AP - 54

ANNUAL MONITORING REPORT

YEAR(S):

2004

PLAINS
ALL AMERICAN
PIPELINE, L.P.

1R-384

2004 ANNUAL MONITORING REPORT

Hobbs Junction Mainline
Ref. # 2003-00017

UL-M of Section 26, R37E, T18S
Latitude 32°42'40.85"N and Longitude 103°13'42.01"W
Elevation ~3,372'amsl

3 miles west of Hobbs, Lea, New Mexico

March 2005

Prepared by

Environmental Plus, Inc.
2100 West Avenue O
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Eunice, New Mexico 88231
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(enviplus1@aol.com)

PLAINS
ALL AMERICAN

April 13, 2005

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

Re: Plains Pipeline, L.P.
2004 Annual Monitoring Report
Hobbs Junction Mainline #2003-00017
UL-M Section 26, T18S, R37E
Lea County, New Mexico

Dear Mr. Martin,

Enclosed, please find 2 copies of the 2004 Annual Monitoring Report for the Plains Pipeline, L.P., Hobbs Junction Mainline #2003-00017 remediation site. This report presents monitoring activities at the site during 2004 and provides recommendations for 2005 for your approval.

Should you have any questions, please contact me at (505) 441-0965.

Sincerely,

Camille Reynolds

Camille Reynolds
Remediation Coordinator
Plains Pipeline, L.P.

cc: Larry Johnson, NMOCD, Hobbs

STANDARD OF CARE

2004 ANNUAL MONITORING REPORT

Hobbs Junction Mainline
Ref. # 2003-00017

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

This report was prepared by:

Pat McCasland — 13 April 2005
Date

This report was reviewed by:

Iain Olness, PG — 13 April 2005
Date

Distribution List

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Camille Reynolds	Environmental Supervisor	Plains	P.O. Box 3119, Midland, TX 79702	cjreynolds@paalp.com
Jeff Dann	Environmental Director	Plains	333 Clay Street Suite #1600, Houston, TX 77002	jpdann@paalp.com
file	Archive	EPI	P.O. Box 1558, Eunice, NM 88231	enviplus1@aol.com

NMOCD - New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division
Plains - Plains Pipeline L.P.
EPI - Environmental Plus, Inc.

Table of Contents

APPENDIX

1.0 BACKGROUND

This site is located in UL-M (SW¼ of the SW¼) of Section 26 and UL-D (NW¼ of the NW¼) of Section 35 in Range 37 East, Township 18 South at a latitude of 32°42'40.85"N and a longitude of 103°13'42.01"W, approximately 3 miles west of Hobbs, Lea County, New Mexico on property owned by State of New Mexico and Faye Klein (reference Figures 1 through 3). The estimated 50 barrel crude oil leak was attributed to internal corrosion. The pipe has been replaced and tested. The leak occurred on January 23, 2003 in the 10" steel pipeline with 24 barrels of crude oil recovered and reintroduced to the system. Approximately 12,500 square feet (ft^2) (50' x 470') of surface area was affected. A limited amount of impacted soil in the area of the leak origin was excavated and stockpiled on a plastic barrier on site. During excavation activities it was also observed that a historical spill or spills had occurred at the site. During site delineation activities in February 2003, crude oil was found to have impacted the ground water measured at approximately 40 feet below ground surface ('bgs). In June 2003, with approval from the New Mexico Oil Conservation Division (NMOCD) and the landowners, monitor wells MW1 through MW6 were installed and found to be impacted with phase separated hydrocarbons (PSH). Weekly product recovery and site surveillance began in June 2003. In August 2003, a remote gasoline powered product recovery system was deployed and in October 2003, electrical power was installed at the site and a skid mounted recovery system deployed. To bound the areal extents of PSH and dissolved phase hydrocarbon impact, monitor wells MW7 through MW13 were installed in January 2004. MW12, south of the leak origin was impacted with PSH. Monitor wells MW7 through MW11 and MW13 were not impacted by PSH or dissolved phase hydrocarbons. MW13 is installed between the leak origin and the private irrigation well located approximately 620' west of the leak origin. In May 2004, with approval from the NMOCD and the landowners, monitoring wells MW14 and MW17 were installed as interior recovery wells and monitoring wells MW15 and MW16 installed to delineate the southern extents of the dissolved phase plume.

2.0 2004 FIELD ACTIVITIES

Site visits occurred at least three times per week to maintain the PSH recovery system and manage produced fluids. The monitoring wells not impacted with PSH were sampled on January 23, May 12, July 19, and November 8, 2004. Prior to collecting the laboratory sample, groundwater and PSH levels were also collected. To allow the groundwater and PSH levels to stabilize and ensure representative and comparable measurements, the PSH recovery system was shutdown at least 48-hours prior to collecting the well level information.

3.0 GROUNDWATER GRADIENT

The area groundwater gradient, as illustrated in Figure 4, is to the southeast and was determined using area water well information from the New Mexico Office of the State Engineer. The site gradient is consistent with the area groundwater gradient. (Reference Figures 5 through 7)

4.0 PSH Thickness

Stabilized PSH thicknesses have declined in the PSH impacted wells with declines ranging up to 2.81-feet in MW3. Water and PSH levels and calculated PSH thicknesses are included in Table 1 and illustrated in Figures 11 and 12. The monitoring well specific PSH thickness declination table is included as Table 2.

5.0 PSH Recovery

In 2004, approximately 18,060 gallons of crude oil were recovered and reintroduced into the Plains Pipeline, L.P. pipeline system. The total recovery volume as of December 31, 2004, including approximately 3,800 gallons recovered in 2003, is 21,860 gallons (520 bbls).

6.0 Groundwater Sampling

PSH impacted monitoring wells (i.e., MW1 through MW6, MW12, MW14, and MW17) were not sampled in 2004. Sampling events occurred on January 23, May 12, July 19, and November 8, 2004. Each well sampled was purged of 3 well volumes or dry prior to collecting the laboratory samples.

7.0 Analytical Results

The monitoring well samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX). Monitoring well samples were also analyzed for polynuclear aromatic hydrocarbons (PAH) at least once during the year. In addition to routine sampling of the site monitoring wells, the Klein irrigation well, located approximately 620-feet west of the leak origin, was sampled during the July and November events. The analytical results are summarized in Tables 3 and 4 and illustrated in Figures 13 and 14. The laboratory reports are included in Appendix A.

7.1 January 23, 2004 Sampling Event

The BTEX parameters were not detected in the monitoring well samples collected during the January event. Samples were not collected for PAH analyses and the Klein irrigation well was not accessible.

7.2 May 12,2004 Sampling Event

Benzene was detected in the sample collected from monitoring well MW8 above the method detection limit (MDL), (i.e., 1.10 micrograms per liter (µg/L)) during this event but was less than the New Mexico Water Quality Control Commission (WQCC) standard of 10.0 µg/L. Samples were not collected for PAH analyses and the Klein irrigation well was not accessible.

7.3 July 19, 2004 Sampling Event

Toluene was detected in the sample collected from monitoring well MW15 above the MDL, (i.e., 1.01 µg/L), during this event but was less than the New Mexico Water Quality Control Commission (WQCC) standard of 750 µg/L. All other BTEX analytical results from samples collected from the monitoring wells were less than the respective method detection limits. Results from analysis of PAH samples collected from monitoring wells MW7, MW9, MW10, MW11, MW15, and

MW16 were all less than the MDLs for the PAH suite of parameters with the exception of naphthalene in monitoring well MW15 with a concentration of 0.051 µg/L but was less than the WQCC standard of 30 µg/L.

7.4 NOVEMBER 8, 2004 SAMPLING EVENT

The benzene concentration in the groundwater sample from monitoring well MW16 was 25.50 µg/L and was the only monitoring well sample reported above the 10.0 µg/L WQCC standard. Benzene was also detected in samples from monitoring wells MW8, MW11, and MW15 but were less than the WQCC standard. No other BTEX parameters were detected above the respective MDLs. The BTEX parameters were not reported to be above the MDLs in the Klein irrigation well sample. Results from analysis of PAH samples collected from monitoring wells MW8 and MW13 were all less than the MDLs for the PAH suite of analytes.

8.0 STATUS AND RECOMMENDATIONS

In September 2004, Plains submitted a Stage I and Stage II Abatement Plan for the site to the NMOCD in accordance with 19.15.1.19 NMAC (Rule 19) and is awaiting final NMOCD approval. Based on field monitoring and analytical results collected during the past year, the following recommendations are being made (reference Table 5):

1) Continue to monitor the system on a semi-weekly basis to record water and PSH levels, maintain the PSH recovery system, and inspect the site.

2) Install 2 additional groundwater monitoring wells to further delineate the lateral extent of the dissolved phase groundwater impacts. The proposed location of monitoring well MW18 is approximately 75-feet south of monitoring well MW16 and proposed monitoring well MW19 is approximately 75-feet south of monitoring well MW15 (reference Figure 15).

3) Continue to sample monitor wells not impacted with PSH quarterly for the BTEX parameters and annually for the PAH parameters. Sample the up-gradient Klein irrigation well annually. If impact is detected during quarterly monitoring of perimeter monitoring well MW13, located between the leak origin and the Klein irrigation well, the Klein irrigation well will be sampled and analyzed immediately and quarterly there after.

FIGURES

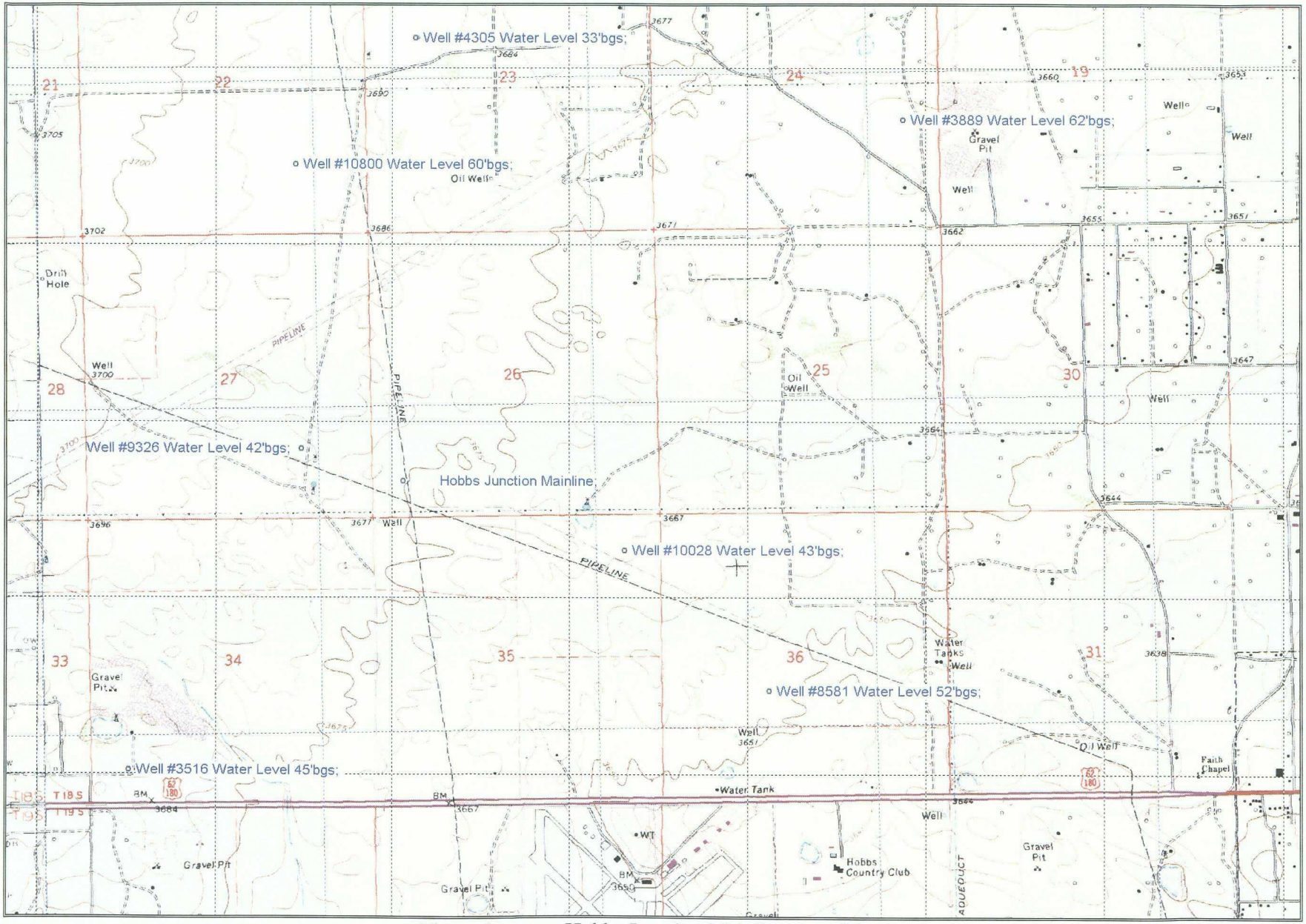


Figure 1 Hobbs Junction Mainline Area Map

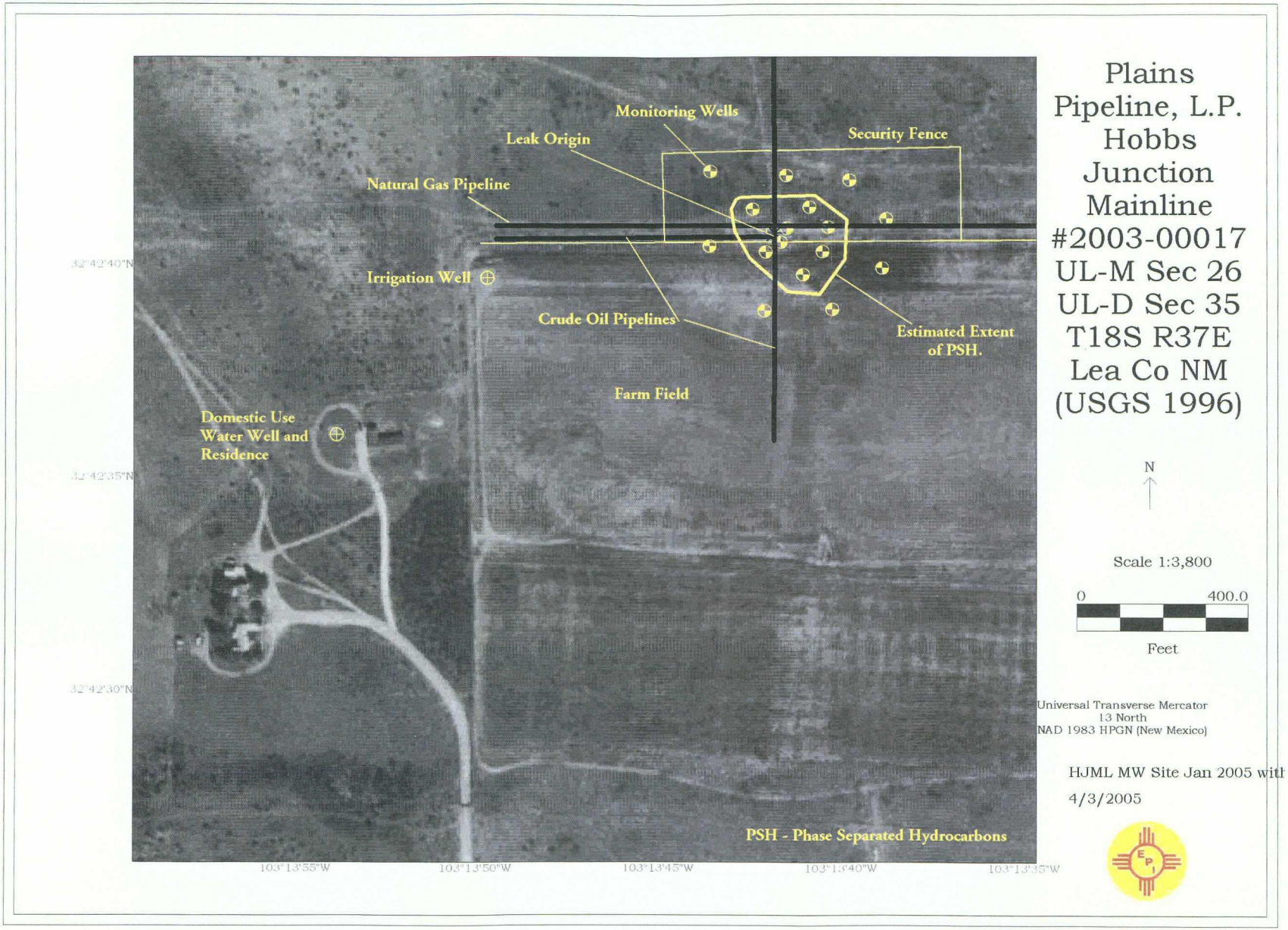


Figure 2 Hobbs Junction Mainline Aerial Map (USGS 1996)

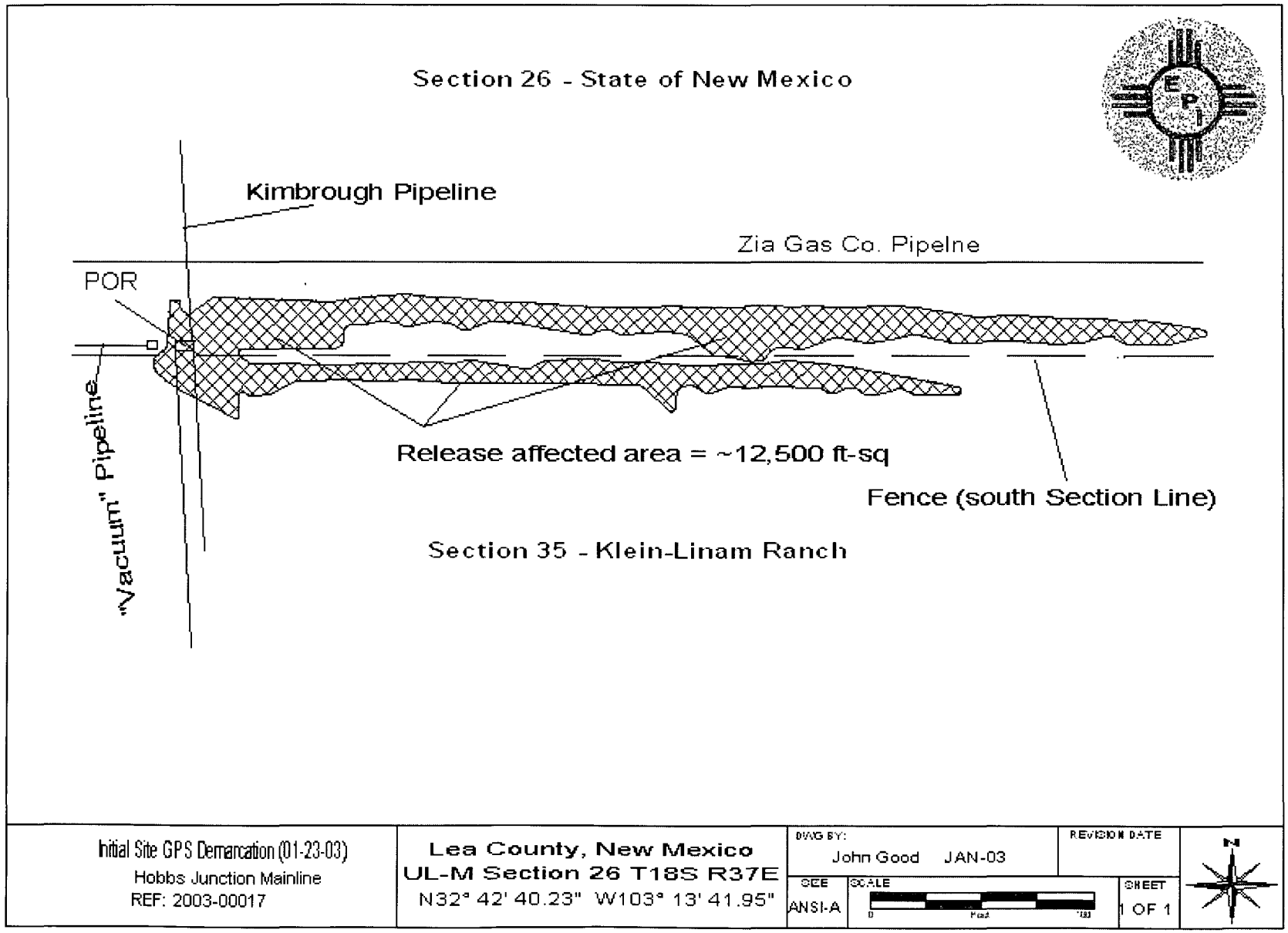
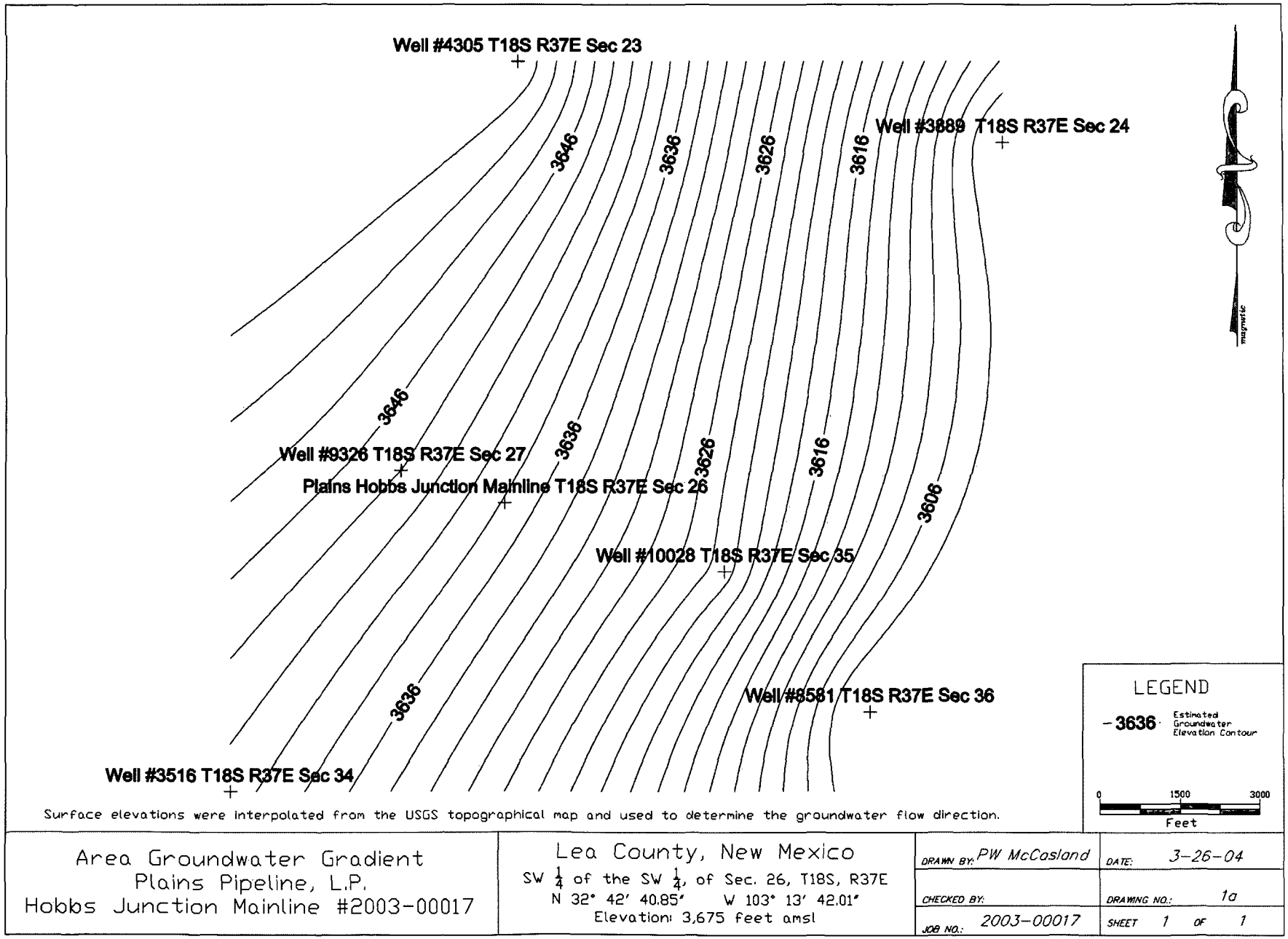


Figure 3 Initial Release Site Map



Area Groundwater Gradient Plains Pipeline, L.P. Hobbs Junction Mainline #2003-00017	Lea County, New Mexico SW ¼ of the SW ¼, of Sec. 26, T18S, R37E N 32° 42' 40.85" W 103° 13' 42.01" Elevation: 3,675 feet amsl	DRAWN BY: PW McCasland	DATE: 3-26-04
		CHECKED BY:	DRAWING NO.: 1a
		JOB NO.: 2003-00017	SHEET 1 OF 1

Figure 4 Area Groundwater Gradient Map

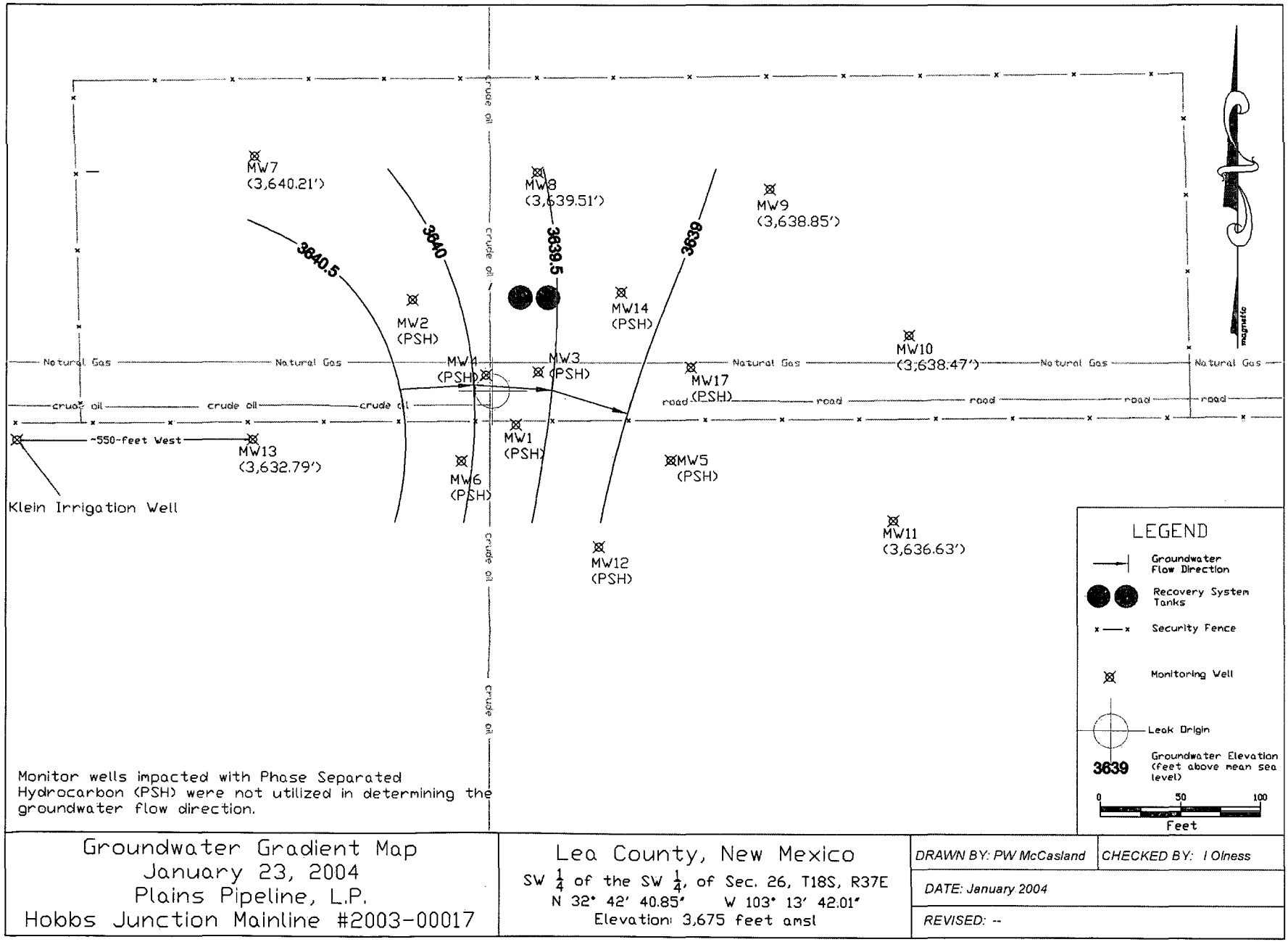


Figure 5 January 2004 Groundwater Gradient Map

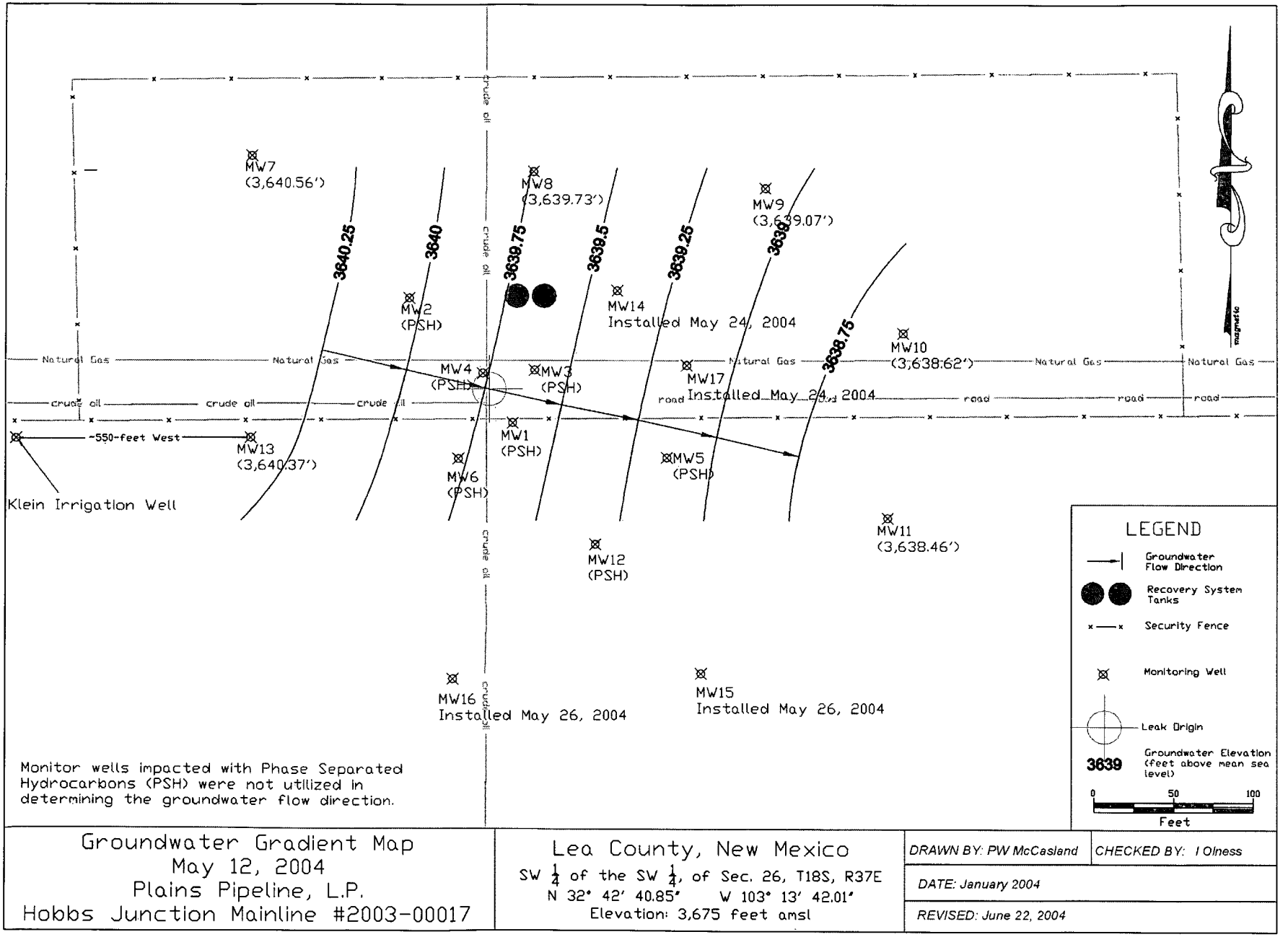
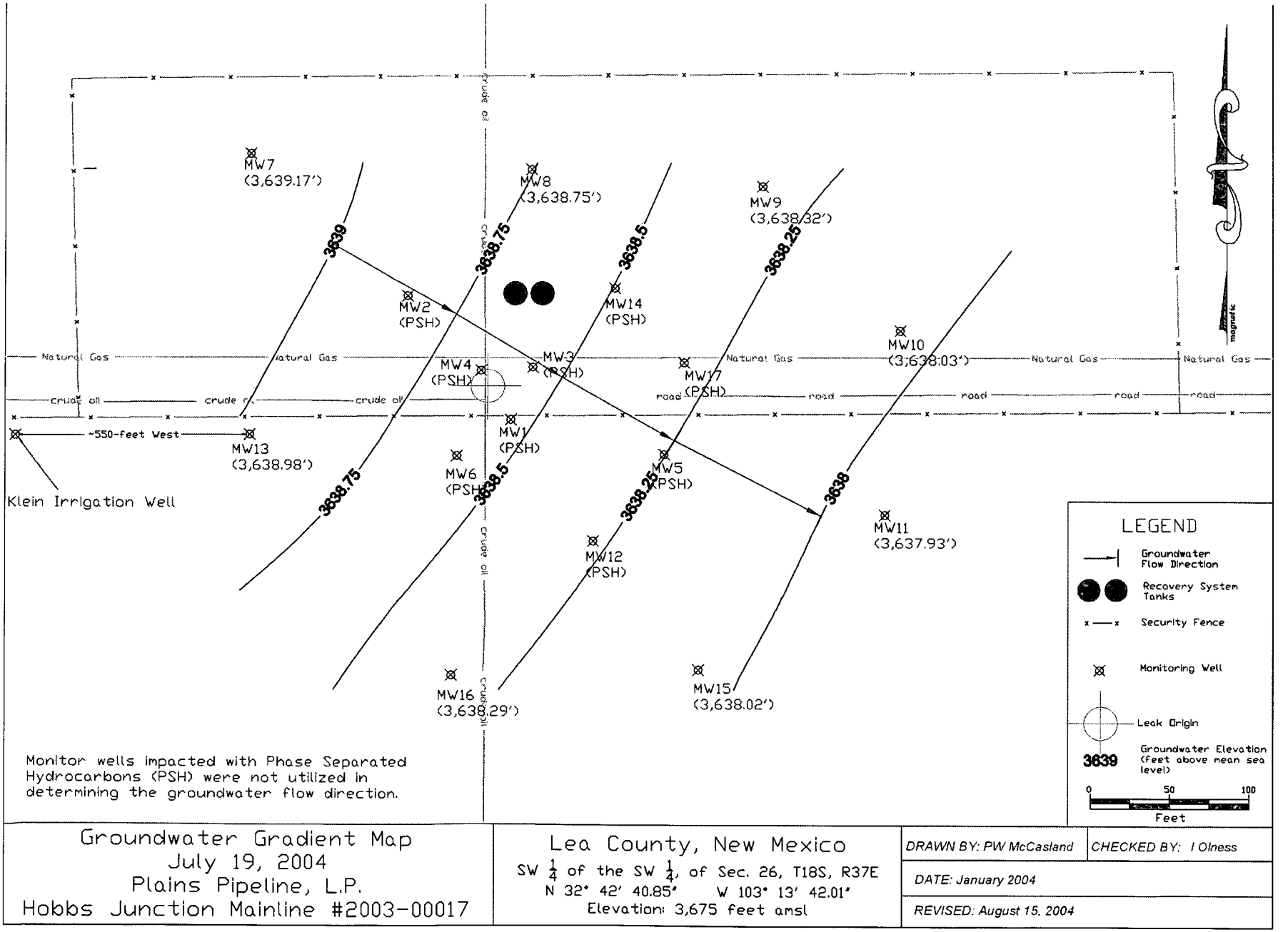


Figure 6 May 2004 Groundwater Gradient Map



Groundwater Gradient Map July 19, 2004 Plains Pipeline, L.P. Hobbs Junction Mainline #2003-00017	Lea County, New Mexico SW ¼ of the SW ¼, of Sec. 26, T18S, R37E N 32° 42' 40.85" W 103° 13' 42.01" Elevation: 3,675 feet amsl	DRAWN BY: PW McCasland	CHECKED BY: I Olness
		DATE: January 2004	
		REVISED: August 15, 2004	

Figure 7 July 2004 Groundwater Gradient Map

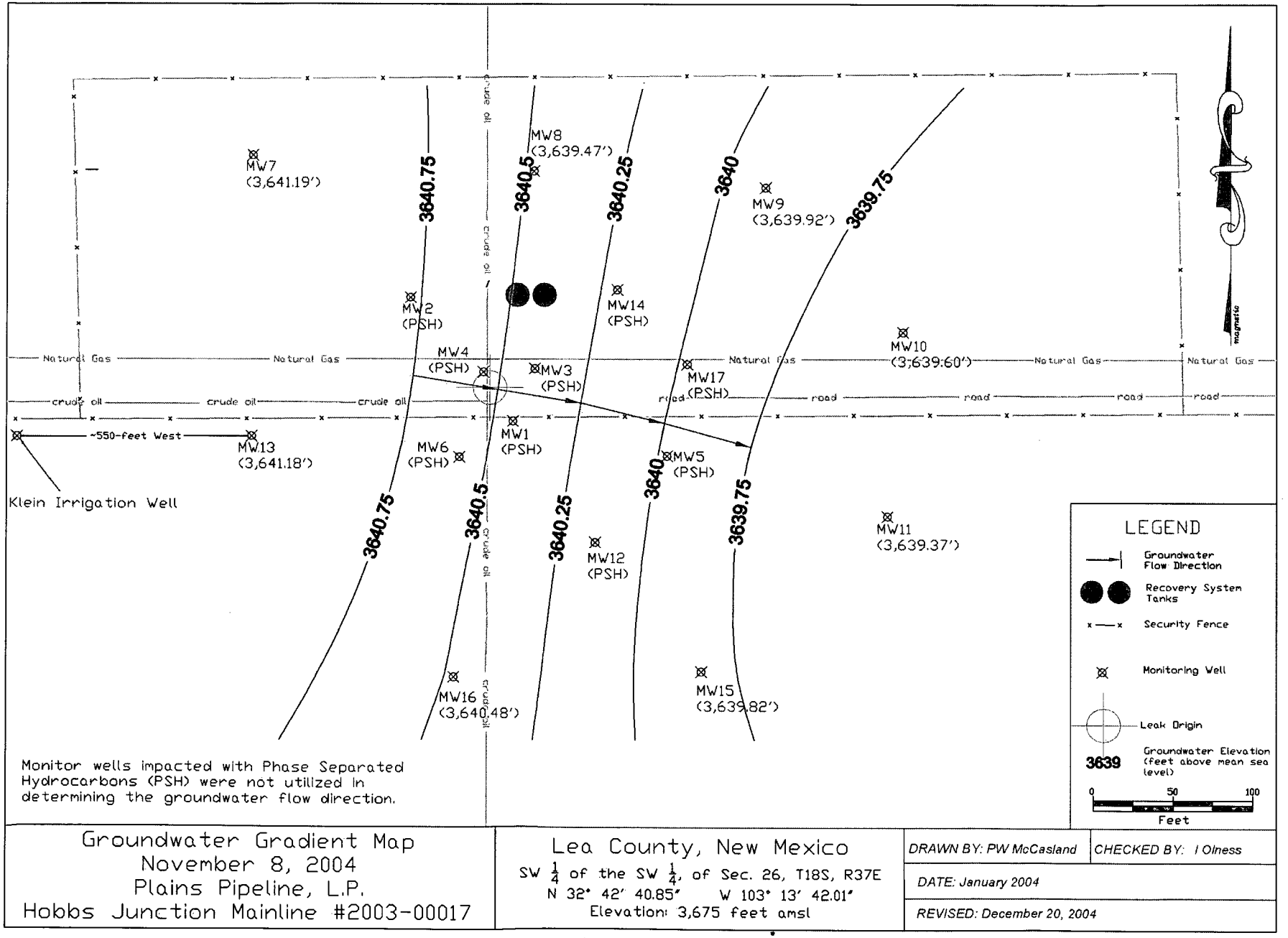


Figure 8 November 2004 Groundwater Gradient Map

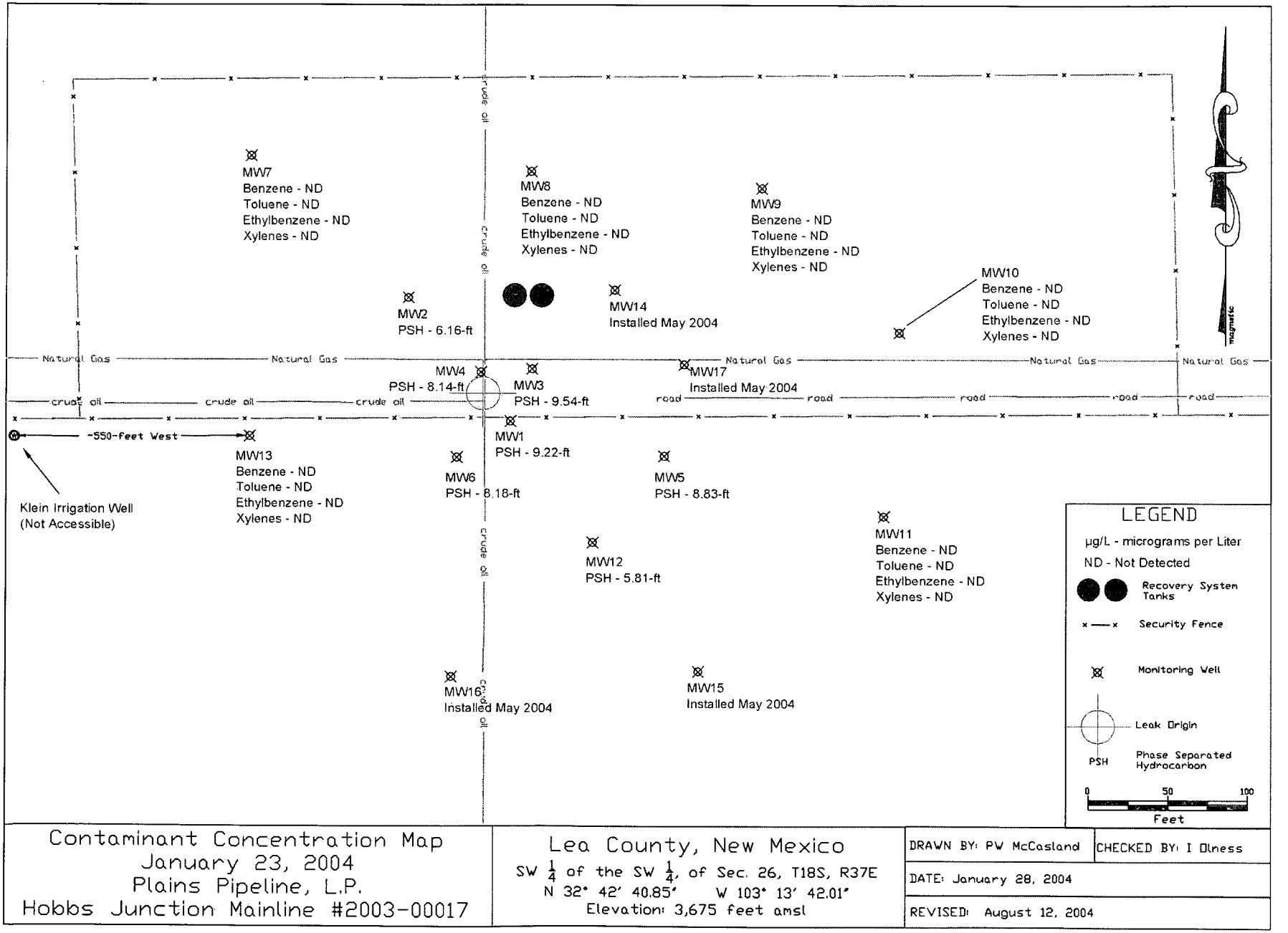


Figure 9 January 2004 Contaminant Concentration Map

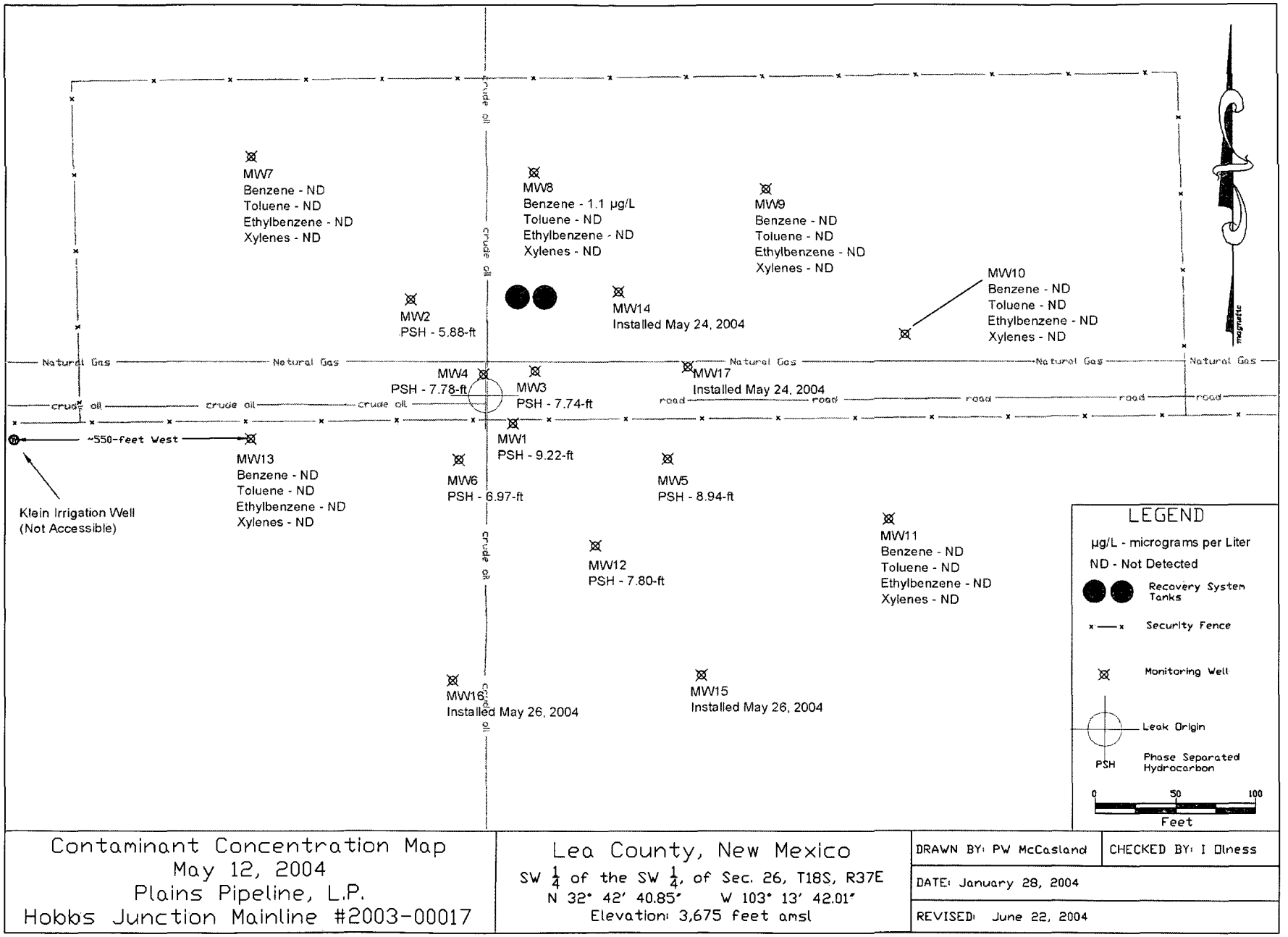


Figure 10 May 2004 Contaminant Concentration Map

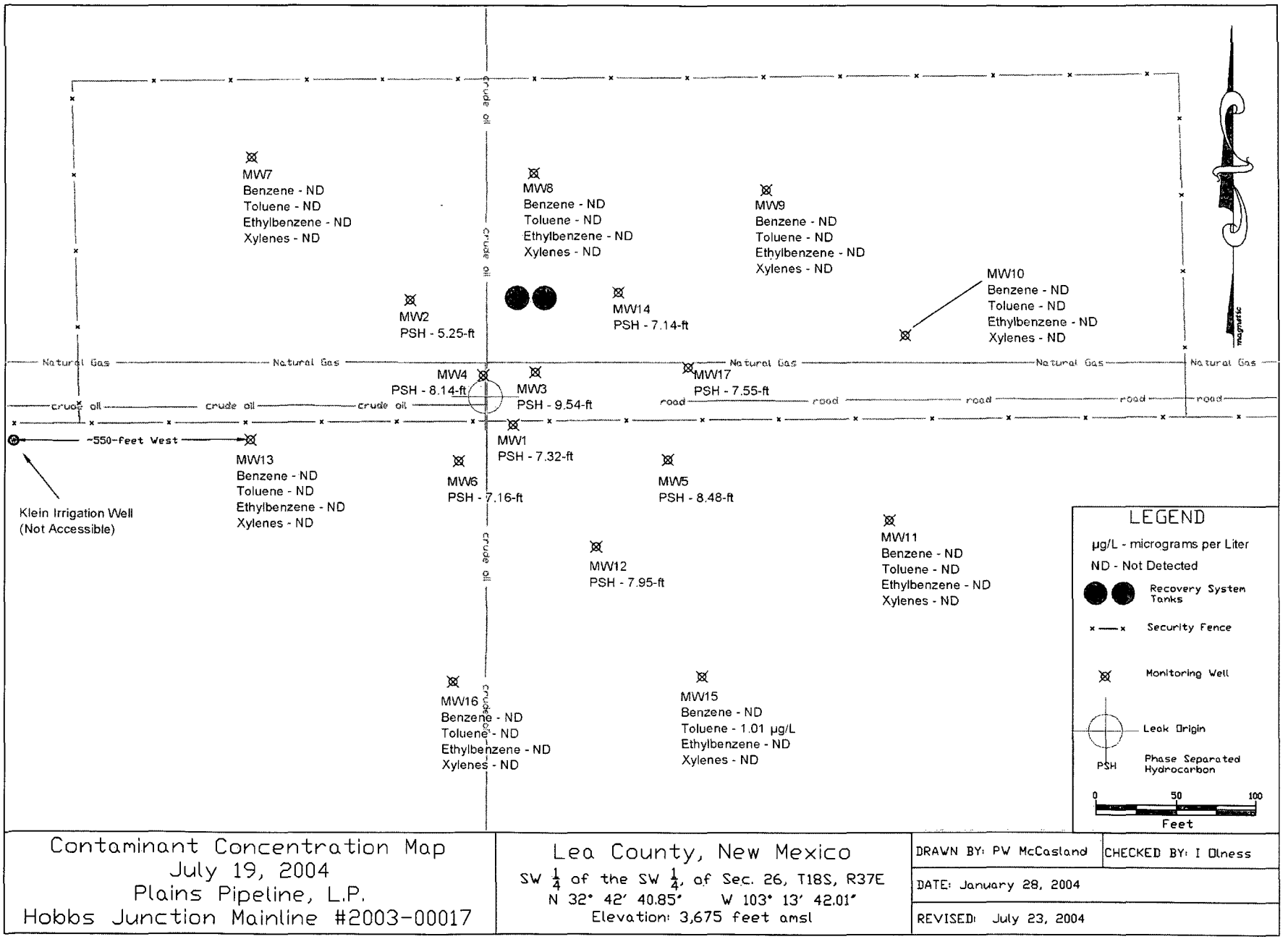


Figure 11 July 2004 Contaminant Concentration Map

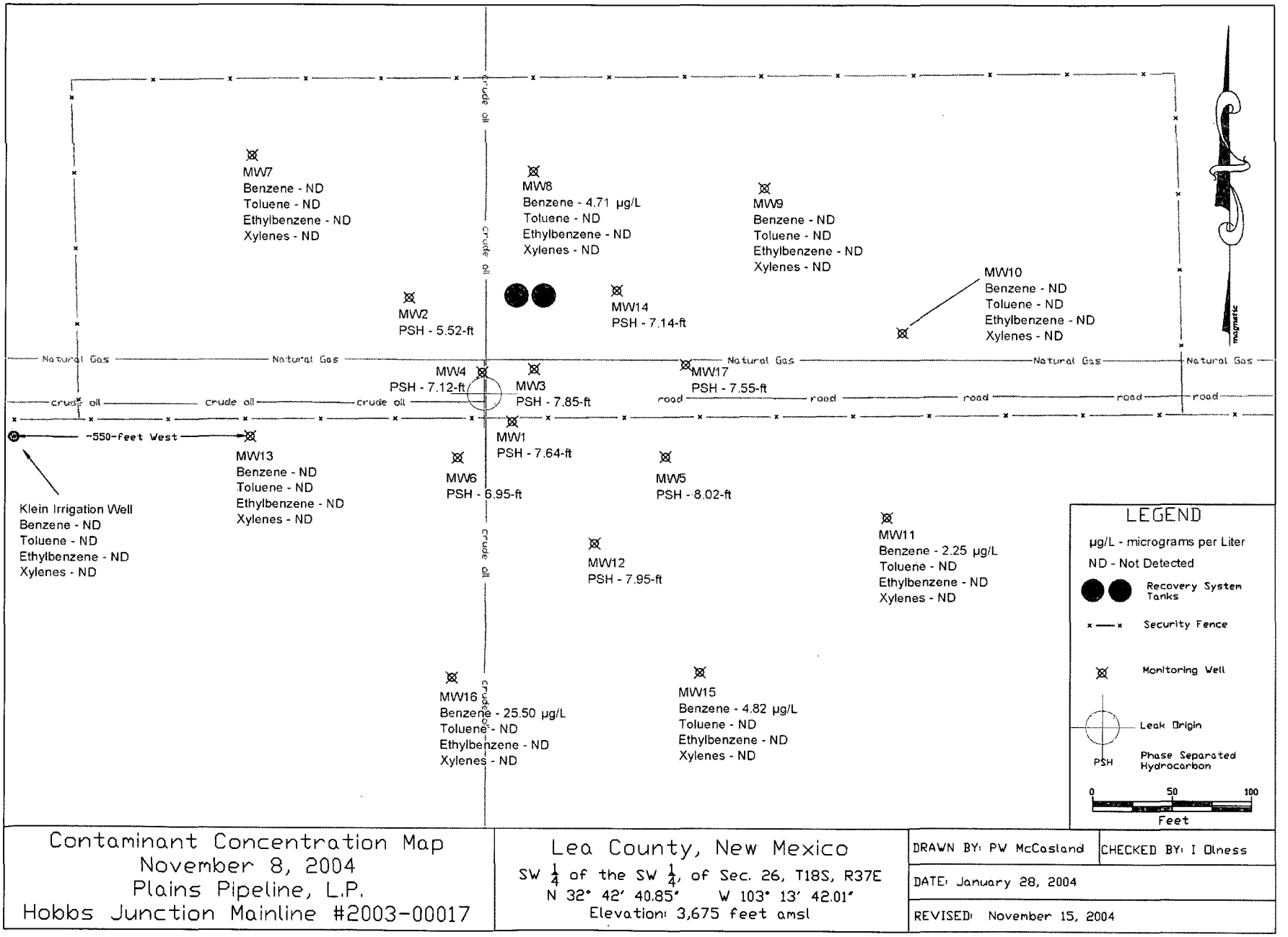


Figure 12 November 2004 Contaminant Concentration Map

Plains Pipeline, L.P.
Hobbs Junction Mainline #2003-00017
Groundwater and PSH Measurements and PSH Thickness
Monitoring Wells MW1-MW6

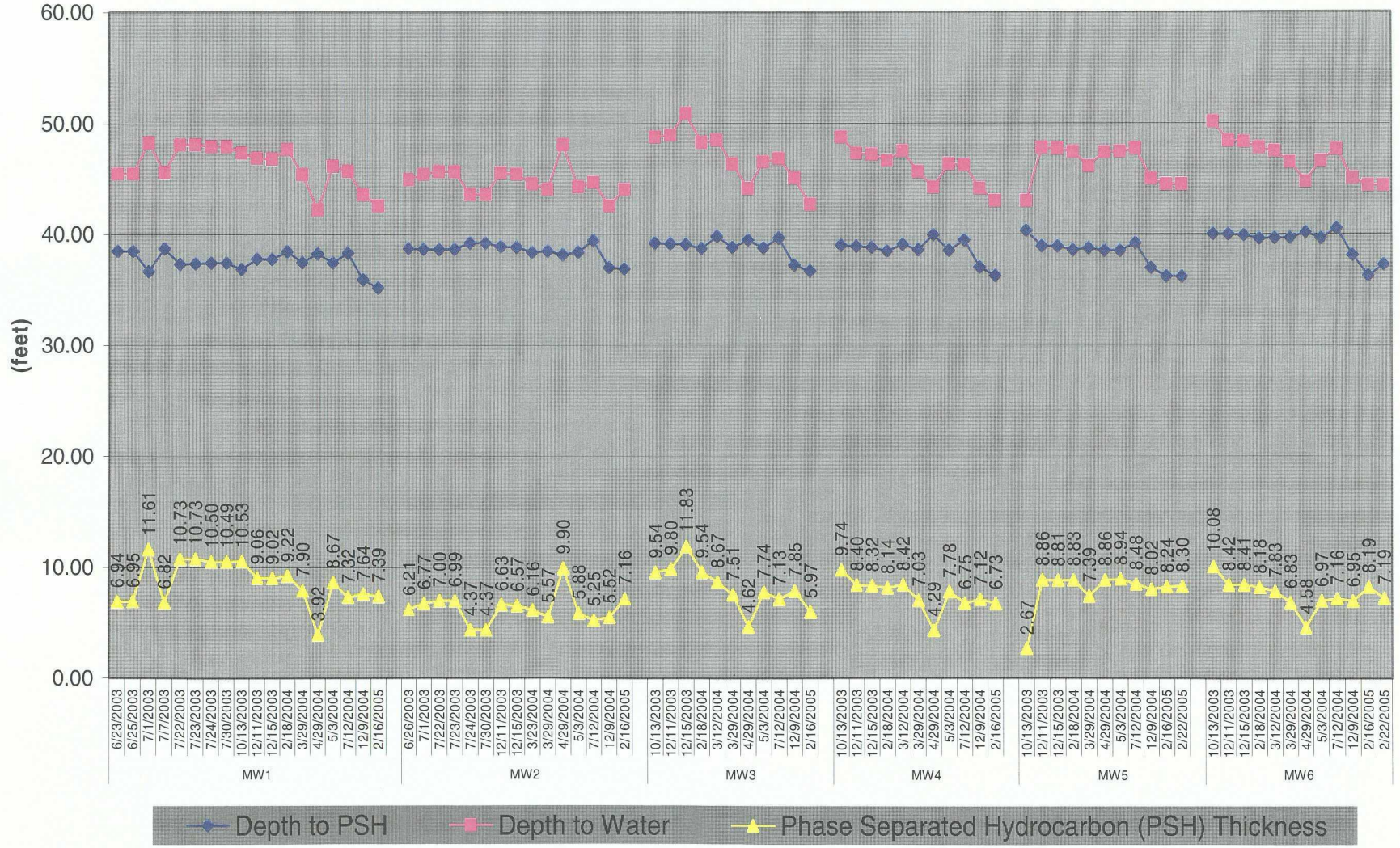


Figure 13 Groundwater and PSH Measurements and PSH Thickness (MW1-MW6)

Plains Pipeline, L.P.
Hobbs Junction Mainline #2003-00017
Groundwater and PSH Measurements and PSH Thickness
Monitoring Wells MW7-MW17

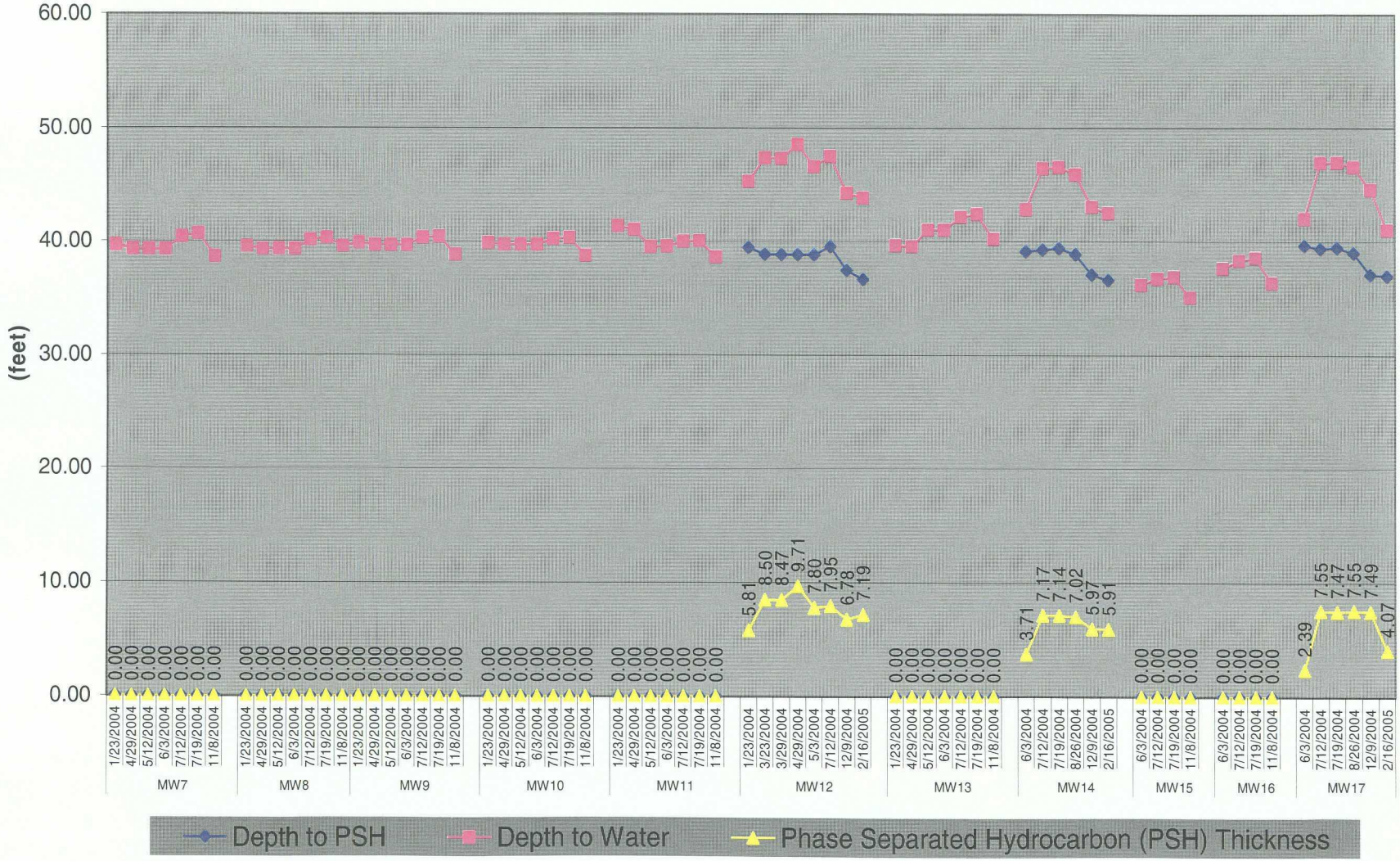


Figure 14 Groundwater and PSH Measurements and PSH Thickness (MW7-MW17)

Plains Pipeline, L.P.
Hobbs Junction Mainline #2003-00017
Benzene, Toluene, Ethylbenzene, and Xylene Concentrations
Monitoring Wells MW1-MW6

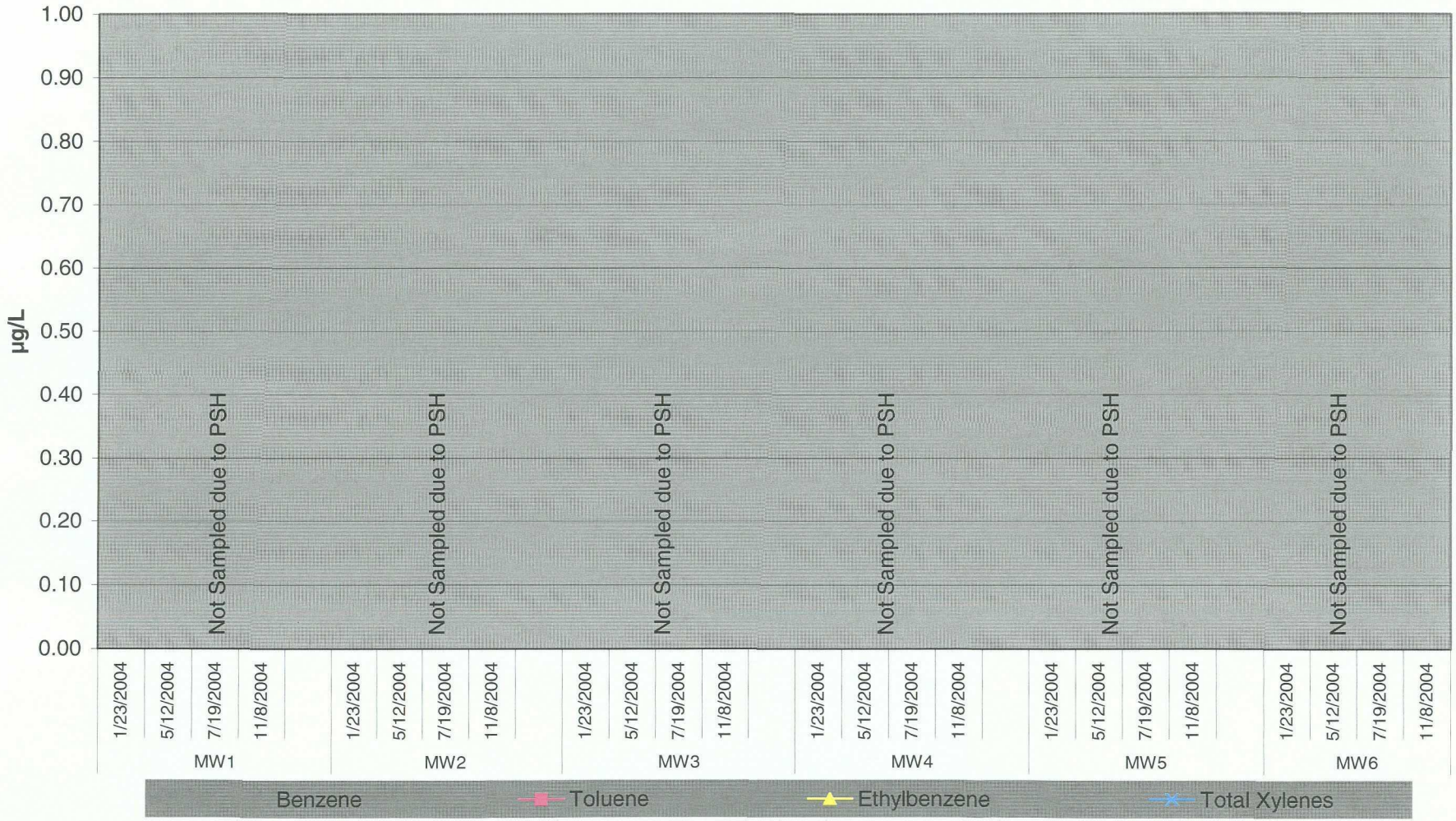


Figure 15 BTEX Concentrations (MW1-MW6)

Plains Pipeline, L.P.
Hobbs Junction Mainline #2003-00017
Benzene, Toluene, Ethylbenzene, and Xylene Concentrations
Monitoring Wells MW7-MW17 and Klein Irrigation Well

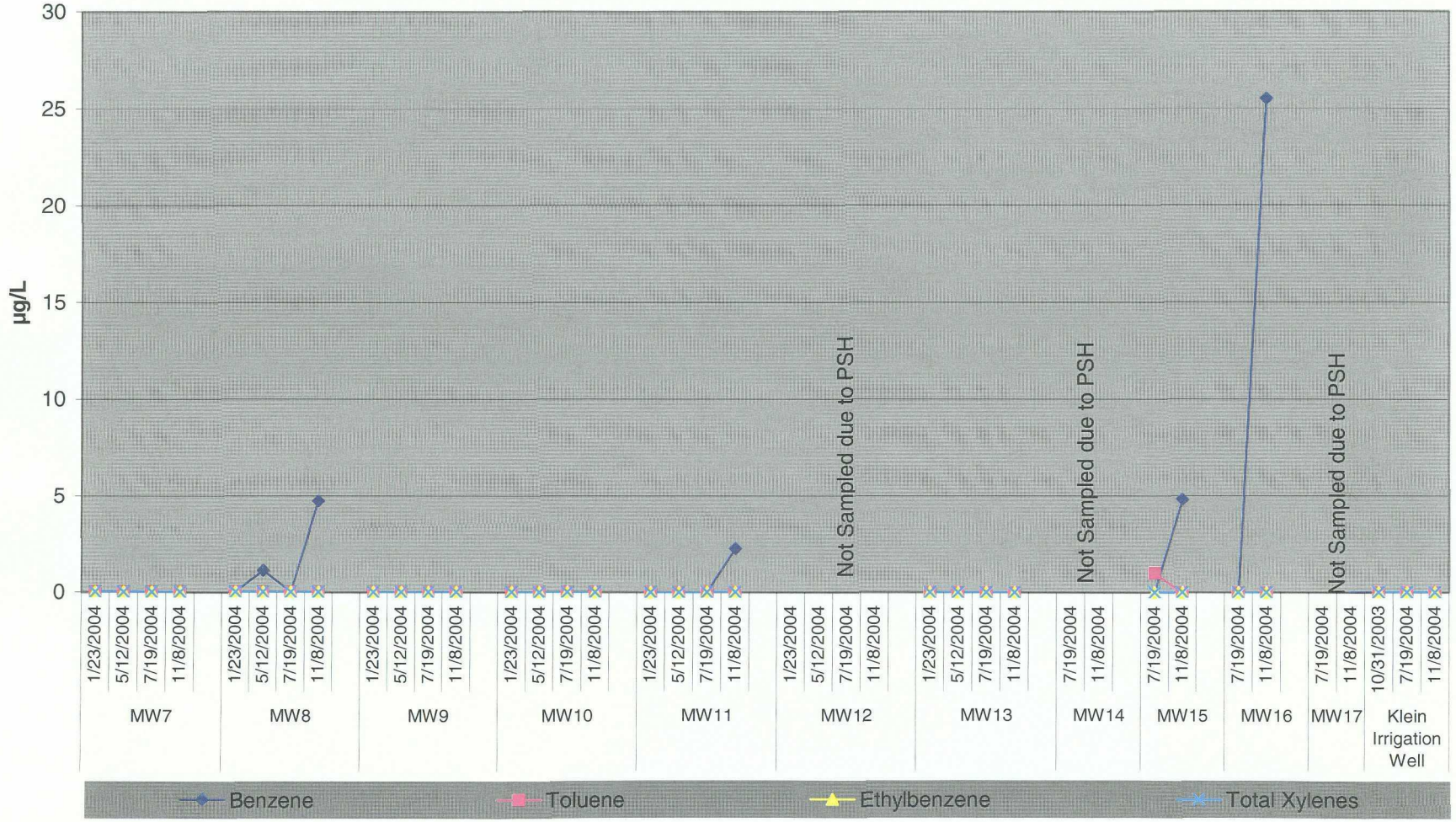
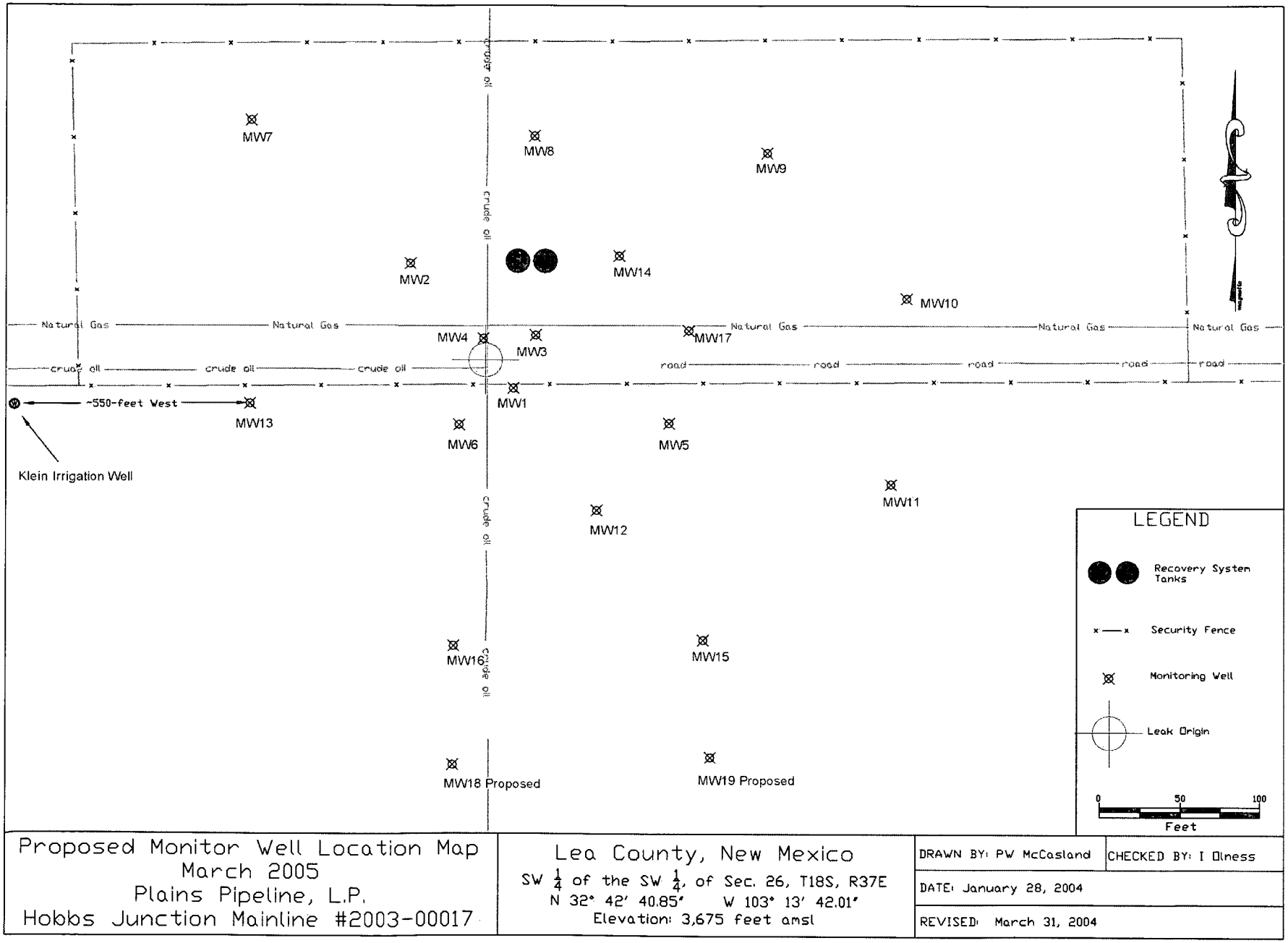


Figure 16 BTEX Concentrations (MW7-MW17 and Klein Irrigation Well)



Proposed Monitor Well Location Map March 2005 Plains Pipeline, L.P. Hobbs Junction Mainline #2003-00017	Lea County, New Mexico SW ¼ of the SW ¼, of Sec. 26, T18S, R37E N 32° 42' 40.85" W 103° 13' 42.01" Elevation: 3,675 feet amsl	DRAWN BY: PW McCasland CHECKED BY: I Olness DATE: January 28, 2004 REVISED: March 31, 2004

Figure 17 Proposed Monitor Well Location Map

TABLES

Table 1 Groundwater and PSH Levels and PSH Thicknesses

Plains Pipeline, L.P. Hobbs Junction Mainline #2003-00017 Groundwater and PSH Levels						
Monitoring Well	Date Gauged	Top of Casing Elevation 'amsl	Depth to PSH 'btoc	Depth to Water 'btoc	Corrected Groundwater Elevation 'amsl	Phase Separated Hydrocarbon (PSH) Thickness feet
MW1	6/23/2003	3678.50	38.49	45.43	3626.82	6.94
	6/25/2003		38.48	45.43	3626.82	6.95
	7/1/2003		36.64	48.25	3619.80	11.61
	7/7/2003		38.73	45.55	3626.81	6.82
	7/22/2003		37.32	48.05	3620.79	10.73
	7/23/2003		37.33	48.06	3620.78	10.73
	7/24/2003		37.40	47.90	3621.15	10.50
	7/30/2003		37.41	47.90	3621.16	10.49
	10/13/2003		36.81	47.34	3621.68	10.53
	12/11/2003		37.79	46.85	3623.50	9.06
	12/15/2003		37.75	46.77	3623.61	9.02
	2/18/2004		38.42	47.64	3622.56	9.22
	3/29/2004		37.45	45.35	3626.04	7.90
	4/29/2004		38.26	42.18	3632.79	3.92
	5/3/2004		37.44	46.11	3624.59	8.67
	7/12/2004		38.34	45.66	3626.25	7.32
	12/9/2004		35.90	43.54	3628.08	7.64
	2/16/2005		35.15	42.54	3629.31	7.39
MW2	6/26/2003	3679.47	38.72	44.93	3628.95	6.21
	7/1/2003		38.65	45.42	3627.96	6.77
	7/22/2003		38.63	45.63	3627.54	7.00
	7/23/2003		38.64	45.63	3627.55	6.99
	7/24/2003		39.20	43.57	3631.97	4.37
	7/30/2003		39.21	43.58	3631.96	4.37
	12/11/2003		38.88	45.51	3627.99	6.63
	12/15/2003		38.84	45.41	3628.15	6.57
	3/23/2004		38.36	44.52	3629.41	6.16
	3/29/2004		38.47	44.04	3630.42	5.57
	4/29/2004		38.16	48.06	3622.50	9.90
	5/3/2004		38.39	44.27	3629.91	5.88
	7/12/2004		39.42	44.67	3630.08	5.25
	12/9/2004		37.00	42.52	3631.98	5.52
	2/16/2005		36.87	44.03	3629.00	7.16

Plains Pipeline, L.P. Hobbs Junction Mainline #2003-00017 Groundwater and PSH Levels						
Monitoring Well	Date Gauged	Top of Casing Elevation 'amsl	Depth to PSH 'btoc	Depth to Water 'btoc	Corrected Groundwater Elevation 'amsl	Phase Separated Hydrocarbon (PSH) Thickness feet
MW3	10/13/2003	3679.81	39.21	48.75	3622.47	9.54
	12/11/2003		39.15	48.95	3622.04	9.80
	12/15/2003		39.08	50.91	3618.25	11.83
	2/18/2004		38.72	48.26	3622.96	9.54
	3/12/2004		39.82	48.49	3623.52	8.67
	3/29/2004		38.81	46.32	3626.73	7.51
	4/29/2004		39.49	44.11	3631.54	4.62
	5/3/2004		38.77	46.51	3626.33	7.74
	7/12/2004		39.68	46.81	3626.58	7.13
	12/9/2004		37.21	45.06	3627.69	7.85
	2/16/2005		36.70	42.67	3631.77	5.97
MW4	10/13/2003	3679.64	39.01	48.75	3622.12	9.74
	12/11/2003		38.92	47.32	3624.76	8.40
	12/15/2003		38.84	47.16	3624.99	8.32
	2/18/2004		38.48	46.62	3625.69	8.14
	3/12/2004		39.09	47.51	3624.55	8.42
	3/29/2004		38.59	45.62	3627.69	7.03
	4/29/2004		39.94	44.23	3631.55	4.29
	5/3/2004		38.55	46.33	3626.31	7.78
	7/12/2004		39.49	46.24	3627.33	6.75
	12/9/2004		37.03	44.15	3629.08	7.12
	2/16/2005		36.28	43.01	3630.57	6.73
MW5	10/13/2003	3679.26	40.35	43.02	3633.84	2.67
	12/11/2003		38.95	47.81	3623.48	8.86
	12/15/2003		38.91	47.72	3623.61	8.81
	2/18/2004		38.61	47.44	3623.87	8.83
	3/29/2004		38.76	46.15	3626.46	7.39
	4/29/2004		38.55	47.41	3623.88	8.86
	5/3/2004		38.52	47.46	3623.75	8.94
	7/12/2004		39.24	47.72	3623.91	8.48
	12/9/2004		36.99	45.01	3627.03	8.02
	2/16/2005		36.24	44.48	3627.36	8.24
	2/22/2005		36.20	44.50	3627.29	8.30

Plains Pipeline, L.P. Hobbs Junction Mainline #2003-00017 Groundwater and PSH Levels						
Monitoring Well	Date Gauged	Top of Casing Elevation 'amsl	Depth to PSH 'btoc	Depth to Water 'btoc	Corrected Groundwater Elevation 'amsl	Phase Separated Hydrocarbon (PSH) Thickness feet
MW6	10/13/2003	3680.63	40.04	50.12	3621.44	10.08
	12/11/2003		40.01	48.43	3624.62	8.42
	12/15/2003		39.92	48.33	3624.73	8.41
	2/18/2004		39.63	47.81	3625.46	8.18
	3/12/2004		39.68	47.51	3626.07	7.83
	3/29/2004		39.67	46.50	3627.98	6.83
	4/29/2004		40.18	44.76	3631.75	4.58
	5/3/2004		39.66	46.63	3627.73	6.97
	7/12/2004		40.52	47.68	3626.51	7.16
	12/9/2004		38.11	45.06	3629.32	6.95
	2/16/2005		36.25	44.44	3628.82	8.19
	2/22/2005		37.25	44.44	3629.72	7.19
MW7	1/23/2004	3679.85	nd	39.64	3640.21	na
	4/29/2004		nd	39.29	3640.56	na
	5/12/2004		nd	39.29	3640.56	na
	6/3/2004		nd	39.27	3640.58	na
	7/12/2004		nd	40.42	3639.43	na
	7/19/2004		nd	40.68	3639.17	na
	11/8/2004		nd	38.66	3641.19	na
MW8	1/23/2004	3679.07	nd	39.56	3639.51	na
	4/29/2004		nd	39.33	3639.74	na
	5/12/2004		nd	39.34	3639.73	na
	6/3/2004		nd	39.32	3639.75	na
	7/12/2004		nd	40.13	3638.94	na
	7/19/2004		nd	40.32	3638.75	na
	11/8/2004		nd	39.60	3639.47	na
MW9	1/23/2004	3678.76	nd	39.91	3638.85	na
	4/29/2004		nd	39.68	3639.08	na
	5/12/2004		nd	39.69	3639.07	na
	6/3/2004		nd	39.67	3639.09	na
	7/12/2004		nd	40.34	3638.42	na
	7/19/2004		nd	40.44	3638.32	na
	11/8/2004		nd	38.84	3639.92	na

Plains Pipeline, L.P. Hobbs Junction Mainline #2003-00017 Groundwater and PSH Levels						
Monitoring Well	Date Gauged	Top of Casing Elevation 'amsl	Depth to PSH 'btoc	Depth to Water 'btoc	Corrected Groundwater Elevation 'amsl	Phase Separated Hydrocarbon (PSH) Thickness feet
MW10	1/23/2004	3678.36	nd	39.89	3638.47	na
	4/29/2004		nd	39.74	3638.62	na
	5/12/2004		nd	39.74	3638.62	na
	6/3/2004		nd	39.74	3638.62	na
	7/12/2004		nd	40.24	3638.12	na
	7/19/2004		nd	40.33	3638.03	na
	11/8/2004		nd	38.76	3639.60	na
MW11	1/23/2004	3678.03	nd	41.40	3636.63	na
	4/29/2004		nd	41.07	3636.96	na
	5/12/2004		nd	39.57	3638.46	na
	6/3/2004		nd	39.61	3638.42	na
	7/12/2004		nd	40.04	3637.99	na
	7/19/2004		nd	40.10	3637.93	na
	11/8/2004		nd	38.66	3639.37	na
MW12	1/23/2004	3679.63	39.49	45.30	3629.10	5.81
	3/23/2004		38.89	47.39	3624.59	8.50
	3/29/2004		38.86	47.33	3624.68	8.47
	4/29/2004		38.86	48.57	3622.32	9.71
	5/3/2004		38.83	46.63	3625.98	7.80
	7/12/2004		39.58	47.53	3624.95	7.95
	12/9/2004		37.50	44.28	3629.25	6.78
	2/16/2005		36.68	43.87	3629.29	7.19
MW13	1/23/2004	3681.42	nd	39.67	3641.75	na
	4/29/2004		nd	39.58	3641.84	na
	5/12/2004		nd	41.05	3640.37	na
	6/3/2004		nd	41.05	3640.37	na
	7/12/2004		nd	42.18	3639.24	na
	7/19/2004		nd	42.44	3638.98	na
	11/8/2004		nd	40.24	3641.18	na
MW14	6/3/2004	3679.00	39.16	42.87	3632.79	3.71
	7/12/2004		39.29	46.46	3626.09	7.17
	7/19/2004		39.45	46.59	3625.98	7.14
	8/26/2004		38.92	45.94	3626.74	7.02
	12/9/2004		37.11	43.08	3630.55	5.97
	2/16/2005		36.62	42.53	3631.15	5.91

Plains Pipeline, L.P. Hobbs Junction Mainline #2003-00017 Groundwater and PSH Levels						
Monitoring Well	Date Gauged	Top of Casing Elevation 'amsl	Depth to PSH 'btoc	Depth to Water 'btoc	Corrected Groundwater Elevation 'amsl	Phase Separated Hydrocarbon (PSH) Thickness feet
MW15	6/3/2004	3674.92	nd	36.22	3638.70	na
	7/12/2004		nd	36.77	3638.15	na
	7/19/2004		nd	36.90	3638.02	na
	11/8/2004		nd	35.10	3639.82	na
MW16	6/3/2004	3676.86	nd	37.66	3639.20	na
	7/12/2004		nd	38.35	3638.51	na
	7/19/2004		nd	38.57	3638.29	na
	11/8/2004		nd	36.38	3640.48	na
MW17	6/3/2004	3679.01	39.66	42.05	3634.81	2.39
	7/12/2004		39.39	46.94	3625.28	7.55
	7/19/2004		39.50	46.97	3625.32	7.47
	8/26/2004		39.04	46.59	3625.63	7.55
	12/9/2004		37.11	44.60	3627.67	7.49
	2/16/2005		37.00	41.07	3634.28	4.07
Klein Irrigation Well	10/31/2003	na				na
	7/19/2004	na				na
	11/8/2004	na				na

PSH - Phase Separated Hydrocarbon
ns - not sampled
'btoc - feet below top of casing
nd - not detected
na - not applicable

Table 2 Phase Separated Hydrocarbon Declination Table

Plains Pipeline, L.P. Hobbs Junction Mainline #2003-00017 Phase Separated Hydrocarbon (PSH) Declination Table			
Monitoring Well	Period	Average PSH Thickness	Decline
		feet	feet
MW1	2003	9.40	
	2004	7.45	-1.95
MW2	2003	6.39	
	2004	6.38	-0.01
MW3	2003	10.39	
	2004	7.58	-2.81
MW4	2003	8.82	
	2004	7.08	-1.74
MW5	2003	8.84	
	2004	8.42	-0.42
MW6	2003	8.97	
	2004	6.93	-2.04
MW7		not impacted	
MW8		not impacted	
MW9		not impacted	
MW10		not impacted	
MW11		not impacted	
MW12	3/23/2004	8.50	
	12/9/2004	6.78	-1.72
MW13		not impacted	
MW14	7/12/2004	7.17	
	12/9/2004	5.97	-1.20
MW15		not impacted	
MW16		not impacted	
MW17	7/12/2004	7.55	
	12/9/2004	7.49	-0.06

Table 3 Summary of BTEX Analytical Results

Plains All American Pipeline Hobbs Junction Mainline #2003-00017 Groundwater Monitoring Analytical Results										
Monitoring Well	Sample Date	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	m,p-Xylenes µg/L	o-Xylene µg/L	Total Xylenes µg/L	MTBE µg/L	TPH GRO mg/L	TPH DRO mg/L
MW1	1/23/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
	5/12/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
	7/19/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
	11/8/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
MW2	1/23/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
	5/12/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
	7/19/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
	11/8/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
MW3	1/23/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
	5/12/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
	7/19/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
	11/8/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
MW4	1/23/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
	5/12/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
	7/19/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
	11/8/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
MW5	1/23/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
	5/12/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
	7/19/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
	11/8/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
MW6	1/23/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
	5/12/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
	7/19/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
	11/8/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
MW7	1/23/2004	<1	<1	<1	<2	<1	<2			
	5/12/2004	<1	<1	<1	<2	<1	<2			
	7/19/2004	<1	<1	<1	<2	<1	<2			
	11/8/2004	<1	<1	<1	<2	<1	<2	<5		
MW8	1/23/2004	<1	<1	<1	<2	<1	<2			
	5/12/2004	1.10	<1	<1	<2	<1	<2			
	7/19/2004	<1	<1	<1	<2	<1	<2			
	11/8/2004	4.71	<1	<1	<2	<1	<2			
MW9	1/23/2004	<1	<1	<1	<2	<1	<2			
	5/12/2004	<1	<1	<1	<2	<1	<2			
	7/19/2004	<1	<1	<1	<2	<1	<2			
	11/8/2004	<1	<1	<1	<2	<1	<2			

Plains All American Pipeline Hobbs Junction Mainline #2003-00017 Groundwater Monitoring Analytical Results										
Monitoring Well	Sample Date	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	m,p-Xylenes µg/L	o-Xylene µg/L	Total Xylenes µg/L	MTBE µg/L	TPH GRO mg/L	TPH DRO mg/L
MW10	1/23/2004	<1	<1	<1	<2	<1	<2			
	5/12/2004	<1	<1	<1	<2	<1	<2			
	7/19/2004	<1	<1	<1	<2	<1	<2			
	11/8/2004	<1	<1	<1	<2	<1	<2			
MW11	1/23/2004	<1	<1	<1	<2	<1	<2			
	5/12/2004	<1	<1	<1	<2	<1	<2			
	7/19/2004	<1	<1	<1	<2	<1	<2			
	11/8/2004	2.25	<1	<1	<2	<1	<2			
MW12	1/23/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
	5/12/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
	7/19/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
	11/8/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
MW13	1/23/2004	<1	<1	<1	<2	<1	<2			
	5/12/2004	<1	<1	<1	<2	<1	<2			
	7/19/2004	<1	<1	<1	<2	<1	<2			
	11/8/2004	<1	<1	<1	<2	<1	<2			
MW14	7/19/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
	11/8/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
MW15	7/19/2004	<1	1.01	<1	<2	<1	<2			
	11/8/2004	4.82	<1	<1	<2	<1	<2			
MW16	7/19/2004	<1	<1	<1	<2	<1	<2			
	11/8/2004	25.50	<1	<1	<2	<1	<2			
MW17	7/19/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
	11/8/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon								
Klein Irrigation Well	10/31/2003	<1	<1	<1	<2	<1	<2			
	7/19/2004	--	--	--	--	--	--	--	--	--
	11/8/2004	<1	<1	<1	<2	<1	<2			
NMWQCC Standards		10	750	750			620			

PSH - Phase Separated Hydrocarbon
µg/L - micrograms per Liter
mg/L - milligrams per liter
GRO - Gasoline Range Organics
DRO - Diesel Range Organics

< - denotes method detection limit
Blank cells indicate that analyses was not performed.
Bolded results are above the NMWQCC Standards for drinking water
NMWQCC - New Mexico Water Quality Control Commission

Table 4 Summary of Groundwater PAH Analytical Results

Summary of Groundwater Polynuclear-Aromatic Hydrocarbons (PAH) Analytical Results
Plains Hobbs Junction Mainline - Ref #2003-00017

EPA SW846-8270C, 3510

Monitor Well Location	Date	Naphthalene (µg/L)	Acenaphthylene (µg/L)	Acenaphthene (µg/L)	Flourene (µg/L)	Phenanthrene (µg/L)	Anthracene (µg/L)	Fluoranthene (µg/L)	Pyrene (µg/L)	Benzo[a]-anthracene (µg/L)	Chrysene (µg/L)	Benzo[b]-fluoranthene (µg/L)	Benzo[j,k]-fluoranthene (µg/L)	Benzo[a]-pyrene (µg/L)	Indeno[1,2,3-cd]-pyrene (µg/L)	Dibenz[a,h]-anthracene (µg/L)	Benzo[g,h,i]-perylene (µg/L)
MW1	1/23/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon															
	7/19/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon															
	11/8/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon															
MW2	1/23/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon															
	7/19/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon															
	11/8/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon															
MW3	1/23/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon															
	7/19/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon															
	11/8/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon															
MW4	1/23/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon															
	7/19/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon															
	11/8/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon															
MW5	1/23/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon															
	7/19/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon															
	11/8/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon															
MW6	1/23/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon															
	7/19/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon															
	11/8/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon															
MW7	1/23/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/19/2004	<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
	11/8/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW8	1/23/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/19/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/8/2004	<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
MW9	1/23/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/19/2004	<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
	11/8/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Summary of Groundwater Polynuclear-Aromatic Hydrocarbons (PAH) Analytical Results
Plains Hobbs Junction Mainline - Ref #2003-00017

EPA SW846-8270C, 3510

Monitor Well Location	Date	Naphthalene (µg/L)	Acenaphthylene (µg/L)	Acenaphthene (µg/L)	Flourene (µg/L)	Phenanthrene (µg/L)	Anthracene (µg/L)	Fluoranthene (µg/L)	Pyrene (µg/L)	Benzo[a]-anthracene (µg/L)	Chrysene (µg/L)	Benzo[b]-fluoranthene (µg/L)	Benzo[j,k]-fluoranthene (µg/L)	Benzo[a]-pyrene (µg/L)	Indeno[1,2,3-cd]-pyrene (µg/L)	Dibenz[a,h]-anthracene (µg/L)	Benzo[g,h,i]-perylene (µg/L)
MW10	1/23/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/19/2004	<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
	11/8/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW11	1/23/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/19/2004	<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
	11/8/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW12	1/23/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon															
	7/19/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon															
	11/8/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon															
MW13	1/23/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/19/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/8/2004	<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
MW14	7/19/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon															
	11/8/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon															
MW15	7/19/2004	0.051	<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
	11/8/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW16	7/19/2004	<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
	11/8/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW17	7/19/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon															
	11/8/2004	Not sampled Due to the Presence of Phase Separated Hydrocarbon															
Klein Irrigation Well	10/31/2003	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	7/19/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	11/8/2004	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
NMOCD Remedial Thresholds		30												0.70			

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

-- = Parameter was not analyzedd

Table 5 Monitor Well Sampling Schedule for 2005

Plains Pipeline, L.P. Hobbs Junction Mainline #2003-00017 Monitor Well Sampling Schedule for 2005						
Monitoring Well	Eight Quarters Below NMOCD Standards	2005 Sampling Schedule				Notes
		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
MW1	No	--	--	--	--	Continue PSH recovery
MW2	No	--	--	--	--	Continue PSH recovery
MW3	No	--	--	--	--	Continue PSH recovery
MW4	No	--	--	--	--	Continue PSH recovery
MW5	No	--	--	--	--	Continue PSH recovery
MW6	No	--	--	--	--	Continue PSH recovery
MW7	No	X	X	X	X	Recommend Annual PAH analysis
MW8	No	X	X	X	X	Recommend Annual PAH analysis
MW9	No	X	X	X	X	Recommend Annual PAH analysis
MW10	No	X	X	X	X	Recommend Annual PAH analysis
MW11	No	X	X	X	X	Recommend Annual PAH analysis
MW12	No	--	--	--	--	Continue PSH recovery
MW13	No	X	X	X	X	Recommend Annual PAH analysis
MW14	No	--	--	--	--	Continue PSH recovery
MW15	No	X	X	X	X	Recommend Annual PAH analysis
MW16	No	X	X	X	X	Recommend Annual PAH analysis
MW17	No	--	--	--	--	Continue PSH recovery
MW18	No	--	X-install	X	X	Continue PSH recovery
MW19	No	--	X-install	X	X	Continue PSH recovery
Klein Irrigation Well	No	X				Recommend Annual PAH analysis

NMOCD - New Mexico Oil Conservation Division
PAH - Polynuclear Aromatic Hydrocarbons
PSH - Phase Separated Hydrocarbons

APPENDIX

Laboratory Reports

ANALYSYS INC.

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

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

Report#/Lab ID#: 152322 **Report Date:** 02/03/04
Project ID: 2003-00017
Sample Name: WLEHM12304PMW7
Sample Matrix: water
Date Received: 01/30/2004 **Time:** 09:50
Date Sampled: 01/23/2004 **Time:** 08:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		02/02/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/02/04	8260b	---	2.8	113.4	110.5	103.7
Ethylbenzene	<1	µg/L	1	<1	02/02/04	8260b	---	3.1	108	110	103.1
m,p-Xylenes	<2	µg/L	2	<2	02/02/04	8260b	---	2.9	110.5	110.6	105.2
o-Xylene	<1	µg/L	1	<1	02/02/04	8260b	---	2	110.6	110.8	105
Toluene	<1	µg/L	1	<1	02/02/04	8260b	---	1.7	118.2	114.9	110.9

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

Respectfully Submitted,

Richard Elton

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ANALYSYS INC.

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

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2003-00017 **Sample Name:** WLEHM12304PMW7	**Report#/Lab ID#:** 152322 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	103	74-124	---
Toluene-d8	8260b	99.8	89-115	---

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

ANALYSYS INC.

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

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

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

Report#/Lab ID#: 152323 **Report Date:** 02/03/04
Project ID: 2003-00017
Sample Name: WLEHM12304PMW8
Sample Matrix: water
Date Received: 01/30/2004 **Time:** 09:50
Date Sampled: 01/23/2004 **Time:** 08:55

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		02/02/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/02/04	8260b	---	11.1	94	87.1	88
Ethylbenzene	<1	µg/L	1	<1	02/02/04	8260b	---	4.2	124.6	120	118.2
m,p-Xylenes	<2	µg/L	2	<2	02/02/04	8260b	---	3.2	124.5	117.8	120.4
o-Xylene	<1	µg/L	1	<1	02/02/04	8260b	---	4.2	126.4	119.7	120.8
Toluene	<1	µg/L	1	<1	02/02/04	8260b	---	11.6	96.1	86.1	90.7

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

Respectfully Submitted,

Richard Elton

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ANALYSYS INC.

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

Client: Environmental Plus, Inc.	**Project ID:** 2003-00017	**Report#/Lab ID#:** 152323
Attn: Pat McCasland	**Sample Name:** WLEHM12304PMW8	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	99	74-124	---
Toluene-d8	8260b	109	89-115	---

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

ANALYSYS INC.

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

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

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

Report#/Lab ID#: 152324 **Report Date:** 02/03/04
Project ID: 2003-00017
Sample Name: WLEHM12304PMW9
Sample Matrix: water
Date Received: 01/30/2004 **Time:** 09:50
Date Sampled: 01/23/2004 **Time:** 09:25

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		02/02/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/02/04	8260b	---	11.1	94	87.1	88
Ethylbenzene	<1	µg/L	1	<1	02/02/04	8260b	---	4.2	124.6	120	118.2
m,p-Xylenes	<2	µg/L	2	<2	02/02/04	8260b	---	3.2	124.5	117.8	120.4
o-Xylene	<1	µg/L	1	<1	02/02/04	8260b	---	4.2	126.4	119.7	120.8
Toluene	<1	µg/L	1	<1	02/02/04	8260b	---	11.6	96.1	86.1	90.7

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Richard Elton

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2003-00017 **Sample Name:** WLEHM12304PMW9	**Report#/Lab ID#:** 152324 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	98.4	74-124	---
Toluene-d8	8260b	107	89-115	---

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

AnalySys Inc.

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(512) 385-5886 • FAX (512) 385-7411

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

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

Report#/Lab ID#: 152325 **Report Date:** 02/03/04
Project ID: 2003-00017
Sample Name: WLEHM12304PMW10
Sample Matrix: water
Date Received: 01/30/2004 **Time:** 09:50
Date Sampled: 01/23/2004 **Time:** 09:55

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		02/02/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/02/04	8260b	---	11.1	94	87.1	88
Ethylbenzene	<1	µg/L	1	<1	02/02/04	8260b	---	4.2	124.6	120	118.2
m,p-Xylenes	<2	µg/L	2	<2	02/02/04	8260b	---	3.2	124.5	117.8	120.4
o-Xylene	<1	µg/L	1	<1	02/02/04	8260b	---	4.2	126.4	119.7	120.8
Toluene	<1	µg/L	1	<1	02/02/04	8260b	---	11.6	96.1	86.1	90.7

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2003-00017 **Sample Name:** WLEHM12304PMW10	**Report#/Lab ID#:** 152325 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	95.2	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: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

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

Report#/Lab ID#: 152326 **Report Date:** 02/03/04
Project ID: 2003-00017
Sample Name: WLEHM12304PMW11
Sample Matrix: water
Date Received: 01/30/2004 **Time:** 09:50
Date Sampled: 01/23/2004 **Time:** 10:25

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		02/02/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/02/04	8260b	---	11.1	94	87.1	88
Ethylbenzene	<1	µg/L	1	<1	02/02/04	8260b	---	4.2	124.6	120	118.2
m,p-Xylenes	<2	µg/L	2	<2	02/02/04	8260b	---	3.2	124.5	117.8	120.4
o-Xylene	<1	µg/L	1	<1	02/02/04	8260b	---	4.2	126.4	119.7	120.8
Toluene	<1	µg/L	1	<1	02/02/04	8260b	---	11.6	96.1	86.1	90.7

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc. **Attn:** Pat McCasland	**Project ID:** 2003-00017 **Sample Name:** WLEHM12304PMW11	**Report#/Lab ID#:** 152326 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	97	74-124	---
Toluene-d8	8260b	108	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: Pat McCasland
Address: 2100 Ave. O
Eunice NM 88231

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

Report#/Lab ID#: 152327 **Report Date:** 02/03/04
Project ID: 2003-00017
Sample Name: WLEHM12304PW12
Sample Matrix: water
Date Received: 01/30/2004 **Time:** 09:50
Date Sampled: 01/23/2004 **Time:** 11:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		02/02/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/02/04	8260b	---	11.1	94	87.1	88
Ethylbenzene	<1	µg/L	1	<1	02/02/04	8260b	---	4.2	124.6	120	118.2
m,p-Xylenes	<2	µg/L	2	<2	02/02/04	8260b	---	3.2	124.5	117.8	120.4
o-Xylene	<1	µg/L	1	<1	02/02/04	8260b	---	4.2	126.4	119.7	120.8
Toluene	<1	µg/L	1	<1	02/02/04	8260b	---	11.6	96.1	86.1	90.7

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2003-00017	**Report#/Lab ID#:** 152327
Attn: Pat McCasland	**Sample Name:** WLEHM12304PW12	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	98.1	74-124	---
Toluene-d8	8260b	108	89-115	---

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

AnalySys
4221 Freidrich Lane, Suite 190, Austin, TX 78744
(512) 444-5896

Send Reports To:
Company Name Environmental Plus
Address 2100 Ave O
City Eunice State N.M Zip 88231
ATTN: Pat McCasland
Phone 505-394-2601 Fax 505-394-2601

Bill to (if different)
Company Name Link Energy
Address 2100 Ave O
City Eunice State N.M Zip 88231
ATTN: Frank Hernandez
Phone 505-631-3095 Fax 505-396-2954

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: 2003-0017 Sampler: Bradley Blevins

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8021	Comments
WLEHM12304PMW7	1-23-04	8:00	2		X		152322	X	
WLEHM12304PMW8	1-23-04	8:55	2		X		152323	X	
WLEHM12304PMW9	1-23-04	9:25	2		X		152324	X	
WLEHM12304PMW10	1-23-04	9:55	2		X		152325	X	
WLEHM12304PMW11	1-23-04	10:25	2		X		152326	X	
WLEHM12304 BW 12	1-23-04	11:30	2		2		152327	2	

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

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Bradley Blevins	EPI	1-29-04	3:00pm	[signature]	ASI	1/30/04	0950

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

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

ent: Environmental Plus, Inc.
n: Iain Olness
dress: 2100 Ave. O
Eunice, NM 88231

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

Report#/Lab ID#: 155754 **Report Date:** 05/21/04
Project ID: 2003-00017 Hobbs Juc. Mainline
Sample Name: LEHJM051204MW7
Sample Matrix: water
Date Received: 05/14/2004 **Time:** 12:35
Date Sampled: 05/12/2004 **Time:** 08:09

PORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

ameter	Result	Units	RQL[5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
atile organics-8260b/BTEX	---		---		05/20/04	8260b(5030/5035)	---	---	---	---	---
nzene	<1	µg/L	1	<1	05/20/04	8260b	---	3.3	97.6	99.9	98.7
ylbenzene	<1	µg/L	1	<1	05/20/04	8260b	---	4.9	108.1	117	111.3
-Xylenes	<2	µg/L	2	<2	05/20/04	8260b	---	7	109.3	118.4	114.9
ylene	<1	µg/L	1	<1	05/20/04	8260b	---	7.1	111.7	118.8	117.2
uene	<1	µg/L	1	<1	05/20/04	8260b	---	10.2	100.1	116.9	107

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INC.
2209 N. Padre Island Dr., Corpus Christi, TX 78408
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ient: Environmental Plus, Inc.	**Project ID:** 2003-00017 Hobbs Juc. Mainline	**Report#/Lab ID#:** 155754
tn: Iain Olness	**Sample Name:** LEHJM051204MW7	**Sample Matrix:** water

PORT OF SURROGATE RECOVERY

rrogate Compound	Method	Recovery	Recovery Limitse	Data Qualifiers
-Dichloroethane-d4	8260b	99.8	74-124	---
luene-d8	8260b	108	89-115	---

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

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ent: Environmental Plus, Inc.
n: Iain Olness
dress: 2100 Ave. O
Eunice, NM 88231
)ne: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 155755 **Report Date:** 05/21/04
Project ID: 2003-00017 Hobbs Juc. Mainline
Sample Name: LEHJM051204MW8
Sample Matrix: water
Date Received: 05/14/2004 **Time:** 12:35
Date Sampled: 05/12/2004 **Time:** 08:59

PORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

ameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
atile organics-8260b/BTEX	---		---		05/21/04	8260b(5030/5035)	---	---	---	---	---
nzene	1.1	µg/L	1	<1	05/21/04	8260b	---	1.1	100.1	100.7	103.5
ylbenzene	<1	µg/L	1	<1	05/21/04	8260b	---	1.4	110.3	112.8	118.7
-Xylenes	<2	µg/L	2	<2	05/21/04	8260b	---	2.6	111.5	111.2	119.8
ylene	<1	µg/L	1	<1	05/21/04	8260b	---	2.8	112.9	111.8	123.8
uene	<1	µg/L	1	<1	05/21/04	8260b	---	6.7	110.6	109.7	111.1

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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

ient: Environmental Plus, Inc.	**Project ID:** 2003-00017 Hobbs Juc. Mainline	**Report#/Lab ID#:** 155755
tn: Iain Olness	**Sample Name:** LEHJM051204MW8	**Sample Matrix:** water

PORT OF SURROGATE RECOVERY

rrogate Compound	Method	Recovery	Recovery Limitse	Data Qualifiers
-Dichloroethane-d4	8260b	102	74-124	---
luene-d8	8260b	109	89-115	---

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

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

ent: Environmental Plus, Inc.
n: Iain Olness
dress: 2100 Ave. O
Eunice, NM 88231
one: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 155756 **Report Date:** 05/21/04
Project ID: 2003-00017 Hobbs Juc. Mainline
Sample Name: LEHJM051204MW9
Sample Matrix: water
Date Received: 05/14/2004 **Time:** 12:35
Date Sampled: 05/12/2004 **Time:** 09:45

PORT OF ANALYSIS **QUALITY ASSURANCE DATA** [1]

ameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
latile organics-8260b/BTEX	---		---		05/20/04	8260b(5030/5035)	---	---	---	---	---
nzene	<1	µg/L	1	<1	05/20/04	8260b	---	2	103.2	96.1	101.4
ylbenzene	<1	µg/L	1	<1	05/20/04	8260b	---	1.5	114.9	111.2	107.9
-Xylenes	<2	µg/L	2	<2	05/20/04	8260b	---	3	117.5	110.9	109.2
ylene	<1	µg/L	1	<1	05/20/04	8260b	---	3.1	119.6	112.8	111.1
uene	<1	µg/L	1	<1	05/20/04	8260b	---	0	106.7	111.7	112.7

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

Respectfully Submitted,

Richard Elton

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(512) 385-5886 • FAX (512) 385-7411

ient: Environmental Plus, Inc.	**Project ID:** 2003-00017 Hobbs Juc. Mainline	**Report#/Lab ID#:** 155756
tn: Iain Olness	**Sample Name:** LEHJM051204MW9	**Sample Matrix:** water

PORT OF SURROGATE RECOVERY

rrogate Compound	Method	Recovery	Recovery Limitse	Data Qualifiers
-Dichloroethane-d4	8260b	96.7	74-124	---
luene-d8	8260b	104	89-115	---

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

AnalySys, Inc.
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ent: Environmental Plus, Inc.
n: Iain Olness
dress: 2100 Ave. O
Eunice, NM 88231

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

Report#/Lab ID#: 155757 **Report Date:** 05/21/04
Project ID: 2003-00017 Hobbs Juc. Mainline
Sample Name: LEHJM051204MW10
Sample Matrix: water
Date Received: 05/14/2004 **Time:** 12:35
Date Sampled: 05/12/2004 **Time:** 10:53

PORT OF ANALYSIS **QUALITY ASSURANCE DATA** [1]

ameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
latile organics-8260b/BTEX	---		---		05/20/04	8260b(5030/5035)	---	---	---	---	---
nzene	<1	µg/L	1	<1	05/20/04	8260b	---	2	103.2	96.1	101.4
ylbenzene	<1	µg/L	1	<1	05/20/04	8260b	---	1.5	114.9	111.2	107.9
)-Xylenes	<2	µg/L	2	<2	05/20/04	8260b	---	3	117.5	110.9	109.2
Cylene	<1	µg/L	1	<1	05/20/04	8260b	---	3.1	119.6	112.8	111.1
uene	<1	µg/L	1	<1	05/20/04	8260b	---	0	106.7	111.7	112.7

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ient: Environmental Plus, Inc.	**Project ID:** 2003-00017 Hobbs Juc. Mainline	**Report#/Lab ID#:** 155757
tn: Iain Olness	**Sample Name:** LEHJM051204MW10	**Sample Matrix:** water

PORT OF SURROGATE RECOVERY

rrogate Compound	Method	Recovery	Recovery Limitse	Data Qualifiers
-Dichloroethane-d4	8260b	103	74-124	---
luene-d8	8260b	105	89-115	---

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

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ent: Environmental Plus, Inc.
n: Iain Olness
dress: 2100 Ave. O
Eunice, NM 88231
)ne: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 155758 **Report Date:** 05/21/04
Project ID: 2003-00017 Hobbs Juc. Mainline
Sample Name: LEHJM051204MW11
Sample Matrix: water
Date Received: 05/14/2004 **Time:** 12:35
Date Sampled: 05/12/2004 **Time:** 12:45

PORT OF ANALYSIS **QUALITY ASSURANCE DATA** [1]

·ameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
latile organics-8260b/BTEX	---		---		05/20/04	8260b(5030/5035)	---	---	---	---	---
ızene	<1	µg/L	1	<1	05/20/04	8260b	J	2	103.2	96.1	101.4
ylbenzene	<1	µg/L	1	<1	05/20/04	8260b	---	1.5	114.9	111.2	107.9
ı-Xylenes	<2	µg/L	2	<2	05/20/04	8260b	---	3	117.5	110.9	109.2
;ylene	<1	µg/L	1	<1	05/20/04	8260b	---	3.1	119.6	112.8	111.1
uene	<1	µg/L	1	<1	05/20/04	8260b	---	0	106.7	111.7	112.7

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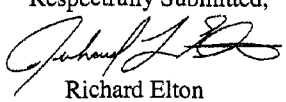
Respectfully Submitted,



Richard Elton

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INC.
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ient: Environmental Plus, Inc.	**Project ID:** 2003-00017 Hobbs Juc. Mainline	**Report#/Lab ID#:** 155758
tn: Iain Olness	**Sample Name:** LEHJM051204MW11	**Sample Matrix:** water

PORT OF SURROGATE RECOVERY

rrogate Compound	Method	Recovery	Recovery Limitse	Data Qualifiers
-Dichloroethane-d4	8260b	107	74-124	---
luene-d8	8260b	106	89-115	---

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

ort #/Lab ID#: 155758 **Matrix:** water
nt: Environmental Plus, Inc. **Attn:** Iain Olness
ect ID: 2003-00017 Hobbs Juc. Mainline
ple Name: LEHJM051204MW11

ple 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).

ple 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.

g Discussion:

lag data qualifier indicates (as required under TCEQ-TRRP reporting requirements) that the raw calculated analyte concentration in the sample (uncorrected for background s/blanks and other potential sources of sampling and analytical contamination), though less than the Reported Quantitation Limit (RQL) is greater than the Detection Limit. use 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 nce 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.)

ments pertaining to Data Qualifiers and QC data:

meter	Qualif	Comment
ne	J	See J-flag discussion above.

s:

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n: Iain Olness
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Eunice, NM 88231
one: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 155759 **Report Date:** 05/21/04
Project ID: 2003-00017 Hobbs Juc. Mainline
Sample Name: LEHJM051204MW13
Sample Matrix: water
Date Received: 05/14/2004 **Time:** 12:35
Date Sampled: 05/12/2004 **Time:** 14:10

PORT OF ANALYSIS **QUALITY ASSURANCE DATA** [1]

ameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
latile organics-8260b/BTEX	---		---		05/20/04	8260b(5030/5035)	---	---	---	---	---
nzene	<1	µg/L	1	<1	05/20/04	8260b	---	2	103.2	96.1	101.4
ylbenzene	<1	µg/L	1	<1	05/20/04	8260b	---	1.5	114.9	111.2	107.9
o-Xylenes	<2	µg/L	2	<2	05/20/04	8260b	---	3	117.5	110.9	109.2
Xylene	<1	µg/L	1	<1	05/20/04	8260b	---	3.1	119.6	112.8	111.1
uene	<1	µg/L	1	<1	05/20/04	8260b	---	0	106.7	111.7	112.7

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INC.
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ient:	Environmental Plus, Inc.	**Project ID:**	2003-00017 Hobbs Juc. Mainline	**Report#/Lab ID#:**	155759
tn:	Iain Olness	**Sample Name:**	LEHJM051204MW13	**Sample Matrix:**	water

PORT OF SURROGATE RECOVERY

rrogate Compound	Method	Recovery	Recovery Limitse	Data Qualifiers
-Dichloroethane-d4	8260b	103	74-124	---
luene-d8	8260b	106	89-115	---

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

AnalySys Inc.

Chain of Custody Form

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

Company Name	Environmental Plus, Inc.
EPI Project Manager	Iain Olness
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	505-394-3481 / 505-394-2601
Client Company	Plains All American
Facility Name	Hobbs Junction Mainline
Project Reference	2003-00017
EPI Sampler Name	Manuel Gonzales

BILL TO

LinkEnergy
Attn: Jimmy Bryant
PO Box 1660,
Midland, TX 79701

ANALYSIS REQUEST

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES ($SO_4^{=}$)	pH	TCLP	OTHER >>>	PAH				
155754 1	LEHJM051204MW7	G	2	X						X	X		12-May	8:09	X											
155755 2	LEHJM051204MW8	G	2	X						X	X		12-May	8:59	X											
155756 3	LEHJM051204MW9	G	2	X						X	X		12-May	9:45	X											
155757 4	LEHJM051204MW10	G	2	X						X	X		12-May	10:53	X											
155758 5	LEHJM051204MW11	G	2	X						X	X		12-May	12:45	X											
155759 6	LEHJM051204MW13	G	2	X						X	X		12-May	14:10	X											
7																										
8																										
9																										
10																										

Sampler Relinquished: Manuel Gonzales	Date 5/14 Time	Received By: E. Zamora ASI. 5-14-04 12:35
Relinquished by:	Date Time	Received By: (lab staff)
Delivered by:	Sample Cool & Intact Yes No	Checked By:

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

T: 4.2°C

EPI Form "Analysis Analytical Chain of Custody"

ANALYSYS INC.
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#: 157759 **Report Date:** 08/06/04
Project ID: 2003-00017
Sample Name: LEHJM071904MW7
Sample Matrix: water
Date Received: 07/21/2004 **Time:** 09:40
Date Sampled: 07/19/2004 **Time:** 09:04

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
A/BN Extraction-PAH	---	---	---	---	07/22/04	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	08/04/04	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---		---		07/22/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	07/22/04	8260b	---	0.3	106.7	112.1	99.1
Ethylbenzene	<1	µg/L	1	<1	07/22/04	8260b	---	4	108.1	110.8	104.8
m,p-Xylenes	<2	µg/L	2	<2	07/22/04	8260b	---	4.7	109.5	111.6	108
o-Xylene	<1	µg/L	1	<1	07/22/04	8260b	---	2.6	115.2	114.7	110.3
Toluene	<1	µg/L	1	<1	07/22/04	8260b	---	1.5	114.8	118.8	107.4
Acenaphthene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	12.2	55.8	95.4	57.3
Acenaphthylene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	15.7	50	89.7	50.4
Anthracene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	2.8	61.9	98.5	62.9
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	5.9	79.3	114.3	83.3
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	12.4	70.4	98.4	72.3
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	3.4	94.4	118.7	103.1
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	4.8	95.2	118.6	100.4
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	8	72.3	102.3	72.9
Chrysene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	1.4	64.1	97.9	68.5
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	4.9	81	110.9	84.5
Fluoranthene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	6.6	69.4	97.3	66.9
Fluorene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	6.1	56.6	95.9	57.9
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	11.9	95.7	118.4	99.7

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

Client: Environmental Plus, Inc.	**Project ID:** 2003-00017	**Report#/Lab ID#:** 157759
Attn: Iain Olness	**Sample Name:** LEHJM071904MW7	**Sample Matrix:** water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Naphthalene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	17.5	46	92	47.3
Phenanthrene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	2.1	62	97.7	63.4
Pyrene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	3.8	61.2	94.7	63.8

ANALYSYS INC.
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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2003-00017	**Report#/Lab ID#:** 157759
Attn: Iain Olness	**Sample Name:** LEHJM071904MW7	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl	610 & 8270c	49	39-110	---
Nitrobenzene-d5	610 & 8270c	52.2	12-110	---
Terphenyl-d14	610 & 8270c	49.5	25-110	---
1,2-Dichloroethane-d4	8260b	112	74-124	---
Toluene-d8	8260b	101	89-115	---

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

ANALYSYS INC.
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(512) 385-5886 • FAX (512) 385-7411

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

Report#/Lab ID#: 157760 **Report Date:** 08/06/04
Project ID: 2003-00017
Sample Name: LEHJM071904MW8
Sample Matrix: water
Date Received: 07/21/2004 **Time:** 09:40
Date Sampled: 07/19/2004 **Time:** 10:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		07/22/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	07/22/04	8260b	---	0.3	106.7	112.1	99.1
Ethylbenzene	<1	µg/L	1	<1	07/22/04	8260b	---	4	108.1	110.8	104.8
m,p-Xylenes	<2	µg/L	2	<2	07/22/04	8260b	---	4.7	109.5	111.6	108
o-Xylene	<1	µg/L	1	<1	07/22/04	8260b	---	2.6	115.2	114.7	110.3
Toluene	<1	µg/L	1	<1	07/22/04	8260b	---	1.5	114.8	118.8	107.4

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

Respectfully Submitted,

Richard Elton

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

ANALYSYS INC.
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Client: Environmental Plus, Inc.	**Project ID:** 2003-00017	**Report#/Lab ID#:** 157760
Attn: Iain Olness	**Sample Name:** LEHJM071904MW8	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	98	74-124	---
Toluene-d8	8260b	106	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#: 157761 **Report Date:** 08/06/04
Project ID: 2003-00017
Sample Name: LEHJM071904MW9
Sample Matrix: water
Date Received: 07/21/2004 **Time:** 09:40
Date Sampled: 07/19/2004 **Time:** 11:32

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
A/BN Extraction-PAH	---	---	---	---	07/22/04	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	07/30/04	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---		---		07/22/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	07/22/04	8260b	---	0.3	106.7	112.1	99.1
Ethylbenzene	<1	µg/L	1	<1	07/22/04	8260b	---	4	108.1	110.8	104.8
m,p-Xylenes	<2	µg/L	2	<2	07/22/04	8260b	---	4.7	109.5	111.6	108
o-Xylene	<1	µg/L	1	<1	07/22/04	8260b	---	2.6	115.2	114.7	110.3
Toluene	<1	µg/L	1	<1	07/22/04	8260b	---	1.5	114.8	118.8	107.4
Acenaphthene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	P	51.7	59.2	100.1	51.5
Acenaphthylene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	P	53.1	59.1	109.8	51.7
Anthracene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	P	28.8	66.7	103.2	54.3
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	P	21.6	84.4	87.9	71.9
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	---	18.2	71.9	89.1	64
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	---	14.5	85.4	88	73.3
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	---	15.1	85.1	103.8	72.8
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	---	17.6	78.4	100.5	67.8
Chrysene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	---	10.9	71.4	96.7	62.9
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	P	15.9	80.1	93.1	67.7
Fluoranthene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	---	24.3	76.8	104	59.9
Fluorene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	P	39.5	58.7	102.4	50.7
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	P	16.4	80	95.3	67.6

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

Respectfully Submitted,

Richard Elton

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

INC.
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Client: Environmental Plus, Inc. **Attn:** Iain Olness	**Project ID:** 2003-00017 **Sample Name:** LEHJM071904MW9	**Report#/Lab ID#:** 157761 **Sample Matrix:** water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Naphthalene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	P	57.3	45	117.7	39.6
Phenanthrene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	P	28	69.4	99.3	54.7
Pyrene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	---	24.2	77.1	99.7	61.2

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Client: Environmental Plus, Inc.	**Project ID:** 2003-00017	**Report#/Lab ID#:** 157761
Attn: Iain Olness	**Sample Name:** LEHJM071904MW9	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl	610 & 8270c	41.1	39-110	---
Nitrobenzene-d5	610 & 8270c	36.3	12-110	---
Terphenyl-d14	610 & 8270c	66.7	25-110	---
1,2-Dichloroethane-d4	8260b	100	74-124	---
Toluene-d8	8260b	102	89-115	---

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

Report #/Lab ID#: 157761 **Matrix:** water
Client: Environmental Plus, Inc. **Attn:** Iain Olness
Project ID: 2003-00017
Sample Name: LEHJM071904MW9

Sample Temperature/Condition:

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
Acenaphthene Acenaphthene	P 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.
Acenaphthylene Acenaphthylene	P 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.
Anthracene Anthracene	P 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 Benzo[a]anthracene	P 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 Dibenz[a,h]anthracene	P 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.
Fluorene Fluorene	P 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 Indeno[1,2,3-cd]pyrene	P 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.
Naphthalene Naphthalene	P 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.
Phenanthrene Phenanthrene	P 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.

Notes:

AnalySys Inc.

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Eunice, NM 88231

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

Report#/Lab ID#: 157762 **Report Date:** 08/06/04
Project ID: 2003-00017
Sample Name: LEHJM071904MW10
Sample Matrix: water
Date Received: 07/21/2004 **Time:** 09:40
Date Sampled: 07/19/2004 **Time:** 10:43

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
A/BN Extraction-PAH	---	---	---	---	07/22/04	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	08/04/04	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---		---		07/22/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	07/22/04	8260b	---	0.3	106.7	112.1	99.1
Ethylbenzene	<1	µg/L	1	<1	07/22/04	8260b	---	4	108.1	110.8	104.8
m,p-Xylenes	<2	µg/L	2	<2	07/22/04	8260b	---	4.7	109.5	111.6	108
o-Xylene	<1	µg/L	1	<1	07/22/04	8260b	---	2.6	115.2	114.7	110.3
Toluene	<1	µg/L	1	<1	07/22/04	8260b	---	1.5	114.8	118.8	107.4
Acenaphthene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	12.2	55.8	95.4	57.3
Acenaphthylene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	15.7	50	89.7	50.4
Anthracene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	2.8	61.9	98.5	62.9
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	5.9	79.3	114.3	83.3
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	12.4	70.4	98.4	72.3
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	3.4	94.4	118.7	103.1
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	4.8	95.2	118.6	100.4
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	8	72.3	102.3	72.9
Chrysene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	1.4	64.1	97.9	68.5
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	4.9	81	110.9	84.5
Fluoranthene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	6.6	69.4	97.3	66.9
Fluorene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	6.1	56.6	95.9	57.9
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	11.9	95.7	118.4	99.7

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

Respectfully Submitted,

Richard Elton

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

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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2003-00017
Sample Name: LEHJM071904MW10

Report#/Lab ID#: 157762
Sample Matrix: water

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA** [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Naphthalene	<0.05	μg/L	0.05	<0.05	08/04/04	610 & 8270c	---	17.5	46	92	47.3
Phenanthrene	<0.05	μg/L	0.05	<0.05	08/04/04	610 & 8270c	---	2.1	62	97.7	63.4
Pyrene	<0.05	μg/L	0.05	<0.05	08/04/04	610 & 8270c	---	3.8	61.2	94.7	63.8

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Client: Environmental Plus, Inc.	**Project ID:** 2003-00017	**Report#/Lab ID#:** 157762
Attn: Iain Olness	**Sample Name:** LEHJM071904MW10	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl	610 & 8270c	52.5	39-110	---
Nitrobenzene-d5	610 & 8270c	57.5	12-110	---
Terphenyl-d14	610 & 8270c	69.4	25-110	---
1,2-Dichloroethane-d4	8260b	108	74-124	---
Toluene-d8	8260b	103	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
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Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 157763 **Report Date:** 08/06/04
Project ID: 2003-00017
Sample Name: LEHJM071904MW11
Sample Matrix: water
Date Received: 07/21/2004 **Time:** 09:40
Date Sampled: 07/19/2004 **Time:** 12:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
A/BN Extraction-PAH	---	---	---	---	07/22/04	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	08/04/04	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---		---		07/22/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	07/22/04	8260b	---	0.3	106.7	112.1	99.1
Ethylbenzene	<1	µg/L	1	<1	07/22/04	8260b	---	4	108.1	110.8	104.8
m,p-Xylenes	<2	µg/L	2	<2	07/22/04	8260b	---	4.7	109.5	111.6	108
o-Xylene	<1	µg/L	1	<1	07/22/04	8260b	---	2.6	115.2	114.7	110.3
Toluene	<1	µg/L	1	<1	07/22/04	8260b	---	1.5	114.8	118.8	107.4
Acenaphthene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	12.2	55.8	95.4	57.3
Acenaphthylene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	15.7	50	89.7	50.4
Anthracene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	2.8	61.9	98.5	62.9
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	5.9	79.3	114.3	83.3
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	12.4	70.4	98.4	72.3
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	3.4	94.4	118.7	103.1
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	4.8	95.2	118.6	100.4
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	8	72.3	102.3	72.9
Chrysene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	1.4	64.1	97.9	68.5
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	4.9	81	110.9	84.5
Fluoranthene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	6.6	69.4	97.3	66.9
Fluorene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	6.1	56.6	95.9	57.9
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	11.9	95.7	118.4	99.7

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

Respectfully Submitted,

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.

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

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2003-00017
Sample Name: LEHJM071904MW11

Report#/Lab ID#: 157763
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Naphthalene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	J	17.5	46	92	47.3
Phenanthrene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	J	2.1	62	97.7	63.4
Pyrene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	3.8	61.2	94.7	63.8

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Client: Environmental Plus, Inc.	**Project ID:** 2003-00017	**Report#/Lab ID#:** 157763
Attn: Iain Olness	**Sample Name:** LEHJM071904MW11	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl	610 & 8270c	100	39-110	---
Nitrobenzene-d5	610 & 8270c	108	12-110	---
Terphenyl-d14	610 & 8270c	105	25-110	---
1,2-Dichloroethane-d4	8260b	101	74-124	---
Toluene-d8	8260b	104	89-115	---

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

Report #/Lab ID#: 157763 **Matrix:** water
Client: Environmental Plus, Inc. **Attn:** Iain Olness
Project ID: 2003-00017
Sample Name: LEHJM071904MW11

Sample Temperature/Condition:

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 labbratory 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
Naphthalene	J	See J-flag discussion above.
Phenanthrene	J	See J-flag discussion above.

Notes:

ANALYSYS INC.
35[redacted]onto[redacted]Driv[redacted]stin, [redacted]7874[redacted]
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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#: 157764 **Report Date:** 08/06/04
Project ID: 2003-00017
Sample Name: LEHJM071904MW13
Sample Matrix: water
Date Received: 07/21/2004 **Time:** 09:40
Date Sampled: 07/19/2004 **Time:** 13:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		07/22/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	07/22/04	8260b	---	0.3	106.7	112.1	99.1
Ethylbenzene	<1	µg/L	1	<1	07/22/04	8260b	---	4	108.1	110.8	104.8
m,p-Xylenes	<2	µg/L	2	<2	07/22/04	8260b	---	4.7	109.5	111.6	108
o-Xylene	<1	µg/L	1	<1	07/22/04	8260b	---	2.6	115.2	114.7	110.3
Toluene	<1	µg/L	1	<1	07/22/04	8260b	---	1.5	114.8	118.8	107.4

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

Respectfully Submitted,

Richard Elton

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

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Client: Environmental Plus, Inc.	**Project ID:** 2003-00017	**Report#/Lab ID#:** 157764
Attn: Iain Olness	**Sample Name:** LEHJM071904MW13	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

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

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

AnalySys Inc.
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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#: 157765 **Report Date:** 08/06/04
Project ID: 2003-00017
Sample Name: LEHJM071904MW15
Sample Matrix: water
Date Received: 07/21/2004 **Time:** 09:40
Date Sampled: 07/19/2004 **Time:** 14:01

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
A/BN Extraction-PAH	---	---	---	---	07/22/04	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	08/04/04	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---		---		07/22/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	07/22/04	8260b	J	0.3	106.7	112.1	99.1
Ethylbenzene	<1	µg/L	1	<1	07/22/04	8260b	---	4	108.1	110.8	104.8
m,p-Xylenes	<2	µg/L	2	<2	07/22/04	8260b	---	4.7	109.5	111.6	108
o-Xylene	<1	µg/L	1	<1	07/22/04	8260b	---	2.6	115.2	114.7	110.3
Toluene	**1.01**	µg/L	1	<1	07/22/04	8260b	---	1.5	114.8	118.8	107.4
Acenaphthene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	12.2	55.8	95.4	57.3
Acenaphthylene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	15.7	50	89.7	50.4
Anthracene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	2.8	61.9	98.5	62.9
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	5.9	79.3	114.3	83.3
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	12.4	70.4	98.4	72.3
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	3.4	94.4	118.7	103.1
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	4.8	95.2	118.6	100.4
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	8	72.3	102.3	72.9
Chrysene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	1.4	64.1	97.9	68.5
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	4.9	81	110.9	84.5
Fluoranthene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	6.6	69.4	97.3	66.9
Fluorene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	6.1	56.6	95.9	57.9
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	11.9	95.7	118.4	99.7

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

Respectfully Submitted,

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Client: Environmental Plus, Inc.	**Project ID:** 2003-00017	**Report#/Lab ID#:** 157765
Attn: Iain Olness	**Sample Name:** LEHJM071904MW15	**Sample Matrix:** water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Naphthalene	**0.051**	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	17.5	46	92	47.3
Phenanthrene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	2.1	62	97.7	63.4
Pyrene	<0.05	µg/L	0.05	<0.05	08/04/04	610 & 8270c	---	3.8	61.2	94.7	63.8

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Client: Environmental Plus, Inc.	**Project ID:** 2003-00017	**Report#/Lab ID#:** 157765
Attn: Iain Olness	**Sample Name:** LEHJM071904MW15	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl	610 & 8270c	72.7	39-110	---
Nitrobenzene-d5	610 & 8270c	73.5	12-110	---
Terphenyl-d14	610 & 8270c	87.6	25-110	---
1,2-Dichloroethane-d4	8260b	108	74-124	---
Toluene-d8	8260b	101	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 157765 **Matrix:** water
Client: Environmental Plus, Inc. **Attn:** Iain Olness
Project ID: 2003-00017
Sample Name: LEHJM071904MW15

Sample Temperature/Condition:

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.
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J flag Discussion:

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzene	J	See J-flag discussion above.

Notes:

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Address: 2100 Ave. O
Eunice, NM 88231

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

Report#/Lab ID#: 157766 **Report Date:** 08/06/04
Project ID: 2003-00017
Sample Name: LEHJM071904MW16
Sample Matrix: water
Date Received: 07/21/2004 **Time:** 09:40
Date Sampled: 07/19/2004 **Time:** 15:38

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
A/BN Extraction-PAH	---	---	---	---	07/22/04	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	07/30/04	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---		---		07/22/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	07/22/04	8260b	---	0.3	106.7	112.1	99.1
Ethylbenzene	<1	µg/L	1	<1	07/22/04	8260b	---	4	108.1	110.8	104.8
m,p-Xylenes	<2	µg/L	2	<2	07/22/04	8260b	---	4.7	109.5	111.6	108
o-Xylene	<1	µg/L	1	<1	07/22/04	8260b	---	2.6	115.2	114.7	110.3
Toluene	<1	µg/L	1	<1	07/22/04	8260b	---	1.5	114.8	118.8	107.4
Acenaphthene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	P	51.7	59.2	100.1	51.5
Acenaphthylene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	P	53.1	59.1	109.8	51.7
Anthracene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	P	28.8	66.7	103.2	54.3
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	P	21.6	84.4	87.9	71.9
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	---	18.2	71.9	89.1	64
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	---	14.5	85.4	88	73.3
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	---	15.1	85.1	103.8	72.8
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	---	17.6	78.4	100.5	67.8
Chrysene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	---	10.9	71.4	96.7	62.9
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	P	15.9	80.1	93.1	67.7
Fluoranthene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	---	24.3	76.8	104	59.9
Fluorene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	J,P	39.5	58.7	102.4	50.7
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	P	16.4	80	95.3	67.6

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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2003-00017
Sample Name: LEHJM071904MW16

Report#/Lab ID#: 157766
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Naphthalene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	P	57.3	45	117.7	39.6
Phenanthrene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	P	28	69.4	99.3	54.7
Pyrene	<0.05	µg/L	0.05	<0.05	07/30/04	610 & 8270c	---	24.2	77.1	99.7	61.2

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Client: Environmental Plus, Inc.	**Project ID:** 2003-00017	**Report#/Lab ID#:** 157766
Attn: Iain Olness	**Sample Name:** LEHJM071904MW16	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl	610 & 8270c	42.4	39-110	---
Nitrobenzene-d5	610 & 8270c	31.5	12-110	---
Terphenyl-d14	610 & 8270c	60.4	25-110	---
1,2-Dichloroethane-d4	8260b	99.6	74-124	---
Toluene-d8	8260b	101	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 157766 **Matrix:** water
Client: Environmental Plus, Inc. **Attn:** Iain Olness
Project ID: 2003-00017
Sample Name: LEHJM071904MW16

Sample Temperature/Condition:

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Acenaphthene Acenaphthene	P 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.
Acenaphthylene Acenaphthylene	P 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.
Anthracene Anthracene	P 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 Benzo[a]anthracene	P 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 Dibenz[a,h]anthracene	P 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.
Fluorene Fluorene	P 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.
Fluorene	J	See J-flag discussion above.
Indeno[1,2,3-cd]pyrene Indeno[1,2,3-cd]pyrene	P 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.
Naphthalene Naphthalene	P 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.
Phenanthrene Phenanthrene	P 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.

Notes: _____

AnalySys Inc.

Chain of Custody Form

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

Company Name	Environmental Plus, Inc.
EPI Project Manager	Iain Olness
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	505-394-3481 / 505-394-2601
Client Company	Plains All American
Facility Name	Hobbs Junction Mainline
Project Reference	2003-00017
EPI Sampler Name	Manuel Gonzales

Bill To

LinkEnergy

Attn: Jimmy Bryant
PO Box 1660,
Midland, TX 79701

ANALYSIS REQUEST

LAB I.D.	SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	MATRIX: WASTEWATER	MATRIX: SOIL	MATRIX: CRUDE OIL	MATRIX: SLUDGE	MATRIX: OTHER:	PRESERV.: ACID/BASE	PRESERV.: ICE/COOL	PRESERV.: OTHER	SAMPLING: DATE	SAMPLING: TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl^-)	SULFATES ($SO_4^=$)	pH	TCLP	OTHER >>>	PAH				
157759	1 LEHJM071904MW7	G	4	X						X	X		19-Jul	9:04	X							X				
157760	2 LEHJM071904MW8	G	4	X						X	X		19-Jul	10:00	X							X				
157761	3 LEHJM071904MW9	G	4	X						X	X		19-Jul	11:32	X							X				
157762	4 LEHJM071904MW10	G	4	X						X	X		19-Jul	10:43	X							X				
157763	5 LEHJM071904MW11	G	4	X						X	X		19-Jul	12:30	X							X				
157764	6 LEHJM071904MW13	G	4	X						X	X		19-Jul	13:15	X							X				
157765	7 LEHJM071904MW15	G	4	X						X	X		19-Jul	14:01	X							X				
157766	8 LEHJM071904MW16	G	4	X						X	X		19-Jul	15:38	X							X				
	9																									
	10																									

Sampler Relinquished: Manuel Gonzales Date: 7-20-04 Time: 16:50 Received By:

Relinquished by: Date: Time: Received By: (lab staff) [illegible] ASI - 7/21/04 @0940

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

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

REMARKS:

T: 5.2C

Sample Analysis Case Narrative

Client: Environmental Plus, Inc. **Project ID:** 2003-00017

Attn: Iain Olness

for Sample #'s: 157759 **thru** 157766

Analyzed by AnalySys, Inc.

Final Review Date: 8/10/2204 **By:** _____ for (R. Elton)

Case Narrative:

The precisions of several Semi Volatile organic compounds in the analytical batch associated with sample #'s 157761 and 157766 were higher than normal laboratory acceptance criteria. However, in each case, the Matrix Spikes (MS & MSD), and the Laboratory Control Sample (LCS) were within analyte recovery limits indicating that the analytical process was working appropriately and in control. This deviation in the precision between the MS and MSD when viewed in conjunction with the acceptable analyte recovery seen in the MS, MSD, and LCS should have minimal impact on data usability.

AnalySys Inc.

3512 Montopolis Drive, Austin, TX 78744 &
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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#: 161555 **Report Date:** 11/23/04
Project ID: 2003-00017
Sample Name: PAAHJM110804MW7
Sample Matrix: water
Date Received: 11/10/2004 **Time:** 10:00
Date Sampled: 11/08/2004 **Time:** 08:10

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		11/12/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	2.76	11/12/04	8260b	J,B	2.7	93.3	96	98.2
Ethylbenzene	<1	µg/L	1	<1	11/12/04	8260b	---	2.9	108.3	109.3	111.4
m,p-Xylenes	<2	µg/L	2	<2	11/12/04	8260b	---	4.8	102.3	101.3	108.1
MTBE	<5	µg/L	5	<5	11/12/04	8260b	---	4.4	90.2	93.1	93.5
o-Xylene	<1	µg/L	1	<1	11/12/04	8260b	---	4.6	98.3	108	115
Toluene	<1	µg/L	1	<1	11/12/04	8260b	---	2.9	101.3	98.8	103.5

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

Respectfully Submitted,

Dale Wagner

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

ANALYSYS INC.

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Client: Environmental Plus, Inc.	**Project ID:** 2003-00017	**Report#/Lab ID#:** 161555
Attn: Iain Olness	**Sample Name:** PAAHJM110804MW7	**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	110	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 161555 **Matrix:** water
Client: Environmental Plus, Inc. **Attn:** Iain Olness
Project ID: 2003-00017
Sample Name: PAAHJM110804MW7

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	B	One or more method/calib. blanks associated with the analysis were found to have analyte at a level that could impact sample results near the RQL.
Benzene	J	See J-flag discussion above.

Notes:

ANALYSYS INC.

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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#: 161556 **Report Date:** 11/23/04
Project ID: 2003-00017
Sample Name: PAAHJM110804MW8
Sample Matrix: water
Date Received: 11/10/2004 **Time:** 10:00
Date Sampled: 11/08/2004 **Time:** 09:20

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
A/BN Extraction-PAH	---	---	---	---	11/11/04	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	11/20/04	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---		---		11/11/04	8260b(5030/5035)	---	---	---	---	---
Benzene	4.71	µg/L	1	<1	11/11/04	8260b	---	1.6	103.7	99.1	100.5
Ethylbenzene	<1	µg/L	1	<1	11/11/04	8260b	---	7.5	113.6	117.6	118.7
m,p-Xylenes	<2	µg/L	2	<2	11/11/04	8260b	---	7.8	106.7	110.7	112.2
o-Xylene	<1	µg/L	1	<1	11/11/04	8260b	---	7.5	111.9	113.5	119.7
Toluene	<1	µg/L	1	<1	11/11/04	8260b	---	0.7	111.3	103.7	111.8
Acenaphthene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	P	25.1	42.4	87.2	47.9
Acenaphthylene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	P	27.2	43.7	88.1	49.5
Anthracene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	---	10.4	45.6	103.1	58.6
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	---	13.3	23.7	106.8	61.8
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	---	13.9	16.1	114.5	64.7
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	---	12.1	16	115.6	69.5
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	S,M	7.4	14.3	119	68.5
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	---	16.3	16.4	118.9	67.3
Chrysene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	---	13	24	109.3	63.3
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	---	8.8	14.1	117.6	67.5
Fluoranthene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	---	2.8	39.7	105.1	61.5
Fluorene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	---	21.1	50.2	87.1	49
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	S,M	7.3	13.9	117.7	67.2

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

Respectfully Submitted,

Dale Wagner

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

ANALYSYS INC.
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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2003-00017	**Report#/Lab ID#:** 161556
Attn: Iain Olness	**Sample Name:** PAAHJM110804MW8	**Sample Matrix:** water

REPORT OF ANALYSIS-cont. **QUALITY ASSURANCE DATA** [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Naphthalene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	P	29	46.4	100	52.2
Phenanthrene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	---	11.7	61.3	106.3	63.1
Pyrene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	---	2.8	41.7	109.9	64.1

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Client: Environmental Plus, Inc.	**Project ID:** 2003-00017	**Report#/Lab ID#:** 161556
Attn: Iain Olness	**Sample Name:** PAAHJM110804MW8	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl	610 & 8270c	38.5	30-110	---
Nitrobenzene-d5	610 & 8270c	40.7	12-110	---
Terphenyl-d14	610 & 8270c	25	25-110	---
1,2-Dichloroethane-d4	8260b	100	74-124	---
Toluene-d8	8260b	114	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 161556 **Matrix:** water
Client: Environmental Plus, Inc. **Attn:** Iain Olness
Project ID: 2003-00017
Sample Name: PAAHJM110804MW8

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
Acenaphthene Acenaphthene	P 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.
Acenaphthylene Acenaphthylene	P 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.
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 Naphthalene	P 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.

Notes:

ANALYSYS INC.

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(512) 385-5886 • FAX (512) 385-7411

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

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

Report#/Lab ID#: 161557 **Report Date:** 11/23/04
Project ID: 2003-00017
Sample Name: PAAHJM110804MW9
Sample Matrix: water
Date Received: 11/10/2004 **Time:** 10:00
Date Sampled: 11/08/2004 **Time:** 10:38

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		11/11/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/11/04	8260b	---	1.6	103.7	99.1	100.5
Ethylbenzene	<1	µg/L	1	<1	11/11/04	8260b	---	7.5	113.6	117.6	118.7
m,p-Xylenes	<2	µg/L	2	<2	11/11/04	8260b	---	7.8	106.7	110.7	112.2
o-Xylene	<1	µg/L	1	<1	11/11/04	8260b	---	7.5	111.9	113.5	119.7
Toluene	<1	µg/L	1	<1	11/11/04	8260b	---	0.7	111.3	103.7	111.8

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

Respectfully Submitted,

Dale Wagner

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

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Client: Environmental Plus, Inc.	**Project ID:** 2003-00017	**Report#/Lab ID#:** 161557
Attn: Iain Olness	**Sample Name:** PAAHJM110804MW9	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	100	74-124	---
Toluene-d8	8260b	110	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#: 161558 **Report Date:** 11/23/04
Project ID: 2003-00017
Sample Name: PAAHJM110804MW10
Sample Matrix: water
Date Received: 11/10/2004 **Time:** 10:00
Date Sampled: 11/08/2004 **Time:** 11:05

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Volatile organics-8260b/BTEX	---		---		11/11/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/11/04	8260b	---	1.6	103.7	99.1	100.5
Ethylbenzene	<1	µg/L	1	<1	11/11/04	8260b	---	7.5	113.6	117.6	118.7
m,p-Xylenes	<2	µg/L	2	<2	11/11/04	8260b	---	7.8	106.7	110.7	112.2
o-Xylene	<1	µg/L	1	<1	11/11/04	8260b	---	7.5	111.9	113.5	119.7
Toluene	<1	µg/L	1	<1	11/11/04	8260b	---	0.7	111.3	103.7	111.8

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

Respectfully Submitted,

Dale Wagner

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

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Client: Environmental Plus, Inc.	**Project ID:** 2003-00017	**Report#/Lab ID#:** 161558
Attn: Iain Olness	**Sample Name:** PAAHJM110804MW10	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	98.7	74-124	---
Toluene-d8	8260b	111	89-115	---

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

ANALYSYS INC.

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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#: 161559 **Report Date:** 11/23/04
Project ID: 2003-00017
Sample Name: PAAHJM110804MW11
Sample Matrix: water
Date Received: 11/10/2004 **Time:** 10:00
Date Sampled: 11/08/2004 **Time:** 12:35

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Volatile organics-8260b/BTEX	---		---		11/11/04	8260b(5030/5035)	---	---	---	---	---
Benzene	**2.25**	µg/L	1	<1	11/11/04	8260b	---	1.6	103.7	99.1	100.5
Ethylbenzene	<1	µg/L	1	<1	11/11/04	8260b	---	7.5	113.6	117.6	118.7
m,p-Xylenes	<2	µg/L	2	<2	11/11/04	8260b	J	7.8	106.7	110.7	112.2
o-Xylene	<1	µg/L	1	<1	11/11/04	8260b	---	7.5	111.9	113.5	119.7
Toluene	<1	µg/L	1	<1	11/11/04	8260b	J	0.7	111.3	103.7	111.8

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

Respectfully Submitted,

Dale Wagner

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

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2003-00017	**Report#/Lab ID#:** 161559
Attn: Iain Olness	**Sample Name:** PAAHJM110804MW11	**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	111	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 161559 **Matrix:** water
Client: Environmental Plus, Inc. **Attn:** Iain Olness
Project ID: 2003-00017
Sample Name: PAAHJM110804MW11

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.
Toluene	J	See J-flag discussion above.

Notes:

AnalySys Inc.

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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#: 161560 **Report Date:** 11/23/04
Project ID: 2003-00017
Sample Name: PAAHJM110804MW13
Sample Matrix: water
Date Received: 11/10/2004 **Time:** 10:00
Date Sampled: 11/08/2004 **Time:** 13:18

REPORT OF ANALYSIS ***QUALITY ASSURANCE DATA*** [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
A/BN Extraction-PAH	---	---	---	---	11/11/04	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	11/20/04	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---		---		11/11/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/11/04	8260b	---	1.6	103.7	99.1	100.5
Ethylbenzene	<1	µg/L	1	<1	11/11/04	8260b	---	7.5	113.6	117.6	118.7
m,p-Xylenes	<2	µg/L	2	<2	11/11/04	8260b	---	7.8	106.7	110.7	112.2
o-Xylene	<1	µg/L	1	<1	11/11/04	8260b	---	7.5	111.9	113.5	119.7
Toluene	<1	µg/L	1	<1	11/11/04	8260b	---	0.7	111.3	103.7	111.8
Acenaphthene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	P	25.1	42.4	87.2	47.9
Acenaphthylene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	P	27.2	43.7	88.1	49.5
Anthracene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	---	10.4	45.6	103.1	58.6
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	---	13.3	23.7	106.8	61.8
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	---	13.9	16.1	114.5	64.7
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	---	12.1	16	115.6	69.5
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	S,M	7.4	14.3	119	68.5
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	---	16.3	16.4	118.9	67.3
Chrysene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	---	13	24	109.3	63.3
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	---	8.8	14.1	117.6	67.5
Fluoranthene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	---	2.8	39.7	105.1	61.5
Fluorene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	---	21.1	50.2	87.1	49
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	S,M	7.3	13.9	117.7	67.2

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

Respectfully Submitted,

Dale Wagner

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

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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2003-00017
Sample Name: PAAHJM110804MW13

Report#/Lab ID#: 161560
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Naphthalene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	P	29	46.4	100	52.2
Phenanthrene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	---	11.7	61.3	106.3	63.1
Pyrene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	---	2.8	41.7	109.9	64.1

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Client: Environmental Plus, Inc.	**Project ID:** 2003-00017	**Report#/Lab ID#:** 161560
Attn: Iain Olness	**Sample Name:** PAAHJM110804MW13	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl	610 & 8270c	50.3	30-110	---
Nitrobenzene-d5	610 & 8270c	54.6	12-110	---
Terphenyl-d14	610 & 8270c	27.9	25-110	---
1,2-Dichloroethane-d4	8260b	97.5	74-124	---
Toluene-d8	8260b	113	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 161560 **Matrix:** water
Client: Environmental Plus, Inc. **Attn:** Iain Olness
Project ID: 2003-00017
Sample Name: PAAHJM110804MW13

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.
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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
Acenaphthene Acenaphthene	P 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.
Acenaphthylene Acenaphthylene	P 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.
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 Naphthalene	P 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.

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#: 161561 **Report Date:** 11/23/04
Project ID: 2003-00017
Sample Name: PAAHJM110804MW15
Sample Matrix: water
Date Received: 11/10/2004 **Time:** 10:00
Date Sampled: 11/08/2004 **Time:** 14:06

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Volatile organics-8260b/BTEX	---		---		11/11/04	8260b(5030/5035)	---	---	---	---	---
Benzene	4.82	µg/L	1	<1	11/11/04	8260b	---	1.6	103.7	99.1	100.5
Ethylbenzene	<1	µg/L	1	<1	11/11/04	8260b	---	7.5	113.6	117.6	118.7
m,p-Xylenes	<2	µg/L	2	<2	11/11/04	8260b	---	7.8	106.7	110.7	112.2
o-Xylene	<1	µg/L	1	<1	11/11/04	8260b	---	7.5	111.9	113.5	119.7
Toluene	<1	µg/L	1	<1	11/11/04	8260b	---	0.7	111.3	103.7	111.8

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

Respectfully Submitted,

Dale Wagner

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

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Client: Environmental Plus, Inc.	**Project ID:** 2003-00017	**Report#/Lab ID#:** 161561
Attn: Iain Olness	**Sample Name:** PAAHJM110804MW15	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	100	74-124	---
Toluene-d8	8260b	112	89-115	---

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

AnalySys Inc.

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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#: 161562 **Report Date:** 11/23/04
Project ID: 2003-00017
Sample Name: PAAHJM110804MW16
Sample Matrix: water
Date Received: 11/10/2004 **Time:** 10:00
Date Sampled: 11/08/2004 **Time:** 15:11

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS [4]
Volatile organics-8260b/BTEX	---		---		11/11/04	8260b(5030/5035)	---	---	---	---	---
Benzene	**25.5**	µg/L	1	<1	11/11/04	8260b	---	1.6	103.7	99.1	100.5
Ethylbenzene	<1	µg/L	1	<1	11/11/04	8260b	---	7.5	113.6	117.6	118.7
m,p-Xylenes	<2	µg/L	2	<2	11/11/04	8260b	---	7.8	106.7	110.7	112.2
o-Xylene	<1	µg/L	1	<1	11/11/04	8260b	---	7.5	111.9	113.5	119.7
Toluene	<1	µg/L	1	<1	11/11/04	8260b	J	0.7	111.3	103.7	111.8

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

Respectfully Submitted,

Dale Wagner

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Exceptions Report:

Report #/Lab ID#: 161562 **Matrix:** water
Client: Environmental Plus, Inc. **Attn:** Iain Olness
Project ID: 2003-00017
Sample Name: PAAHJM110804MW16

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.
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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: _____

ANALYSYS INC.

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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#: 161563 **Report Date:** 11/23/04
Project ID: 2003-00017
Sample Name: Irrigation Well (HJM110804WW)
Sample Matrix: water
Date Received: 11/10/2004 **Time:** 10:00
Date Sampled: 11/08/2004 **Time:** 15:42

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA [1]

Parameter	Result	Units	RQL [5]	Blank	Date	Method [6]	Data Qual.[7]	Prec. [2]	Recov. [3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		11/11/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/11/04	8260b	---	1.7	96.6	95.7	93.9
Ethylbenzene	<1	µg/L	1	<1	11/11/04	8260b	---	1.3	111.8	115.4	112.5
m,p-Xylenes	<2	µg/L	2	<2	11/11/04	8260b	---	1.3	106.2	108.3	107.9
o-Xylene	<1	µg/L	1	<1	11/11/04	8260b	---	0.3	112.6	113.6	113.7
Toluene	<1	µg/L	1	<1	11/11/04	8260b	---	0.4	105.8	101.8	104.2

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

Respectfully Submitted,

Dale Wagner

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.	**Project ID:** 2003-00017	**Report#/Lab ID#:** 161563
Attn: Iain Olness	**Sample Name:** Irrigation Well (HJM110804WW)	**Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

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

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

11033

AnalySys Inc.

Chain of Custody Form

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

Company Name	Environmental Plus, Inc.
EPI Project Manager	Iain Olness
Mailing Address	P.O. BOX 1558
City, State, Zip	Eunice New Mexico 88231
EPI Phone#/Fax#	505-394-3481 / 505-394-2601
Client Company	Plains All American
Facility Name	Hobbs Junction Mainline
Project Reference	2003-00017
EPI Sampler Name	Manuel Gonzales

Bill To

PLAINS ALL AMERICAN PIPELINE, L.P.
Attn: ENV Accounts Payable
P.O. Box 4648,
Houston, TX 77210-4648

LAB I.D.		SAMPLE I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	PRESERV.: ACID/BASE	ICE/COOL	OTHER	SAMPLING: DATE	TIME	ANALYSIS REQUEST: BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO_4^-)	pH	TCLP	OTHER >>>	PAH
161555	1	PAAHJM110804MW7	G	3	X						X	X		8-Nov	8:10	X							
161556	2	PAAHJM110804MW8	G	5	X						X	X		8-Nov	9:20	X							X
161557	3	PAAHJM110804MW9	G	3	X						X	X		8-Nov	10:38	X							
161558	4	PAAHJM110804MW10	G	3	X						X	X		8-Nov	11:05	X							
161559	5	PAAHJM110804MW11	G	3	X						X	X		8-Nov	12:35	X							
161560	6	PAAHJM110804MW13	G	5	X						X	X		8-Nov	13:18	X							X
161561	7	PAAHJM110804MW15	G	3	X						X	X		8-Nov	14:06	X							
161562	8	PAAHJM110804MW16	G	3	X						X	X		8-Nov	15:11	X							
161563	9	Irrigation Well (HJM110804WW)	G	3	X						X	X		8-Nov	15:42	X							
	10																						

Sampler Relinquished: Iain Olness	Date 11/9/04 Time 1650	Received By: Tammy Gawecki
Relinquished by:	Date 11/10/04 Time 1000	Received By: (Lab staff) AS I
Delivered by:	Sample Cool & Intact Yes No	Checked By:

E-mail results to: iolness@hotmail.com
REMARKS:

T: 5.7°C

Sample Analysis Case Narrative

Client: Environmental Plus, Inc. **Project ID:** 2003-00017

Attn: Iain Olness

for Sample #'s: 161555 **thru** 161563

Analyzed by AnalySys, Inc.

Final Review Date: 11/24/2004 **By:** _____ (D. Wagner)

Case Narrative:

The Continuing Calibration Blank (CCB1) was above the Reporting Quantitation Limit (RQL) for Benzene in the analytical batch that contained sample # 161555. However, there was no Benzene detected in sample # 161555 indicating that this potential for "high" bias had no impact on data usability.

The precisions of several semi volatile organic compounds for the analytical batch that contained sample #'s 161556 and 161560 were higher than normal laboratory acceptance criteria. However, in each case, the Matrix Spikes (MS & MSD), and the Laboratory Control Sample (LCS) run with this batch were within analyte recovery limits indicating that the analytical process was working appropriately and in control. This deviation in the precision between the MS and MSD when viewed in conjunction with the acceptable analyte recovery seen for the MS, MSD, and LCS should have minimal impact on data usability.

The recoveries of Benzo[g,h,i]perylene and Indeno[1,2,3-cd]pyrene in the Matrix Spikes (MS&MSD) for the analytical batch that contained sample #'s 161556 and 161560 were below normal laboratory acceptance criteria. The Laboratory Control Sample (LCS) run with this batch met recovery acceptance criteria for each analyte indicating that the analytical method was operating correctly and in control. None of the affected analytes were found in sample # 161556 or sample # 161560. When viewed within the context of the passing LCS data, and the acceptable surrogate recoveries seen for each of the above referenced samples, this deviation in spike recovery should have minimal impact on data usability.

Site Information and Metrics Form

PLAINS ALL AMERICAN
Site Information and Metrics

Incident Date: 1-23-03 @ 8:00 AM	NMOCD Notified: 1-23-03 @ 11:35 AM Larry Johnson by Pat McCasland EPI

SITE: **Hobbs Junction Mainline**	Assigned Site Reference #: **2003-00017**
Company: Plains All American Pipeline	
Street Address: PO Box 1660	Notified Date/Time: NA
Mailing Address: 5805 East Highway 80	Notified by: Pat McCasland EPI
City, State, Zip: Midland, Texas 79702	Person Notified: NA
Representative: Camille Reynolds	NRC Report# : NA
Representative Telephone: 505.393.5611	
Telephone:	
Fluid volume released (bbls): 50 bbls	Recovered (bbls): 24 bbls
>25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Gas)	
5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)	
Leak, Spill, or Pit (LSP) Name: Hobbs Junction Mainline	
Source of contamination: 10" Steel Pipeline	
Land Owner, i.e., BLM, ST, Fee, Other: State of New Mexico and Faye Klein	
LSP Dimensions 50' x 470'	
LSP Area: 12,500 sqft	
Location of Reference Point (RP)	
Location distance and direction from RP	
Latitude: 32°42'40.85"N	
Longitude: 103°13'42.01"W	
Elevation above mean sea level: 3,372'amsl	
Feet from South Section Line	
Feet from West Section Line	
Location- Unit or ¼¼: SW¼ of the SW¼ Unit Letter: M	
Location- Section: 26	
Location- Township: T18S	
Location- Range: R37E	
Surface water body within 1000 ' radius of site: none	
Domestic water wells within 1000' radius of site: none	
Agricultural water wells within 1000' radius of site: 1- approximately 600' west	
Public water supply wells within 1000' radius of site: none	
Depth from land surface to ground water (DG) 40'bgs	
Depth of contamination (DC) – 40'bgs	
Depth to ground water (DG – DC = DtGW) - 0'	

1. Ground Water	2. Wellhead Protection Area	3. Distance to Surface Water Body
If Depth to GW <50 feet: *20 points*	If <1000' from water source, or;<200' from private domestic water source: *20 points*	<200 horizontal feet: *20 points*
If Depth to GW 50 to 99 feet: *10 points*		200-100 horizontal feet: *10 points*
If Depth to GW >100 feet: *0 points*	If >1000' from water source, or; >200' from private domestic water source: *0 points*	>1000 horizontal feet: *0 points*
Ground water Score = 20	*Wellhead Protection Area Score=20*	*Surface Water Score= 0*

Site Rank (1+2+3) = 40

Total Site Ranking Score and Acceptable Concentrations

Parameter	>19	10-19	0-9
Benzene[1]	10 ppm	10 ppm	10 ppm
BTEX[1]	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1000 ppm	5000 ppm

[1]100 ppm field VOC headspace measurement may be substituted for lab analysis

NMOCD Form C-141

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2004

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☐ Final Report

Name of Company: **Plains Pipeline, L.P.**	Contact: **Camille Reynolds**
Address: **PO Box 3119 (3705 East Highway 158) Midland, Texas 79702 (79706)**	Telephone No. **505.393.5611**
Facility Name **Hobbs Junction Mainline #2003-00017**	Facility Type **10" Steel Pipeline**

Surface Owner: **State of New Mexico and Faye Klein**	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County:
M	**26**	**T18S**	**R37E**					Lea

Latitude: 32°42'40.85"N **Longitude:** 103°13'42.01"W

NATURE OF RELEASE

Type of Release **Crude Oil**	Volume of Release **50 barrels**	Volume Recovered **24 barrels**
Source of Release **10" Steel Pipeline**	Date and Hour of Occurrence **1-23-03 @ 8:00 AM**	Date and Hour of Discovery **1-23-03 @ 10:45 AM**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **Larry Johnson**	
By Whom? **Pat McCasland EPI**	Date and Hour **1-23-03 @ 11:35 AM**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **NA**	

If a Watercourse was Impacted, Describe Fully.*
NA

Describe Cause of Problem and Remedial Action Taken.*
10" Steel Pipeline **Steel line began leaking due to internal corrosion. Pipe replaced and line tested.**

Describe Area Affected and Cleanup Action Taken.*
12,500 sqft 50' x 470': Soil and groundwater contaminated above the NMOCD Remedial Guidelines will be remediated to the prescribed remedial goals. Remedial Goals: TPH 8015m = 100 mg/Kg, Benzene = 10 mg/Kg, and BTEX, i.e., the mass sum of Benzene, Ethyl Benzene, Toluene, and Xylenes = 50 mg/Kg.

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

Signature:	**OIL CONSERVATION DIVISION**	
Printed Name: Camille Reynolds	Approved by District Supervisor:	
E-mail Address: CJReynolds@PAALP.com	Approval Date:	Expiration Date:
Title: District Environmental Coordinator	Conditions of Approval:	Attached ☐
Date: Phone: 505.396.3341		

Attach Additional Sheets If Necessary