o-Xylene                      | <1     | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 2.5                | 109.3               | 91.6             | 106.7            |
| Toluene                       | <1     | µg/L  | 1                | <1    | 08/23/05 | 8260b               | ---                     | 6.1                | 101.4               | 94.7             | 96.9             |

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Respectfully Submitted,

  
Dale Wagner

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Client: Environmental Plus, Inc.  
Attn: Iain Olness

Project ID: 2001-11043  
Sample Name: MW-11

Report#/Lab ID#: 169992  
Sample Matrix: water

# REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limits | Data Qualifiers |
|-----------------------|--------|----------|-----------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 97.3     | 70-130          | ---             |
| Toluene-d8            | 8260b  | 106      | 80-127          | ---             |

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

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

Report #/Lab ID#: 169992 Matrix: water

Client: Environmental Plus, Inc. Attn: Iain Olness

Project ID: 2001-11043

Sample Name: MW-11

**Sample Temperature/Condition:** <=6°C  
The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

- Sample Bottles & Preservation:**
- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
  - ☐ Sample received in appropriate container(s). State of sample preservation unknown.
  - ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

**J flag Discussion:**  
A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

**Comments pertaining to Data Qualifiers and QC data:**

| Parameter    | Qualif | Comment                      |
|--------------|--------|------------------------------|
| Benzene      | J      | See J-flag discussion above. |
| Ethylbenzene | J      | See J-flag discussion above. |
| m,p-Xylenes  | J      | See J-flag discussion above. |

**Notes:**

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# AnalySys Inc.

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

## Chain of Custody Form

**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       |             | Livingston Line - Bob McCasland |              |              |            |      |           |        |        |           |          |          |        |           |       |                  |                |                             |    |      |          |     |  |  |  |
| Project Reference   |             | 2001-11043                      |              |              |            |      |           |        |        |           |          |          |        |           |       |                  |                |                             |    |      |          |     |  |  |  |
| EPI Sampler Name    |             | George Blackburn                |              |              |            |      |           |        |        |           |          |          |        |           |       |                  |                |                             |    |      |          |     |  |  |  |
| LAB I.D.            | SAMPLE I.D. | (G)RAB OR (C)OMP.               | # CONTAINERS | GROUND WATER | WASTEWATER | SOIL | CRUDE OIL | SLUDGE | OTHER: | ACID/BASE | ICE/COOL | PRESERV. | MATRIX | SAMPLING  |       | ANALYSIS REQUEST |                |                             |    |      |          |     |  |  |  |
|                     |             |                                 |              |              |            |      |           |        |        |           |          |          |        | DATE      | TIME  | TPH 8015M        | CHLORIDES (Cl) | SULFATES (SO <sub>4</sub> ) | PH | TCLP | OTHER >> | PAH |  |  |  |
| 169983              | ✓1 MW-1     | G                               | 4            | X            |            |      |           |        |        | X         | X        | X        |        | 15-Aug-05 | 9:30  | X                |                |                             |    |      |          |     |  |  |  |
| 169984              | ✓2 MW-2     | G                               | 4            | X            |            |      |           |        |        | X         | X        | X        |        | 15-Aug-05 | 10:00 | X                |                |                             |    |      |          |     |  |  |  |
| 169985              | ✓3 MW-3     | G                               | 4            | X            |            |      |           |        |        | X         | X        | X        |        | 15-Aug-05 | 9:00  | X                |                |                             |    |      |          |     |  |  |  |
| 169986              | ✓4 MW-5     | G                               | 4            | X            |            |      |           |        |        | X         | X        | X        |        | 15-Aug-05 | 12:30 | X                |                |                             |    |      |          |     |  |  |  |
| 169987              | ✓5 MW-6     | G                               | 4            | X            |            |      |           |        |        | X         | X        | X        |        | 15-Aug-05 | 8:30  | X                |                |                             |    |      |          |     |  |  |  |
| 169988              | ✓6 MW-7     | G                               | 4            | X            |            |      |           |        |        | X         | X        | X        |        | 15-Aug-05 | 10:30 | X                |                |                             |    |      |          |     |  |  |  |
| 169989              | ✓7 MW-8     | G                               | 4            | X            |            |      |           |        |        | X         | X        | X        |        | 15-Aug-05 | 11:30 | X                |                |                             |    |      |          |     |  |  |  |
| 169990              | ✓8 MW-9     | G                               | 4            | X            |            |      |           |        |        | X         | X        | X        |        | 15-Aug-05 | 8:00  | X                |                |                             |    |      |          |     |  |  |  |
| 169991              | ✓9 MW-10    | G                               | 4            | X            |            |      |           |        |        | X         | X        | X        |        | 15-Aug-05 | 8:30  | X                |                |                             |    |      |          |     |  |  |  |
| 169992              | ✓10 MW-11   | G                               | 4            | X            |            |      |           |        |        | X         | X        | X        |        | 15-Aug-05 | 7:30  | X                |                |                             |    |      |          |     |  |  |  |

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: Livingston Line - Bob McCasland

Project Reference: 2001-11043

EPI Sampler Name: George Blackburn



**PLAINS**  
ALL-AMERICAN  
PIPELINE, L.P.

Attn: ENV Accounts Payable

PO Box 4648

Houston, TX 77210-4648

**RECEIVED**

Date: 8/17/05  
Time: 3:00

Received By: Iain Olness

Date: 8/17/05  
Time: 16:00

Received By: G. Lee

Sampler Relinquished: *Iain Olness*

Relinquished by: *Iain Olness*

Delivered by: *Iain Olness*

Sample Cool & Intact

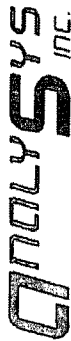
Yes ☒ No ☐

Checked By: *Iain Olness*

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

REMARKS:

11-26-00



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#:** 173912 **Report Date:** 12/05/05

**Project ID:** 2001-11043 Livingston Line

**Sample Name:** MW-2

**Sample Matrix:** water

**Date Received:** 11/22/2005 **Time:** 10:30

**Date Sampled:** 11/18/2005 **Time:** 07:30

#### REPORT OF ANALYSIS

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 11/28/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                      | 413    | µg/L  | 2                | <2    | 11/28/05 | 8260b               | ---                     | 0.2                | 104.5               | 96.9             | 100.6            |
| Ethylbenzene                 | 114    | µg/L  | 2                | <2    | 11/28/05 | 8260b               | ---                     | 4.6                | 110.5               | 110.7            | 112.5            |
| m,p-Xylenes                  | 122    | µg/L  | 4                | <4    | 11/28/05 | 8260b               | ---                     | 2.9                | 111.8               | 110.3            | 112.3            |
| o-Xylene                     | 34.9   | µg/L  | 2                | <2    | 11/28/05 | 8260b               | ---                     | 3.5                | 121.8               | 116.1            | 120.4            |
| Toluene                      | 2.07   | µg/L  | 2                | <2    | 11/28/05 | 8260b               | ---                     | 9.1                | 108.1               | 98.3             | 106.2            |

#### QUALITY ASSURANCE DATA 1

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Richard Elton

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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

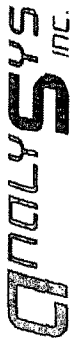
Project ID: 2001-11043 Livingston Line  
Sample Name: MW-2

Report#/Lab ID#: 173912  
Sample Matrix: water

#### REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limits | Date Analyze | Data Qualifiers |
|-----------------------|--------|----------|-----------------|--------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 113      | 70-130          | 11/28/05     | ---             |
| Toluene-d8            | 8260b  | 110      | 80-127          | 11/28/05     | ---             |

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



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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#:** 173913 **Report Date:** 12/05/05

**Project ID:** 2001-11043 Livingston Line

**Sample Name:** MW-4

**Sample Matrix:** water

**Date Received:** 11/22/2005 **Time:** 10:30

**Date Sampled:** 11/18/2005 **Time:** 08:00

#### REPORT OF ANALYSIS

#### QUALITY ASSURANCE DATA 1

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    | ---   | ---              | ---   | 12/01/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                      | 2620   | µg/L  | 50               | <50   | 12/01/05 | 8260b               | ---                     | 3.5                | 101.7               | 102.8            | 100.4            |
| Ethylbenzene                 | 379    | µg/L  | 50               | <50   | 12/01/05 | 8260b               | ---                     | 3.7                | 99.1                | 102.8            | 99.3             |
| m,p-Xylenes                  | 711    | µg/L  | 100              | <100  | 12/01/05 | 8260b               | ---                     | 4.3                | 100.8               | 103.1            | 101.4            |
| o-Xylene                     | 36.5   | µg/L  | 2                | <2    | 12/02/05 | 8260b               | ---                     | 4.1                | 107.7               | 97.3             | 108.3            |
| Toluene                      | <2     | µg/L  | 2                | <2    | 12/02/05 | 8260b               | J                       | 3.3                | 106.6               | 108.5            | 104.8            |

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Richard Elton

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.  
Attn: Iain Olness

Project ID: 2001-11043 Livingston Line  
Sample Name: MW-4

Report#/Lab ID#: 173913  
Sample Matrix: water

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method | Recovery | Recovery Limits | Date Analyze | Data Qualifiers |
|-----------------------|--------|----------|-----------------|--------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 106      | 70-130          | 12/01/05     | ---             |
| Toluene-d8            | 8260b  | 99.3     | 80-127          | 12/01/05     | ---             |

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

## Exceptions Report:

Report #/Lab ID#: 173913 Matrix: water  
Client: Environmental Plus, Inc. Attn: Iain Olness  
Project ID: 2001-11043 Livingston Line  
Sample Name: MW-4

### Sample Temperature/Condition: $\leq 6^{\circ}\text{C}$

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is  $\leq 6^{\circ}\text{C}$ . Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

### Sample Bottles & Preservation:

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

### J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

### Comments pertaining to Data Qualifiers and QC data:

| Parameter | Qualif | Comment                      |
|-----------|--------|------------------------------|
| Toluene   | J      | See J-flag discussion above. |

### Notes:

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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#:** 173914 **Report Date:** 12/05/05

**Project ID:** 2001-11043 Livingston Line

**Sample Name:** MW-5

**Sample Matrix:** water

**Date Received:** 11/22/2005 **Time:** 10:30

**Date Sampled:** 11/18/2005 **Time:** 08:30

#### REPORT OF ANALYSIS

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 11/30/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                      | 10.7   | 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               | J                       | 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                      | 1.15   | 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. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Elton

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#### QUALITY ASSURANCE DATA 1



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

Project ID: 2001-11043 Livingston Line  
Sample Name: MW-5

Report#/Lab ID#: 173914  
Sample Matrix: water

#### REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limits | Date Analyze | Data Qualifiers |
|-----------------------|--------|----------|-----------------|--------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 124      | 70-130          | 11/30/05     | ---             |
| Toluene-d8            | 8260b  | 104      | 80-127          | 11/30/05     | ---             |

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

**Exceptions Report:**

|                                               |                      |                          |
|-----------------------------------------------|----------------------|--------------------------|
| <b>Report #/Lab ID#:</b> 173914               | <b>Matrix:</b> water | <b>Attn:</b> Iain Olness |
| <b>Client:</b> Environmental Plus, Inc.       |                      |                          |
| <b>Project ID:</b> 2001-11043 Livingston Line |                      |                          |
| <b>Sample Name:</b> MW-5                      |                      |                          |

**Sample Temperature/Condition:** <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

**Sample Bottles & Preservation:**

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

**J flag Discussion:**

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

**Comments pertaining to Data Qualifiers and QC data:**

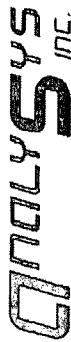
| Parameter   | Qualif | Comment                      |
|-------------|--------|------------------------------|
| m,p-Xylenes | J      | See J-flag discussion above. |

**Notes:**

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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#:** 173915 **Report Date:** 12/05/05

**Project ID:** 2001-11043 Livingston Line

**Sample Name:** MW-6

**Sample Matrix:** water

**Date Received:** 11/22/2005 **Time:** 10:30

**Date Sampled:** 11/18/2005 **Time:** 09:00

## REPORT OF ANALYSIS

## QUALITY ASSURANCE DATA 1

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| 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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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.  
Attn: Iain Olness

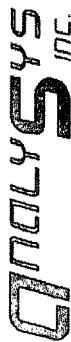
Project ID: 2001-11043 Livingston Line  
Sample Name: MW-6

Report#/Lab ID#: 173915  
Sample Matrix: water

#### REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limits | Date Analyze | Data Qualifiers |
|-----------------------|--------|----------|-----------------|--------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 88.8     | 70-130          | 11/30/05     | ---             |
| Toluene-d8            | 8260b  | 83.1     | 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.  
**Attn:** Iain Olness  
**Address:** 2100 Ave. O  
Eunice, NM 88231  
**Phone:** (505) 394-3481 **FAX:** (505) 394-2601

**Report#/Lab ID#:** 173916 **Report Date:** 12/05/05  
**Project ID:** 2001-11043 Livingston Line  
**Sample Name:** MW-7  
**Sample Matrix:** water  
**Date Received:** 11/22/2005 **Time:** 10:30  
**Date Sampled:** 11/18/2005 **Time:** 09:30

#### REPORT OF ANALYSIS

| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Volatiles 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

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.



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

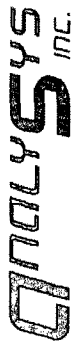
Project ID: 2001-11043 Livingston Line  
Sample Name: MW-7

Report#/Lab ID#: 173916  
Sample Matrix: water

#### REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limits | Date Analyze | Data Qualifiers |
|-----------------------|--------|----------|-----------------|--------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 95.2     | 70-130          | 11/30/05     | ---             |
| Toluene-d8            | 8260b  | 103      | 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  
Emice, NM 88231

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

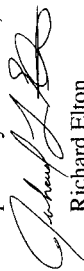
**Report#/Lab ID#:** 173917 **Report Date:** 12/05/05  
**Project ID:** 2001-11043 Livingston Line  
**Sample Name:** MW-8  
**Sample Matrix:** water  
**Date Received:** 11/22/2005 **Time:** 10:30  
**Date Sampled:** 11/18/2005 **Time:** 10:00

#### REPORT OF ANALYSIS

#### QUALITY ASSURANCE DATA 1

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Volatile organics-8260b/BTEX | ---    |       | ---              |       | 12/01/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                      | 670    | µg/L  | 5                | <5    | 12/01/05 | 8260b               | ---                     | 5.6                | 95.7                | 109.5            | 98               |
| Ethylbenzene                 | 29.9   | µg/L  | 5                | <5    | 12/01/05 | 8260b               | ---                     | 3.1                | 109                 | 111.8            | 109.3            |
| m,p-Xylenes                  | 16.5   | µg/L  | 10               | <10   | 12/01/05 | 8260b               | ---                     | 1.3                | 105.3               | 112              | 109              |
| o-Xylene                     | <1     | µg/L  | 1                | <1    | 12/01/05 | 8260b               | J                       | 1.4                | 104.4               | 111.2            | 108.2            |
| Toluene                      | <1     | µg/L  | 1                | <1    | 12/01/05 | 8260b               | ---                     | 4.7                | 104.9               | 114.6            | 102              |

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Richard Elton

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.  
Attn: Iain Olness

Project ID: 2001-11043 Livingston Line  
Sample Name: MW-8

Report#/Lab ID#: 173917  
Sample Matrix: water

#### REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limits | Date Analyze | Data Qualifiers |
|-----------------------|--------|----------|-----------------|--------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 127      | 70-130          | 12/01/05     | ---             |
| Toluene-d8            | 8260b  | 92.8     | 80-127          | 12/01/05     | ---             |

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

Exceptions Report:

|                                        |               |                   |
|----------------------------------------|---------------|-------------------|
| Report #/Lab ID#: 173917               | Matrix: water | Attn: Iain Olness |
| Client: Environmental Plus, Inc.       |               |                   |
| Project ID: 2001-11043 Livingston Line |               |                   |
| Sample Name: MW-8                      |               |                   |

Sample Temperature/Condition: <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

Sample Bottles & Preservation:

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

J flag Discussion:

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (ROL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

Comments pertaining to Data Qualifiers and QC data:

| Parameter | Qualif | Comment                      |
|-----------|--------|------------------------------|
| o-Xylene  | J      | See J-flag discussion above. |

Notes:

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(512) 385-5886 • FAX (512) 385-7411

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

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

**Report#/Lab ID#:** 173918 **Report Date:** 12/05/05

**Project ID:** 2001-11043 Livingston Line

**Sample Name:** MW-9

**Sample Matrix:** water

**Date Received:** 11/22/2005 **Time:** 10:30

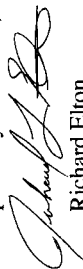
**Date Sampled:** 11/18/2005 **Time:** 10:30

#### REPORT OF ANALYSIS

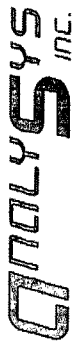
| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Volatiles organics-8260b/BTEX | ---    |       | ---              |       | 12/01/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                       | 3.99   | µg/L  | 1                | <1    | 12/01/05 | 8260b               | ---                     | 5.6                | 95.7                | 109.5            | 98               |
| Ethylbenzene                  | 28.1   | µg/L  | 1                | <1    | 12/01/05 | 8260b               | ---                     | 3.1                | 109                 | 111.8            | 109.3            |
| m,p-Xylenes                   | 27.6   | µg/L  | 2                | <2    | 12/01/05 | 8260b               | ---                     | 1.3                | 105.3               | 112              | 109              |
| o-Xylene                      | 60.7   | µg/L  | 1                | <1    | 12/01/05 | 8260b               | ---                     | 1.4                | 104.4               | 111.2            | 108.2            |
| Toluene                       | <1     | µg/L  | 1                | <1    | 12/01/05 | 8260b               | ---                     | 4.7                | 104.9               | 114.6            | 102              |

#### QUALITY ASSURANCE DATA<sup>1</sup>

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Richard Elton

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.  
Attn: Iain Olness

Project ID: 2001-11043 Livingston Line  
Sample Name: MW-9

Report#/Lab ID#: 173918  
Sample Matrix: water

#### REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limits | Date Analyze | Data Qualifiers |
|-----------------------|--------|----------|-----------------|--------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 84.7     | 70-130          | 12/01/05     | ---             |
| Toluene-d8            | 8260b  | 91.4     | 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  
Euinee, NM 88231

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

**Report#/Lab ID#:** 173919 **Report Date:** 12/05/05  
**Project ID:** 2001-11043 Livingston Line  
**Sample Name:** MW-10  
**Sample Matrix:** water  
**Date Received:** 11/22/2005 **Time:** 10:30  
**Date Sampled:** 11/18/2005 **Time:** 11:00

# REPORT OF ANALYSIS

## QUALITY ASSURANCE DATA 1

| Parameter                     | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|-------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| Volatiles organics-8260b/BTEX | ---    |       | ---              |       | 12/01/05 | 8260b(5030/5035)    | ---                     | ---                | ---                 | ---              | ---              |
| Benzene                       | 1250   | µg/L  | 10               | <10   | 12/01/05 | 8260b               | ---                     | 5.6                | 95.7                | 109.5            | 98               |
| Ethylbenzene                  | 91.6   | µg/L  | 10               | <10   | 12/01/05 | 8260b               | ---                     | 3.1                | 109                 | 111.8            | 109.3            |
| m,p-Xylenes                   | 59.7   | µg/L  | 20               | <20   | 12/01/05 | 8260b               | ---                     | 1.3                | 105.3               | 112              | 109              |
| o-Xylene                      | <1     | µg/L  | 1                | <1    | 12/01/05 | 8260b               | J                       | 1.4                | 104.4               | 111.2            | 108.2            |
| Toluene                       | <1     | µg/L  | 1                | <1    | 12/01/05 | 8260b               | ---                     | 4.7                | 104.9               | 114.6            | 102              |

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Respectfully Submitted,

Richard Elton

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

Client: Environmental Plus, Inc.  
Attn: Iain Olness

Project ID: 2001-11043 Livingston Line  
Sample Name: MW-10

Report#/Lab ID#: 173919  
Sample Matrix: water

**REPORT OF SURROGATE RECOVERY**

| Surrogate Compound    | Method | Recovery | Recovery Limits | Date Analyze | Data Qualifiers |
|-----------------------|--------|----------|-----------------|--------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 127      | 70-130          | 12/01/05     | ---             |
| Toluene-d8            | 8260b  | 97.7     | 80-127          | 12/01/05     | ---             |

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

**Exceptions Report:**

|                                               |                      |                          |
|-----------------------------------------------|----------------------|--------------------------|
| <b>Report #/Lab ID#:</b> 173919               | <b>Matrix:</b> water | <b>Attn:</b> Iain Olness |
| <b>Client:</b> Environmental Plus, Inc.       |                      |                          |
| <b>Project ID:</b> 2001-11043 Livingston Line |                      |                          |
| <b>Sample Name:</b> MW-10                     |                      |                          |

**Sample Temperature/Condition:** <=6°C

The typical sample temperature criteria (except for metals by ICP, GFAA and AA and a very few other tests) is <= 6°C. Possible exceptions include samples submitted to laboratory within such a short time after sampling that cooling measures used in the field and during transport had insufficient time to achieve desired temperatures in the samples (see sample collection and sample receipt times) and samples where the temperature could not be measured due to sample submission in a manner precluding temperature measurement without impacting sample integrity (ex. in a bottle with no cooler).

**Sample Bottles & Preservation:**

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in appropriate container(s). State of sample preservation unknown.
- ☐ Sample received in inappropriate container(s) and/or with unknown state of preservation.

**J flag Discussion:**

A J flag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background levels/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. Because the reported result is below the quantitation limit for this project/sample (or test procedure), GC/MS organics results may or MAY NOT have been verified as to the presence and relative ratio of target ions (eg. the material causing the J flag "hit" in such situations may be nothing more than background ion-fragment noise.)

**Comments pertaining to Data Qualifiers and QC data:**

| Parameter | Qualif | Comment                      |
|-----------|--------|------------------------------|
| o-Xylene  | J      | See J-flag discussion above. |

**Notes:**

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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#:** 173920 **Report Date:** 12/05/05

**Project ID:** 2001-11043 Livingston Line

**Sample Name:** MW-11

**Sample Matrix:** water

**Date Received:** 11/22/2005 **Time:** 10:30

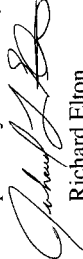
**Date Sampled:** 11/18/2005 **Time:** 11:30

## REPORT OF ANALYSIS

## QUALITY ASSURANCE DATA 1

| Parameter                    | Result | Units | RQL <sup>5</sup> | Blank | Date     | Method <sup>6</sup> | Data Qual. <sup>7</sup> | Prec. <sup>2</sup> | Recov. <sup>3</sup> | CCV <sup>4</sup> | LCS <sup>4</sup> |
|------------------------------|--------|-------|------------------|-------|----------|---------------------|-------------------------|--------------------|---------------------|------------------|------------------|
| 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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2209 N. Padre Island Dr., Corpus Christi, TX 78408  
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.  
Attn: Iain Olness

Project ID: 2001-11043 Livingston Line  
Sample Name: MW-11

Report#/Lab ID#: 173920  
Sample Matrix: water

# REPORT OF SURROGATE RECOVERY

| Surrogate Compound    | Method | Recovery | Recovery Limits | Date Analyze | Data Qualifiers |
|-----------------------|--------|----------|-----------------|--------------|-----------------|
| 1,2-Dichloroethane-d4 | 8260b  | 95.4     | 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.

14014

# Analysys Inc.

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

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

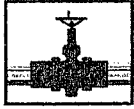
## Chain of Custody Form

|                                                  |         |                                                                     |  |                  |  |                   |  |            |  |           |  |                |  |                             |  |      |  |      |  |           |  |     |  |
|--------------------------------------------------|---------|---------------------------------------------------------------------|--|------------------|--|-------------------|--|------------|--|-----------|--|----------------|--|-----------------------------|--|------|--|------|--|-----------|--|-----|--|
| Company Name<br>Environmental Plus, Inc.         |         | Bill To                                                             |  | ANALYSIS REQUEST |  |                   |  |            |  |           |  |                |  |                             |  |      |  |      |  |           |  |     |  |
| EPI Project Manager<br>Iain Olness               |         | PLAINS ALL-AMERICAN PIPELINE, L.P.                                  |  | PRESERV.         |  | SAMPLING          |  | BTEX 8021B |  | TPH 8015M |  | CHLORIDES (Cl) |  | SULFATES (SO <sub>4</sub> ) |  | pH   |  | TCLP |  | OTHER >>> |  | PAH |  |
| Mailing Address<br>P.O. BOX 1558                 |         | Attn: ENV Accounts Payable<br>PO Box 4648<br>Houston, TX 77210-4648 |  | MATRIX           |  | OTHER             |  | ICE/COOL   |  | ACID/BASE |  | OTHER          |  | DATE                        |  | TIME |  |      |  |           |  |     |  |
| City, State, Zip<br>Eunice New Mexico 88231      |         |                                                                     |  | GROUND WATER     |  | WASTEWATER        |  | SOIL       |  | CRUDE OIL |  | SLUDGE         |  |                             |  |      |  |      |  |           |  |     |  |
| EPI Phone/Fax#<br>505-394-3481 / 505-394-2601    |         |                                                                     |  | # CONTAINERS     |  | (G)RAB OR (C)OMP. |  |            |  |           |  |                |  |                             |  |      |  |      |  |           |  |     |  |
| Client Company<br>Plains All American            |         |                                                                     |  | 4                |  | G                 |  | X          |  | X         |  | X              |  | X                           |  | X    |  | X    |  | X         |  | X   |  |
| Facility Name<br>Livingston Line - Bob McCasland |         |                                                                     |  | 4                |  | G                 |  | X          |  | X         |  | X              |  | X                           |  | X    |  | X    |  | X         |  | X   |  |
| Project Reference<br>2001-11043                  |         |                                                                     |  | 4                |  | G                 |  | X          |  | X         |  | X              |  | X                           |  | X    |  | X    |  | X         |  | X   |  |
| EPI Sampler Name<br>George Blackburn             |         |                                                                     |  | 4                |  | G                 |  | X          |  | X         |  | X              |  | X                           |  | X    |  | X    |  | X         |  | X   |  |
| LAB I.D.                                         |         | SAMPLE I.D.                                                         |  | 4                |  | G                 |  | X          |  | X         |  | X              |  | X                           |  | X    |  | X    |  | X         |  | X   |  |
| 173912                                           | 1 MW-2  |                                                                     |  | 4                |  | G                 |  | X          |  | X         |  | X              |  | X                           |  | X    |  | X    |  | X         |  | X   |  |
| 173913                                           | 2 MW-4  |                                                                     |  | 4                |  | G                 |  | X          |  | X         |  | X              |  | X                           |  | X    |  | X    |  | X         |  | X   |  |
| 173914                                           | 3 MW-5  |                                                                     |  | 4                |  | G                 |  | X          |  | X         |  | X              |  | X                           |  | X    |  | X    |  | X         |  | X   |  |
| 173915                                           | 4 MW-6  |                                                                     |  | 4                |  | G                 |  | X          |  | X         |  | X              |  | X                           |  | X    |  | X    |  | X         |  | X   |  |
| 173916                                           | 5 MW-7  |                                                                     |  | 4                |  | G                 |  | X          |  | X         |  | X              |  | X                           |  | X    |  | X    |  | X         |  | X   |  |
| 173917                                           | 6 MW-8  |                                                                     |  | 4                |  | G                 |  | X          |  | X         |  | X              |  | X                           |  | X    |  | X    |  | X         |  | X   |  |
| 173918                                           | 7 MW-9  |                                                                     |  | 4                |  | G                 |  | X          |  | X         |  | X              |  | X                           |  | X    |  | X    |  | X         |  | X   |  |
| 173919                                           | 8 MW-10 |                                                                     |  | 4                |  | G                 |  | X          |  | X         |  | X              |  | X                           |  | X    |  | X    |  | X         |  | X   |  |
| 173920                                           | 9 MW-11 |                                                                     |  | 4                |  | G                 |  | X          |  | X         |  | X              |  | X                           |  | X    |  | X    |  | X         |  | X   |  |
| 10                                               |         |                                                                     |  |                  |  |                   |  |            |  |           |  |                |  |                             |  |      |  |      |  |           |  |     |  |

|                                   |  |                             |  |                                          |  |                                                                 |  |
|-----------------------------------|--|-----------------------------|--|------------------------------------------|--|-----------------------------------------------------------------|--|
| Sampler Relinquished:             |  | Date<br>11-21-05            |  | Received By:<br>Rory Rollins             |  | E-mail results to: iolness@envplus.net and cjreynolds@paalp.com |  |
| Relinquished by:<br>Dawn Mcgovern |  | Time<br>10:00               |  | Received By: (lab staff)<br>ASL 11-22-05 |  | REMARKS:                                                        |  |
| Delivered by:                     |  | Sample Cool & Intact<br>Yes |  | Checked By:<br>10:30 AM                  |  |                                                                 |  |

Temp: 2.1°



# PLAINS ALL AMERICAN

March 30, 2005

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 Reports  
4 Sites 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 our Annual Monitoring reports for the following sites:

|                              |                                                          |
|------------------------------|----------------------------------------------------------|
| 8" Moore to Jal #1           | Section 16, Township 17 South, Range 37 East, Lea County |
| 8" Moore to Jal #2           | Section 16, Township 17 South, Range 37 East, Lea County |
| Lovington Deep 6"            | Section 6, Township 17 South, Range 36 East, Lea County  |
| Livingston Line B. McCasland | Section 3, Township 21 South, Range 37 East, Lea County  |

EPI prepared these documents and has vouched for their accuracy and completeness, and on behalf of Plains All American, I have personally reviewed the documents and interviewed EPI in order to verify the accuracy and completeness of these documents. It is based upon these inquiries and reviews that Plains All American submits the enclosed Annual Monitoring Reports for the above 4 facilities.

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

Sincerely,

Camille Reynolds  
Remediation Coordinator  
Plains All American

CC: Larry Johnson, NMOCD, Hobbs, NM

Enclosures



ENVIRONMENTAL PLUS, INC.

Micro-Blaze

Micro-Blaze Out™

STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

29 March 2005

Mr. Ed Martin  
NM Energy, Minerals, and Natural Resources Department  
New Mexico Oil Conservation Division – Environmental Bureau  
1220 South St. Francis Drive  
Santa Fe, NM 87505

Re: Annual Monitoring Report  
Plains All American Pipeline, L.P. Livingston Line – Bob McCasland (Ref. #2001-11043)  
UL-K, Section 3, T21S, R37E, Lea County, New Mexico

Dear Mr. Martin:

Environmental Plus, Inc. (EPI), on behalf of Ms. Camille Reynolds, Plains All American Pipeline, L.P. (Plains), submits for your consideration this *Annual Monitoring Report* for the above-referenced site. Based on data collected during the past year, Plains recommends reducing site monitoring for, and recovery of, phase-separated hydrocarbons (PSH) to a monthly basis. In addition, Plains recommends the collection of groundwater level data in the groundwater monitoring wells not impacted with PSH on a monthly basis and continued quarterly sampling of these groundwater monitoring wells.

Should you have any questions or comments please feel free to contact me at (505) 394-3481. Ms. Reynolds may be contacted through Plains' Lovington office at (505) 396-3341. All official correspondence should be addressed to:

Ms. Camille Reynolds  
Plains All American Pipeline, L.P.  
P.O. Box 3119  
Midland, Texas 79702-3119

Sincerely,

ENVIRONMENTAL PLUS, INC.

Iain Olness, P.G.  
Hydrogeologist

cc: Larry W. Johnson, NMOCD – Hobbs District Office  
Camille Reynolds, Plains All American Pipeline, L.P. – Lovington  
Jeff Dann, Plains All American Pipeline, L.P. – Houston  
File

ENVIRONMENTAL PLUS, INC.