

1R - 398

REPORTS

DATE:
2003 - 06



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.

Director

Oil Conservation Division

April 19, 2005

Ms. Camille Reynolds
Plains All American
3112 West Highway 82
Lovington, NM 88260

Re: Plains All American Pipeline, L.P.
Annual Monitoring Report
Dated February 22, 2005
Livingston Ridge to Hugh P. Sims
Plains Ref: 2001-11005
NW/4 SE/4 of Section 3, T-21S, R-37E
Lea County New Mexico
NMOCD Ref: 1R-0398

Dear Ms. Reynolds:

The New Mexico Oil Conservation Division (NMOCD) has received and reviewed the report shown above. The report is accepted as received with the following understandings and conditions:

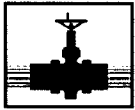
1. The fact that MW-2, MW-3, MW-7, MW-8, MW-10, and MW-15 have been sampled and the results have shown that contaminants are below NMOCD regulatory thresholds does not automatically relieve Plains of the responsibility to continue to sample these wells. If Plains wishes to plug and abandon these wells, a request must be submitted.
2. Plains will continue to monitor the groundwater monitoring well network on a semi-monthly basis and gauge the wells to determine the depth to groundwater and PSH, if present.
3. It is recommended by the NMOCD that Plains apply a more aggressive PSH recovery technique at this site. Please submit a proposal to that effect by May 31, 2005.

NMOCD acceptance of this report does not relieve Plains of liability should its operations at this site prove harmful to public health or the environment. Nor does it relieve Plains of its responsibility to comply with the rules and regulations of any other federal, state, county or local governmental agency.

NEW MEXICO OIL CONSERVATION DIVISION

Edwin E. Martin
Environmental Bureau

Cc: NMOCD, Hobbs



PLAINS ALL AMERICAN

March 1, 2005

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

IR-398

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

Dear Mr. Martin:

Plains All American is an operator of crude oil pipelines and terminal facilities in the state of New Mexico. Plains All American actively monitors certain historical release sites exhibiting groundwater impacts, consistent with assessments and work plans developed in consultation with the New Mexico Oil Conservation Division (NMOCD). In accordance with the rules and regulations of the NMOCD, Plains All American hereby submits our Annual Monitoring reports for the following sites:

Livingston Ridge to Hugh	Section 3, Township 21 South, Range 37 East, Lea County
Vacuum 10 Inch to Jal	Section 20, Township 19 South, Range 37 East, Lea County

EPI prepared these documents and has vouched for their accuracy and completeness, and on behalf of Plains All American, I have personally reviewed the documents and interviewed EPI in order to verify the accuracy and completeness of these documents. It is based upon these inquiries and reviews that Plains All American submits the enclosed Annual Monitoring Reports for the above 2 facilities.

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

Sincerely,

Camille Reynolds
Remediation Coordinator
Plains All American

CC: Larry Johnson, NMOCD, Hobbs, NM

Enclosures



ENVIRONMENTAL PLUS, INC.

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STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES

23 February 2005

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

Re: Annual Monitoring Report
Plains All American Pipeline, L.P. Livingston Ridge to Hugh – P. Sims #2001-11005
UL-J Section 3, T21S, R37E, Lea County, New Mexico

Dear Mr. Martin,

Environmental Plus, Inc. (EPI), on behalf of Ms. Camille Reynolds, Plains All American Pipeline, L.P. (Plains), submits for your consideration this *Annual Monitoring Report* for the above-referenced site. Based on data collected during the past year, Plains recommends continued monitoring for the presence of phase-separated hydrocarbons (PSH) on a semi-monthly basis and collection of groundwater level data and continued quarterly sampling of the groundwater monitoring wells.

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

All official correspondence should be addressed to:

Ms. Camille Reynolds
Plains All American Pipeline, L.P.
3112 West US Highway 182
Lovington, New Mexico 88260

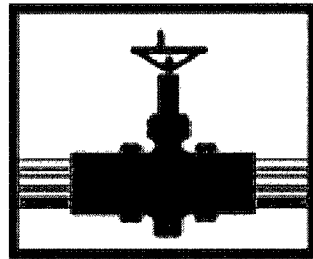
Sincerely,

ENVIRONMENTAL PLUS, INC.

Iain Olness, P.G.
Hydrogeologist

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

ENVIRONMENTAL PLUS, INC.



PLAINS
ALL AMERICAN
PIPELINE, L.P.

ANNUAL MONITORING REPORT

LIVINGSTON RIDGE TO HUGH - P. SIMS
PLAINS REF: 2001-11005

NW¼ OF THE SE¼ OF SECTION 3, TOWNSHIP 21 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO

~5 MILES NORTH-NORTHEAST (356°) OF
EUNICE, LEA COUNTY, NEW MEXICO
LATITUDE: N32° 30' 12.27" LONGITUDE: W103° 08' 54.81"

FEBRUARY 22, 2005

PREPARED BY:

Environmental Plus, Inc.

2100 Avenue O
P.O. Box 1558
Eunice, NM 88231
Phone: (505)394-3481
FAX: (505)394-2601
iolness@hotmail.com



STANDARD OF CARE

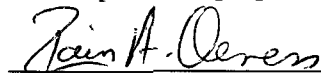
Annual Monitoring Report

Livingston Ridge to Hugh – P. Sims

Ref. # 2001-11005

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:

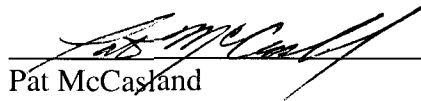


Iain A. Olness, P.G.
Hydrogeologist

22 February 2005

Date

This report was reviewed by:



Pat McCasland

2.23.05

Date

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I. Background

The "Livingston Line to Hugh P. Sims" (2001-11005) release site is located approximately 5 miles north-northeast of Eunice in Lea County, New Mexico, at an elevation of approximately 3,427 feet above mean sea level (reference *Figures 1 and 2*). The site is located in the northwest quarter of the southeast quarter of section 3, range 27 east, township 21 south within the Monument Draw drainage feature. There are no residences or surface water bodies within a 1,000-foot radius of the leak site.

A release of six (6) barrels of crude oil was reported to the New Mexico Oil Conservation Division (NMOCD) on June 22, 2001, with no recovery. Initial excavation activities were conducted by Environmental Plus, Inc. (EPI) to stockpile the saturated soil and expose the leak origin in order to repair the pipeline. Once the pipeline was repaired, excavation activities continued during July 2001. A total of 148 cubic yards of hydrocarbon-impacted soil were excavated at the site and transported to EPI's landfarm south of Eunice, New Mexico. However, due to excavation safety issues involved with continued excavation, a groundwater monitoring well (TMW-1) was installed in the bottom of the excavation. Phase-separated hydrocarbons (PSH) were detected on the groundwater surface and the NMOCD and landowner were immediately notified of the release. EPI installed three additional groundwater monitoring wells at the site to delineate the extent and magnitude of the release and determine the groundwater gradient.

Environmental Technology Group, Inc. (ETGI) assumed control of remedial activities in August 2002 and installed twelve (12) additional groundwater monitoring wells at the site. These wells were installed to complete the delineation activities initiated by EPI. Initial analytical results indicated the contaminant plume was expanding slowly in a southeasterly direction; however, the groundwater monitoring well network had adequately delineated the dissolved phase and phase-separated hydrocarbons underlying the site.

The groundwater monitoring well network has been sampled on a quarterly basis since the wells were installed (reference *Tables 2 and 3*) and recovery of PSH has been conducted on a regular basis (i.e., once every week or every two weeks).

II. Field Activities

The groundwater monitoring well network was sampled on February 17 and May 6, 2004, with the exception of groundwater monitoring wells MW-1 and TMW-1, which contained PSH on the water column. These sampling events were completed by ETGI. Groundwater monitoring wells MW-9, MW-11, MW-12, MW-13 and MW-14 were sampled on August 18, 2004 and groundwater monitoring wells MW-5 and MW-15 were sampled on August 24, 2004 by EPI. Groundwater monitoring wells MW-1, MW-4, MW-5, MW-6, MW-9, MW-11, MW-12, MW-13, MW-14 and TMW-1 were sampled on November 2, 2004 by EPI.

In addition to the sampling events, site visits were made on January 2, January 19, January 27, February 2, February 25, March 1, March 10, March 15, March 17, March 22, March 24, March 29, March 31, April 12, April 15, April 19, June 23, June 25, June 30, September 10, September

21, October 5, October 19, November 15, December 6 and December 21, 2004. These site visits entailed obtaining PSH and water levels from groundwater monitoring well network and recovering PSH in any impacted wells.

III. Groundwater Gradient and PSH Thickness

Monitoring wells were gauged prior to bailing to determine the depth to groundwater and the thickness of any PSH. Measurements of groundwater levels during the past year indicate that water levels have risen approximately 11.2 feet during 2004 (reference *Figures 20 thru 23*). PSH levels in the impacted monitoring wells have fluctuated during the past year, with thicknesses ranging from non-detectable (ND) to 5.45 feet and average PSH thickness of 1.46 feet. A summary of groundwater elevations and PSH thickness is included in Table 1.

Based on data collected during the past year, groundwater is flowing to the east and/or southeast (reference *Figures 24, 26, 28 and 30*).

IV. PSH Recovery

Recovery of PSH was accomplished utilizing disposable bailers during the site visits. EPI recovered approximately 17.5 gallons of PSH from groundwater monitoring wells MW-1 and TMW-1 after assuming remedial responsibilities in July 2004. PSH were detected in groundwater monitoring wells MW-1, MW-4, MW-5 and TMW-1 at the beginning of 2004; however, PSH were only detected in groundwater monitoring well TMW-1 during the final gauging events of 2004.

V. Groundwater Sampling

The groundwater monitoring well network was sampled on February 17 and May 6, 2004, with the exception of groundwater monitoring wells MW-1 and TMW-1, which contained PSH on the water column. Groundwater monitoring wells MW-9, MW-11, MW-12, MW-13 and MW-14 were sampled on August 18, 2004 and groundwater monitoring wells MW-5 and MW-15 were sampled on August 24, 2004. Groundwater monitoring wells MW-1, MW-4, MW-5, MW-6, MW-9, MW-11, MW-12, MW-13, MW-14 and TMW-1 were sampled on November 2, 2004.

The samples collected on February 17 and May 6, 2004, were submitted to an independent laboratory for the quantification of benzene, toluene, ethylbenzene and total xylenes (BTEX). The samples collected on August 18 and 24, 2004 were submitted to an independent laboratory for quantification of BTEX and poly-aromatic hydrocarbons (PAHs), with the exception of the sample collected from groundwater monitoring well MW-9. The sample collected from this well was only submitted for quantification of BTEX. The samples collected on November 2, 2004 were submitted to an independent laboratory for quantification of BTEX. In addition, the samples collected from groundwater monitoring wells MW-4 and MW-6 were submitted for quantification of PAHs.

The wells were purged a minimum of three well volumes or dry and samples collected utilizing dedicated or disposable sample bailers. Samples were then placed on ice and shipped to an independent laboratory under chain-of-custody for analyses.

VI. Groundwater Analytical Results

Analytical results for the samples collected on from groundwater monitoring wells MW-2, MW-3, MW-7, MW-8 and MW-10 were reported as non-detectable (ND) for the initial two sampling events of 2004 (i.e., February 17 and May 6). Based on this, and the fact that no analytes were detected at or above each analytes respective method detection limit (MDL) for eight consecutive quarters, sampling activities for these wells were terminated for the year.

Analytical results for the samples collected from groundwater monitoring well MW-15 were reported as ND for the initial three sampling events of 2004 (i.e., February 17, May 6 and August 24). Based on this, and the fact that no analytes were detected at or above each analytes respective MDL for eight consecutive quarters, sampling activities for this well were terminated for the year.

Analytical results for the samples collected from groundwater monitoring well MW-4 indicated benzene concentrations ranging from 0.069 milligrams per liter (mg/L) to 0.745 mg/L. Toluene concentrations for these samples were reported ranging from ND at or above the MDL of 0.001 mg/L to 0.213 mg/L. Ethylbenzene concentrations for these samples were reported ranging from 0.003 mg/L to 0.394 mg/L. Total xylene concentrations for these samples were reported ranging from 0.005 mg/L to 0.49 mg/L. The sample collected on November 2, 2004 was also submitted for quantification of PAHs with analytical results indicating the presence of naphthalene (0.025 mg/L), fluorene (0.0002 mg/L) and phenanthrene (0.0002 mg/L). Benzene concentrations were above the New Mexico Water Quality Control Commission (NMWQCC) groundwater standards of 0.01 mg/L in all samples collected from groundwater monitoring well MW-4 during 2004. All other analyte concentrations were below NMWQCC groundwater standards during all 2004 groundwater sampling events.

Analytical results for the samples collected from groundwater monitoring well MW-5 indicated benzene concentrations ranging from 0.074 mg/L to 0.445 mg/L. Toluene concentrations for these samples were reported ranging from ND at or above the MDL of 0.001 mg/L to 0.048 mg/L. Ethylbenzene concentrations for these samples were reported ranging from 0.021 mg/L to 3.33 mg/L. Total xylene concentrations for these samples were reported at 0.042 mg/L to 3.16 mg/L. The sample collected on August 24, 2004 was also submitted for quantification of PAHs with analytical results indicating the presence of acenaphthene (0.0001 mg/L), acenaphthylene (0.0001 mg/L), benzo(j,k)fluoranthene (0.0001 mg/L), chrysene (0.0001 mg/L), fluorene (0.0004 mg/L), naphthalene (0.008 mg/L) and phenanthrene (0.0009 mg/L). Benzene concentrations were above the NMWQCC groundwater standards of 0.01 mg/L in all samples collected from groundwater monitoring well MW-5 during 2004. Ethylbenzene and total xylene concentrations were reported above the NMWQCC groundwater standards of 0.75 mg/L and 0.62 mg/L, respectively, for the initial sampling event of 2004. Concentrations for both of these analytes were reported below NMWQCC groundwater standards for the final three sampling events of

2004. All other analyte concentrations were below NMWQCC groundwater standards during all 2004 groundwater sampling events.

Analytical results for the samples collected from groundwater monitoring well MW-6 were reported as ND at or above each analyte's respective MDL for all 2004 sampling events, with the exception of the sample collected on May 6, 2004. Analytical results for this sample indicated benzene concentrations of 0.004 mg/L and total xylene concentrations of 0.004 mg/L. The sample collected on November 2, 2004 was also submitted for quantification of PAHs with analytical results indicating no contaminants detected at or above each analyte's respective MDL. All analyte concentrations were below NMWQCC groundwater standards during all 2004 groundwater sampling events.

Analytical results for the samples collected from groundwater monitoring well MW-9 indicated benzene concentrations ranging from 0.003 mg/L to 0.136 mg/L. Toluene and ethylbenzene concentrations were reported as ND at or above each analyte's respective MDL for all four sampling events of 2004. Total xylene concentrations for these samples were reported ranging from ND to 0.021 mg/L. Benzene concentrations were below the NMWQCC groundwater standards of 0.01 mg/L in all samples collected from groundwater monitoring well MW-9 except for the final sample collected during 2004. All other analyte concentrations were below NMWQCC groundwater standards during all 2004 groundwater sampling events.

Analytical results for the samples collected from groundwater monitoring well MW-11 indicated benzene concentrations ranging from 0.087 mg/L to 2.05 mg/L. Toluene concentrations for these samples were reported as ND at or above the analyte's MDL for all four sampling events in 2004. Ethylbenzene concentrations for these samples were reported ranging from ND to 0.253 mg/L. Total xylene concentrations for these samples were reported ranging from ND to 0.256 mg/L. The sample collected on August 18, 2004 was also submitted for quantification of PAHs with analytical results indicating the presence of fluorene (0.0001 mg/L), naphthalene (0.0014 mg/L) and phenanthrene (0.0001 mg/L). Benzene concentrations were above the NMWQCC groundwater standards of 0.01 mg/L in all samples collected from groundwater monitoring well MW-11 during 2004. All other analyte concentrations were below NMWQCC groundwater standards during all 2004 groundwater sampling events.

Analytical results for the samples collected from groundwater monitoring well MW-12 indicated benzene concentrations ranging from 0.032 mg/L to 1.21 mg/L. Toluene concentrations for these samples were reported as ND at or above the analyte's MDL for all four sampling events in 2004. Ethylbenzene concentrations for these samples were reported ranging from ND to 0.066 mg/L. Total xylene concentrations were reported ranging from ND to 0.147 mg/L. The sample collected on August 18, 2004 was also submitted for quantification of PAHs with analytical results indicating the presence of acenaphthene (0.0001 mg/L), fluorene (0.0001 mg/L), naphthalene (0.0003 mg/L) and phenanthrene (0.0002 mg/L). Benzene concentrations were above the NMWQCC groundwater standards of 0.01 mg/L in all samples collected from groundwater monitoring well MW-12 during 2004. All other analyte concentrations were below NMWQCC groundwater standards during all 2004 groundwater sampling events.

Analytical results for the samples collected from groundwater monitoring well MW-13 indicated benzene concentrations ranging from 0.04 mg/L to 0.23 mg/L. Toluene concentrations for these samples were reported as ND at or above the analyte's MDL for all four sampling events in 2004. Ethylbenzene concentrations for these samples were reported ranging from ND to 0.015 mg/L. Total xylene concentrations were reported ranging from ND to 0.008 mg/L. The sample collected on August 18, 2004 was also submitted for quantification of PAHs with analytical results indicating the presence of acenaphthene (0.0001 mg/L), acenaphthylene (0.0001 mg/L), fluorene (0.0001 mg/L), naphthalene (0.002 mg/L) and phenanthrene (0.0007 mg/L). Benzene concentrations were above the NMWQCC groundwater standards of 0.01 mg/L in all samples collected from groundwater monitoring well MW-13 during 2004. All other analyte concentrations were below NMWQCC groundwater standards during all 2004 groundwater sampling events.

Analytical results for the groundwater samples collected from groundwater monitoring well MW-14 indicated benzene concentrations ranging from ND to 0.011 mg/L. Toluene and ethylbenzene concentrations for these samples were reported as ND at or above each analyte's respective MDL for all four sampling events in 2004. Total xylene concentrations for these samples were reported ranging from ND to 0.024 mg/L. The sample collected on August 18, 2004 was also submitted for quantification of PAHs with analytical results indicating the presence of naphthalene (0.001 mg/L) and phenanthrene (0.0001 mg/L). Benzene concentrations were below the NMWQCC groundwater standards of 0.01 mg/L in all samples collected from groundwater monitoring well MW-14 except for the final sample collected during 2004. All other analyte concentrations were below NMWQCC groundwater standards during all 2004 groundwater sampling events.

A summary of groundwater analytical results is included as Tables 2 and 3 and copies of the analytical results for groundwater samples collected during 2004 are included as Appendix A.

VII. Recommendations

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

- 1) Continue to monitor the groundwater monitoring well network on a semi-monthly basis and recover PSH from the impacted groundwater monitoring well(s) and gauge the wells to determine the depth to groundwater and PSH, if present.
- 2) Continue to sample the groundwater monitoring well network on a quarterly basis and submit the samples for quantification of BTEX. Please reference Table 4 for a summary of groundwater sampling recommendations for the site. In the event PSH are not detected during a sampling event in groundwater monitoring wells currently containing PSH, these wells will be included in the quarterly sampling event.

- 3) Samples collected from groundwater monitoring wells MW-1, MW-2, MW-4, MW-5, MW-9, MW-11, MW-12, MW-13, MW-14 and MW-15 should be analyzed for the presence of PAHs annually.

FIGURES

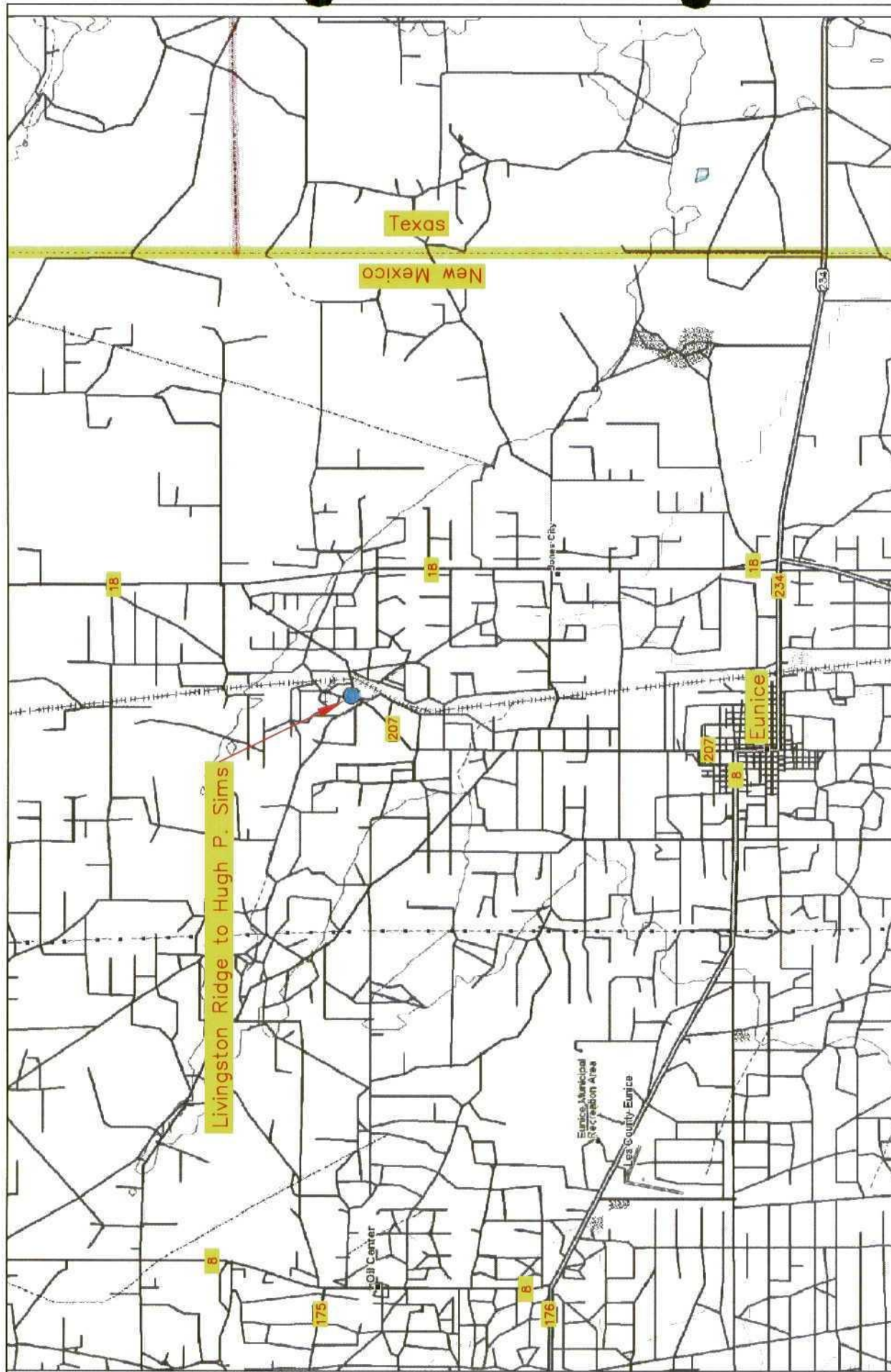


Figure 1 Area Map Plains All American Pipeline, LP Livingston Ridge to Hugh – P. Sims	Lea County, New Mexico NW 1/4 of the SE 1/4, Sec. 3, T21S, R37E N 32° 30' 12.3" W 103° 08' 54.8" Elevation: 3,423 feet amsl		DWG By: Iain Olness February 2005	REVISED:
	0 1.5 3.0 Miles		0 1.5 3.0 SHEET 1 of 1	

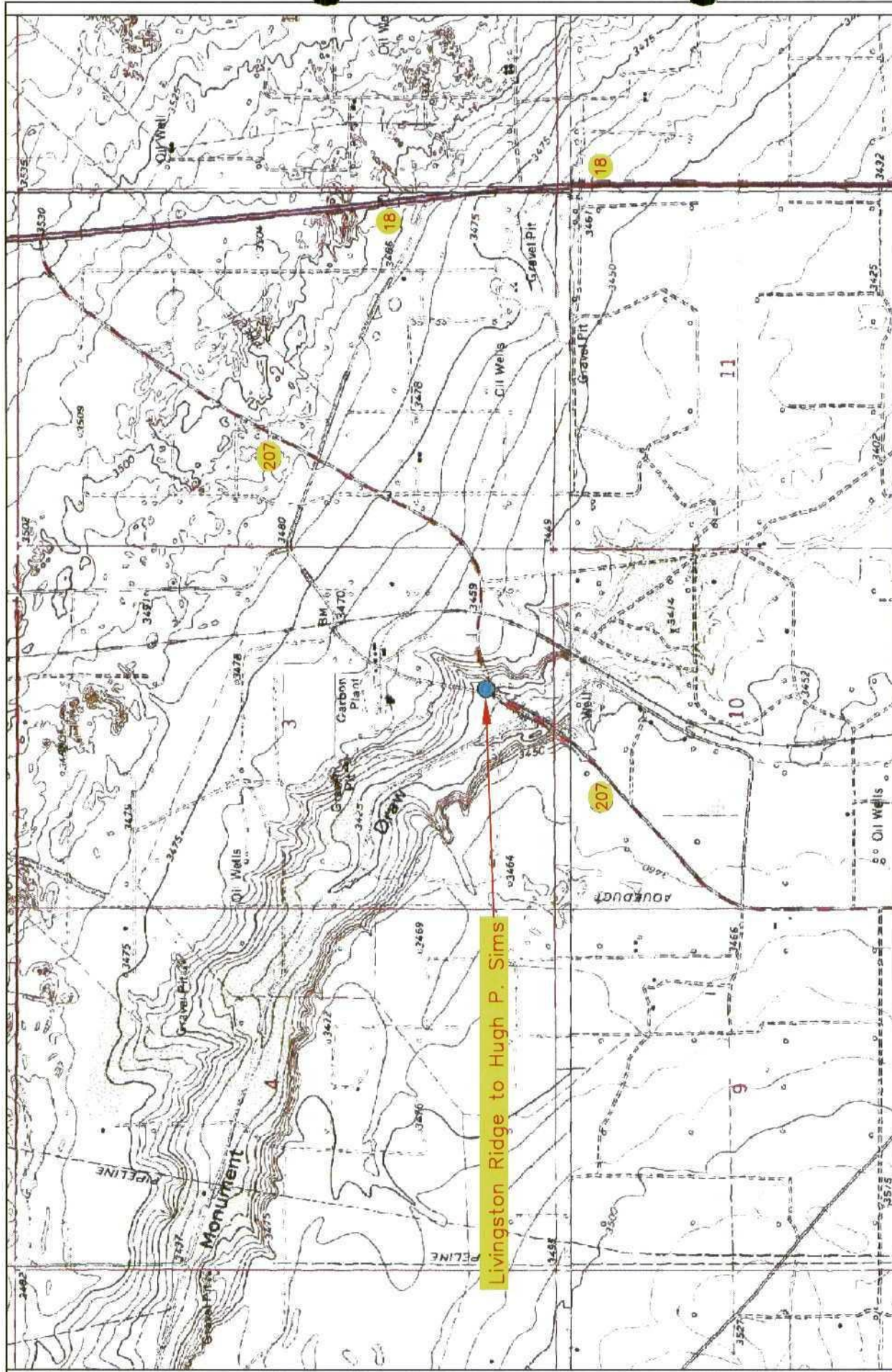
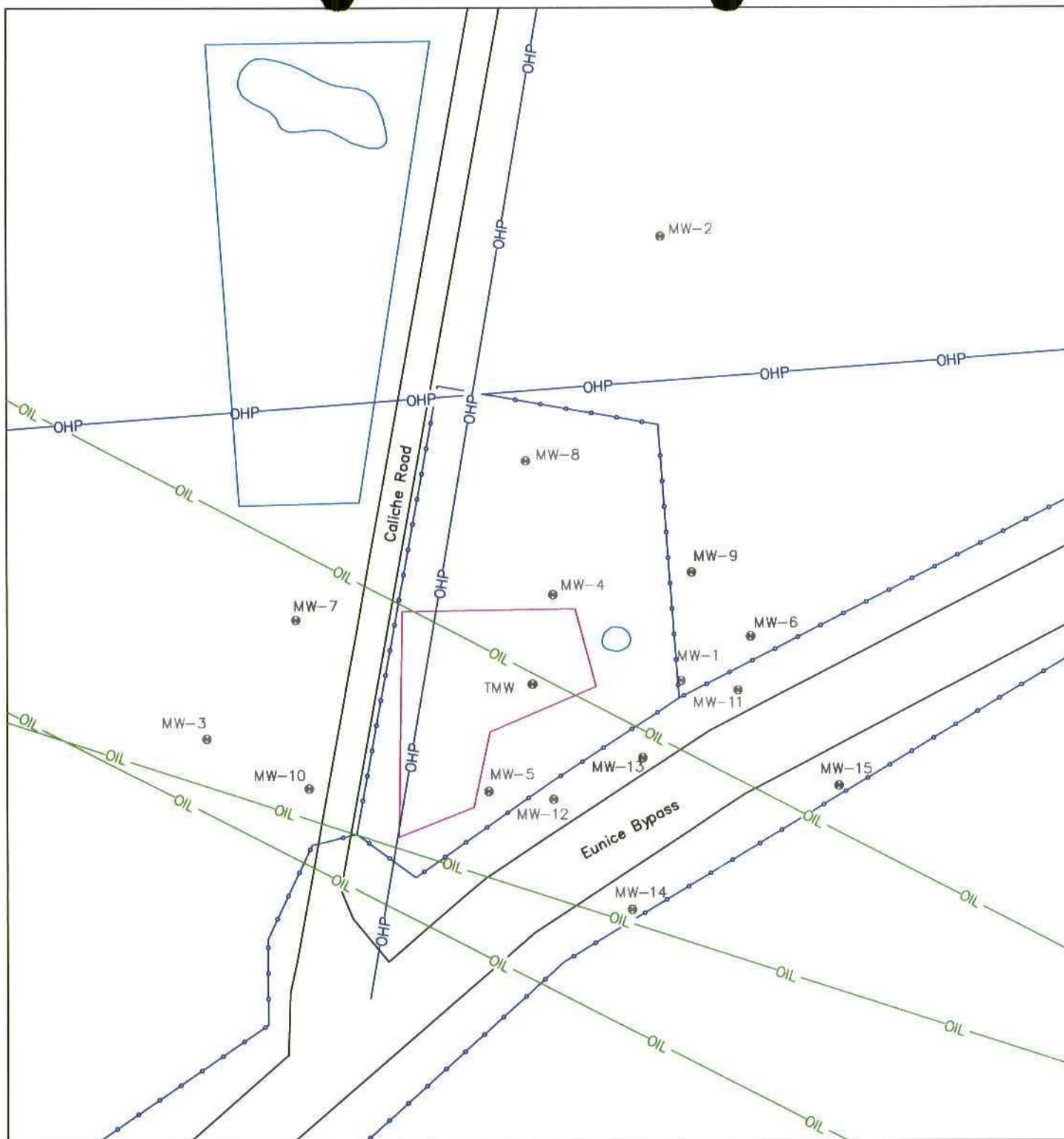


Figure 2 Site Location Map Plains All American Pipeline, LP Livingston Ridge to Hugh — P. Sims	Lea County, New Mexico NW 1/4 of the SE 1/4, Sec. 3, T21S, R37E N 32° 30' 12.3" W 103° 08' 54.8" Elevation: 3,423 feet amsl	DWG By: Iain Olness February 2005 REVISED: 0 2,000 4,000 Feet 1 of 1 SHEET
--	---	--



LEGEND

- - - - - Dirt Road - Access Road

—•—•— Fence

— OIL — Oil Pipeline

⊗ Monitoring Well

Figure 3

Site Map

Link Energy, LLC

Livingston Ridge to Hugh - P. Sims

Lea County, New Mexico

NE 1/4 of the SW 1/4, Sec. 3, T21S, R37E

N 32° 30' 18.8" W 103° 09' 6.48"

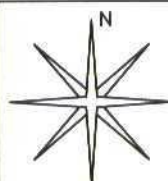
Elevation: 3,427 feet amsl

DWG By: Iain Olness
September 2004

REVISED
Feb. 2005

0 75 150
Feet

SHEET
1 of 1



◆ Benzene ■ Toluene ▲ Ethylbenzene ✕ Total Xylenes

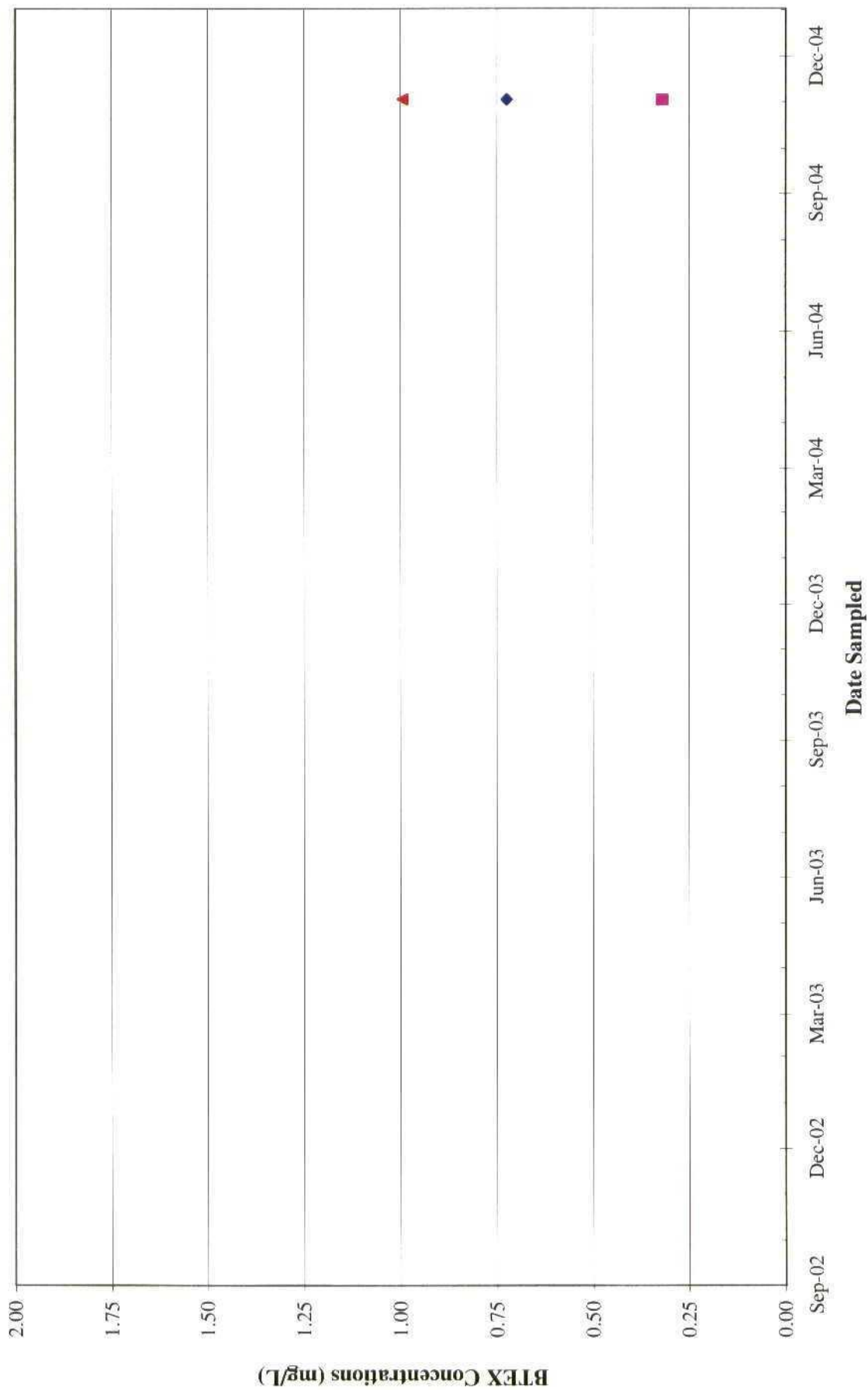


Figure 4: BTEX Concentrations in Groundwater Monitoring Well MW-1 from 09/30/02 through 12/31/04, Plains All American Pipeline Livingston Line to Hugh - P. Sims, Lea County, New Mexico.



Figure 5: BTEX Concentrations in Groundwater Monitoring Well MW-2 from 09/30/02 through 12/31/04, Plains All American Pipeline Livingston Line to Hugh - P. Sims, Lea County, New Mexico.

—◆— Benzene —■— Toluene —▲— Ethylbenzene —*— Total Xylenes

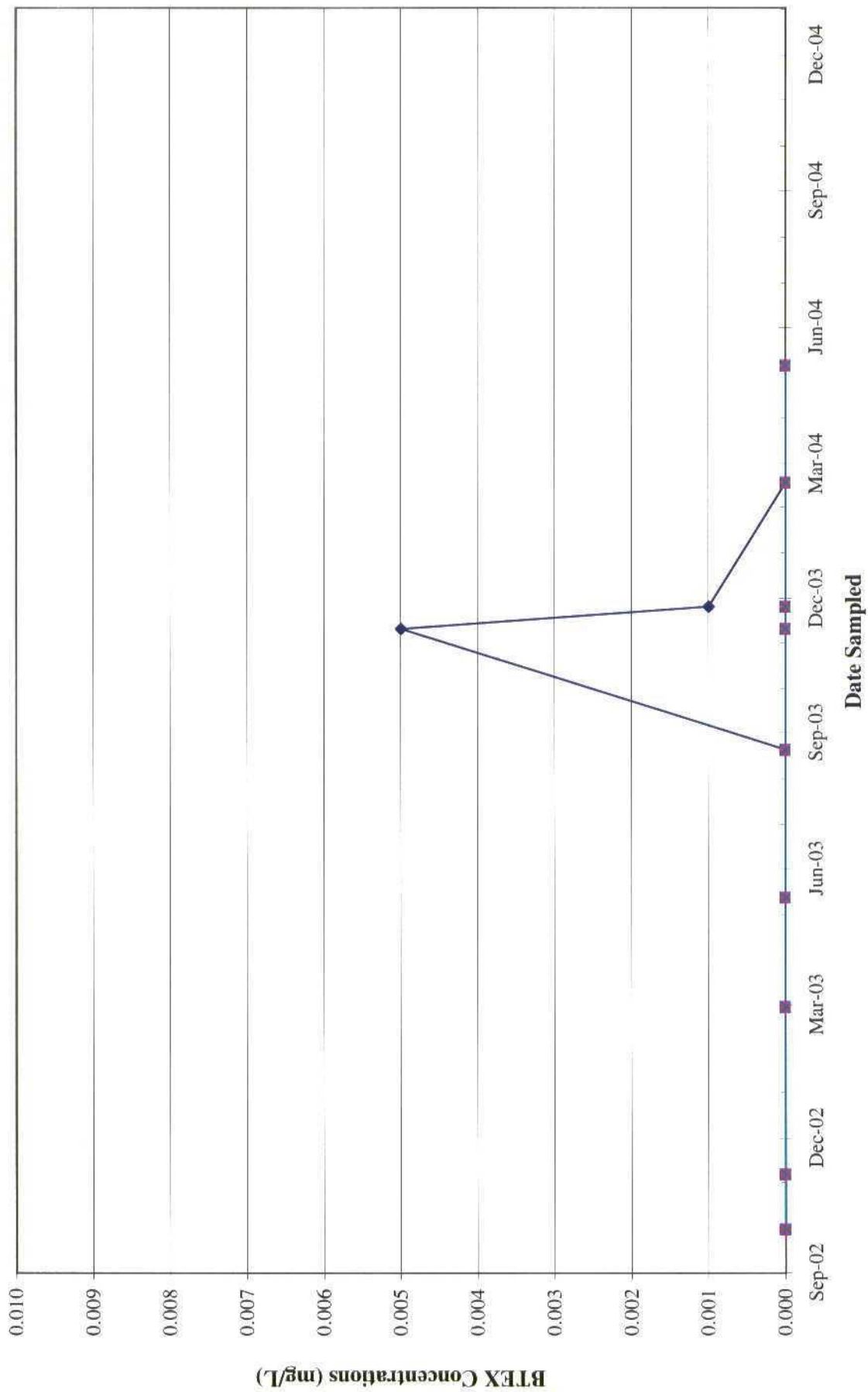


Figure 6: BTEX Concentrations in Groundwater Monitoring Well MW-3 from 09/30/02 through 12/31/04, Plains All American Pipeline Livingston Line to Hugh - P. Sims, Lea County, New Mexico.

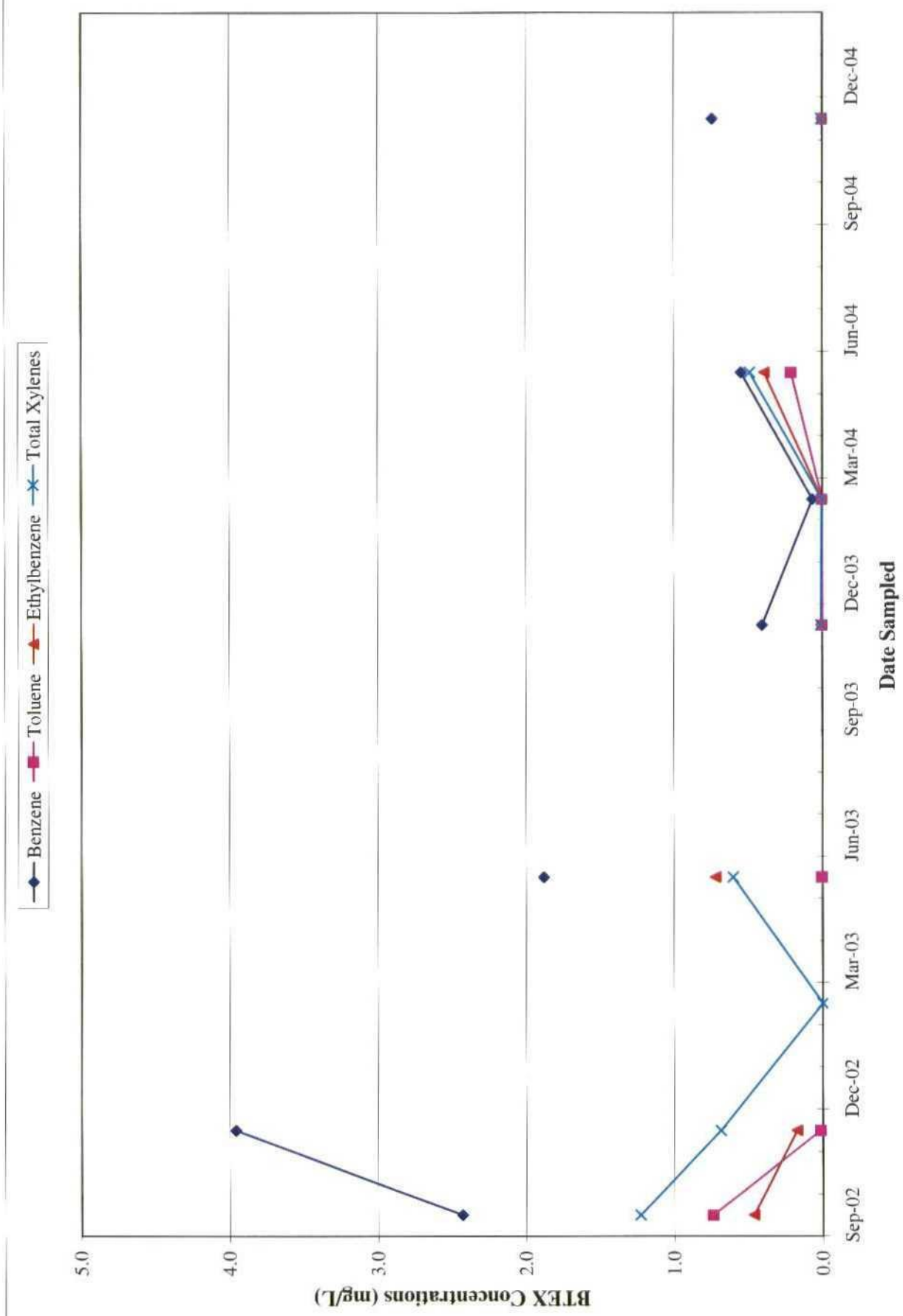


Figure 7: BTEX Concentrations in Groundwater Monitoring Well MW-4 from 09/30/02 through 12/31/04, Plains All American Pipeline Livingstone Line to Hugh - P. Sims, Lea County, New Mexico.

◆ Benzene ■ Toluene ▲ Ethylbenzene × Total Xylenes

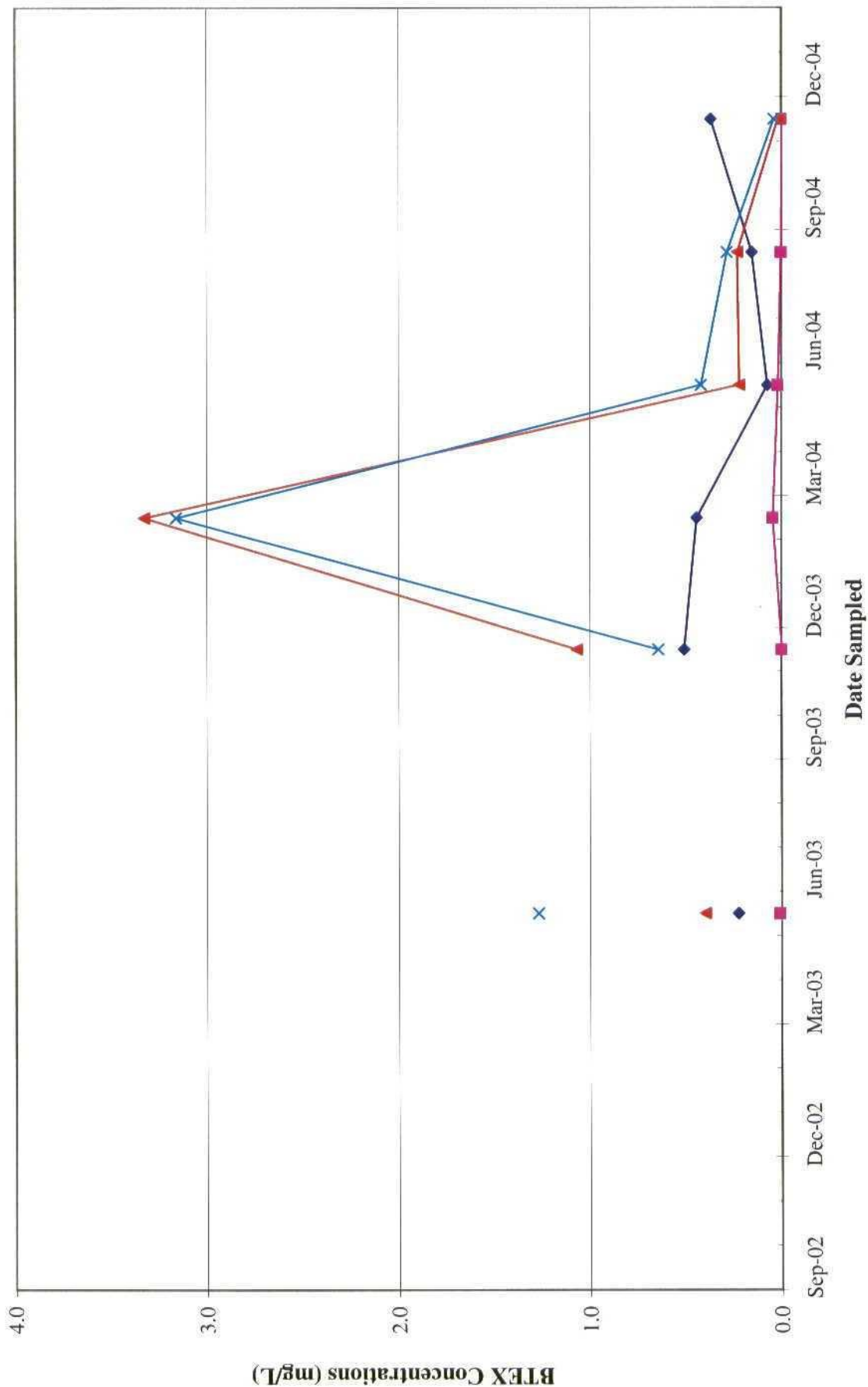


Figure 8: BTEX Concentrations in Groundwater Monitoring Well MW-5 from 09/30/02 through 12/31/04, Plains All American Pipeline Livingston Line to Hugh - P. Sims, Lea County, New Mexico.



Figure 9: BTEX Concentrations in Groundwater Monitoring Well MW-6 from 09/30/02 through 12/31/04, Plains All American Pipeline Livingston Line to Hugh - P. Sims, Lea County, New Mexico.

—◆— Benzene —■— Toluene —▲— Ethylbenzene —✱— Total Xylenes

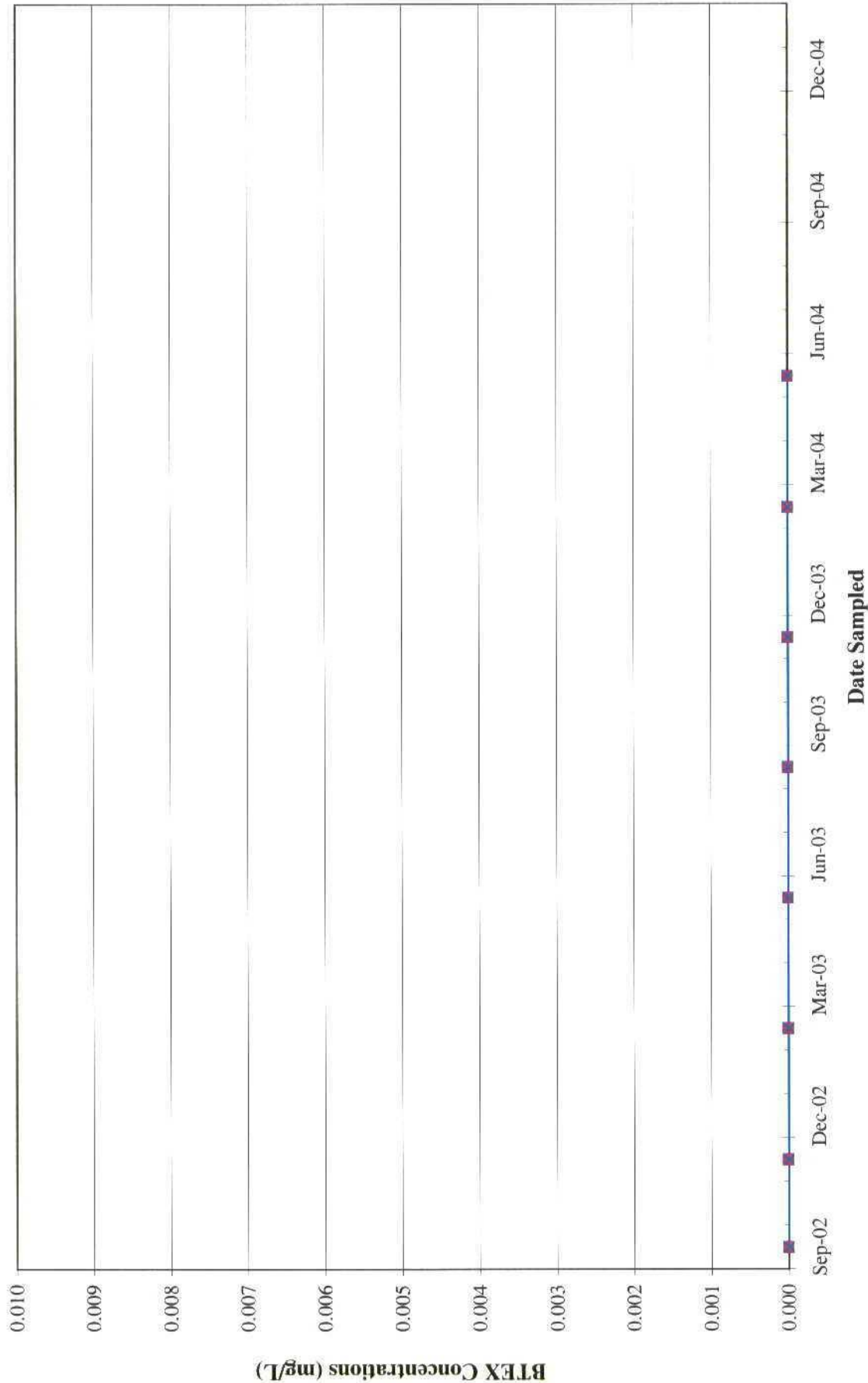


Figure 10: BTEX Concentrations in Groundwater Monitoring Well MW-7 from 09/30/02 through 12/31/04, Plains All American Pipeline Livingston Line to Hugh - P. Sims, Lea County, New Mexico.

—◆— Benzene —■— Toluene —▲— Ethylbenzene —✱— Total Xylenes

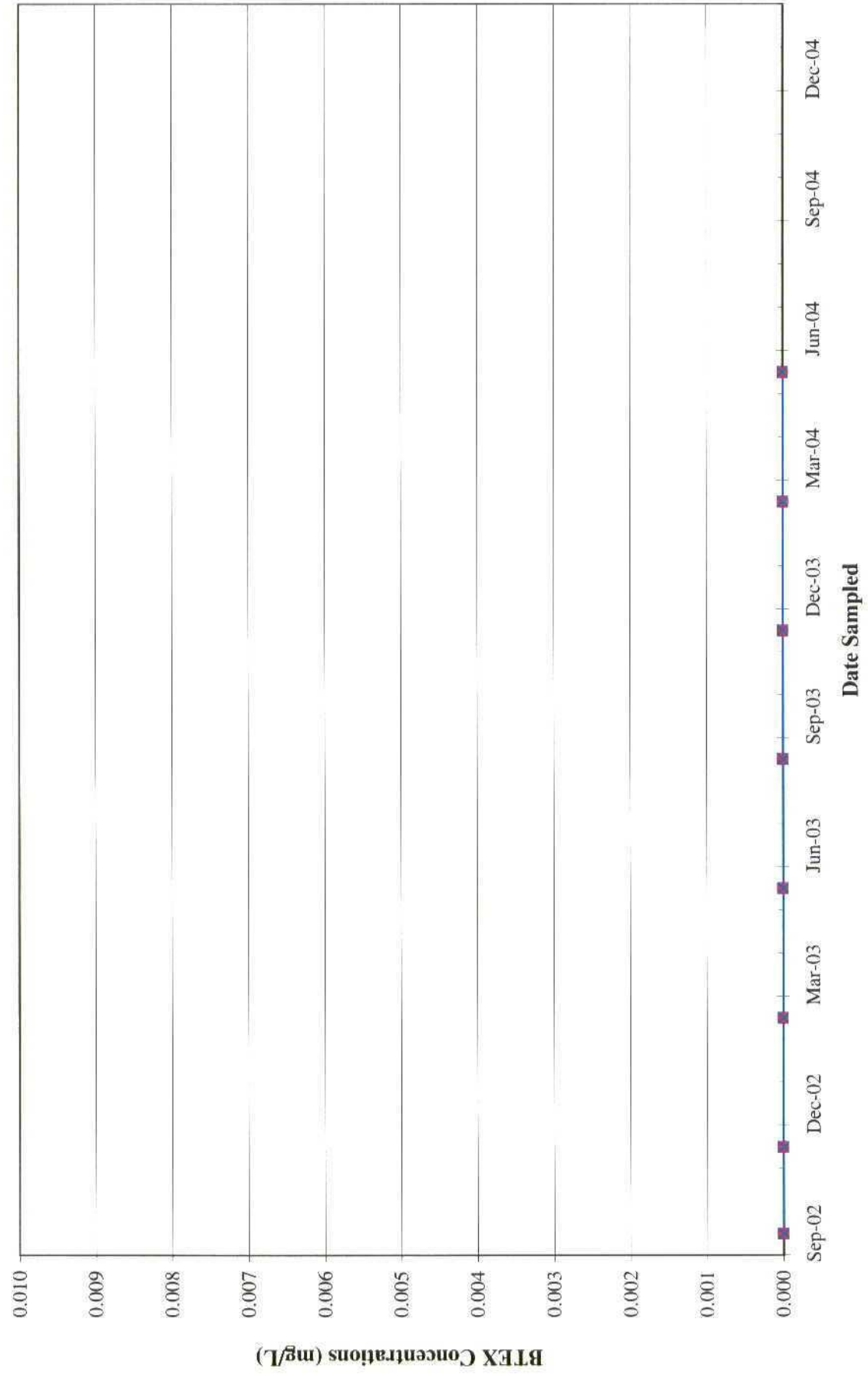


Figure 11: BTEX Concentrations in Groundwater Monitoring Well MW-8 from 09/30/02 through 12/31/04, Plains All American Pipeline Livingston Line to Hugh - P. Sims, Lea County, New Mexico.



Figure 12: BTEX Concentrations in Groundwater Monitoring Well MW-9 from 09/30/02 through 12/31/04, Plains All American Pipeline Livingston Line to Hugh - P. Sims, Lea County, New Mexico.

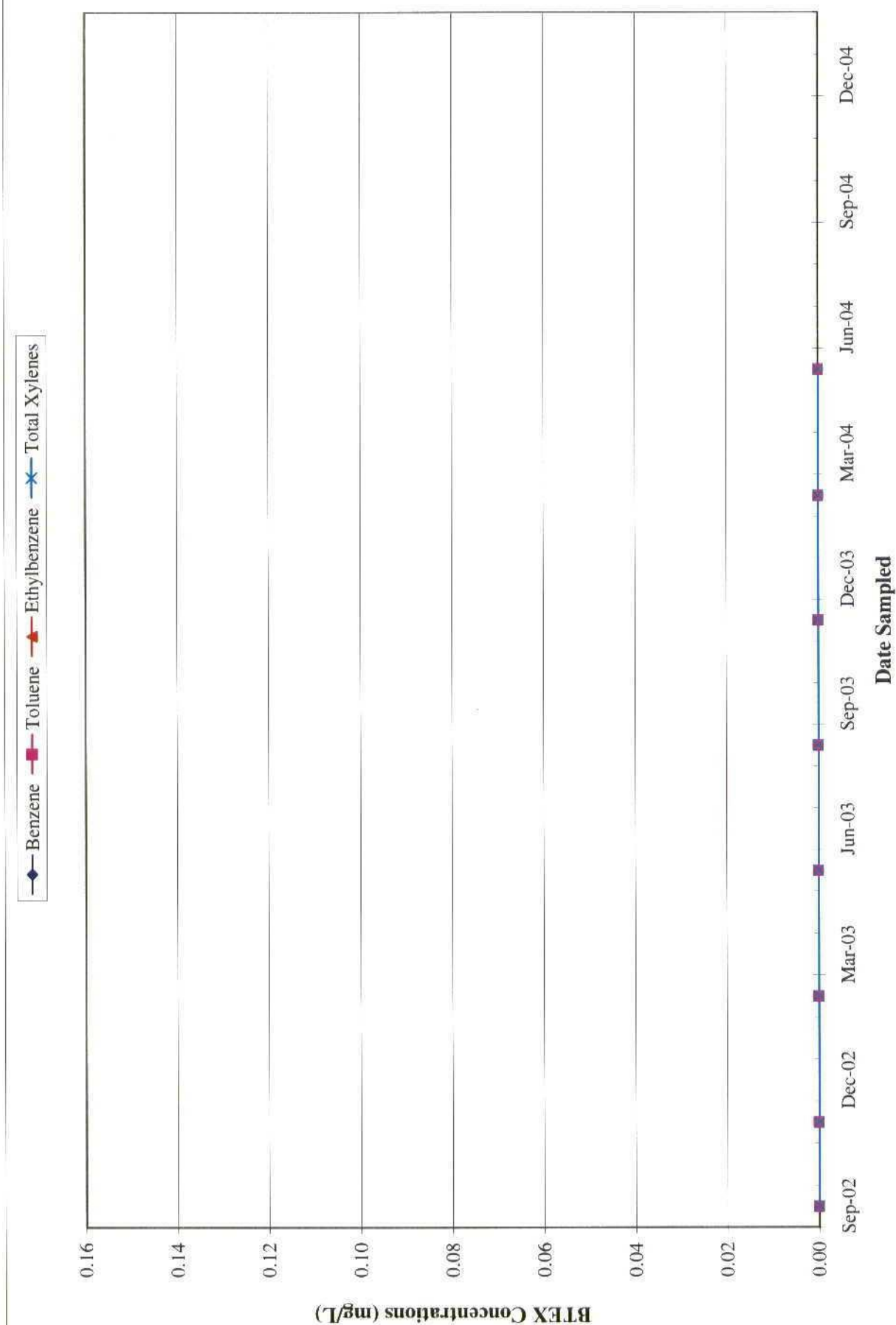


Figure 13: BTEX Concentrations in Groundwater Monitoring Well MW-10 from 09/30/02 through 12/31/04, Plains All American Pipeline Livingston Line to Hugh - P. Sims, Lea County, New Mexico.

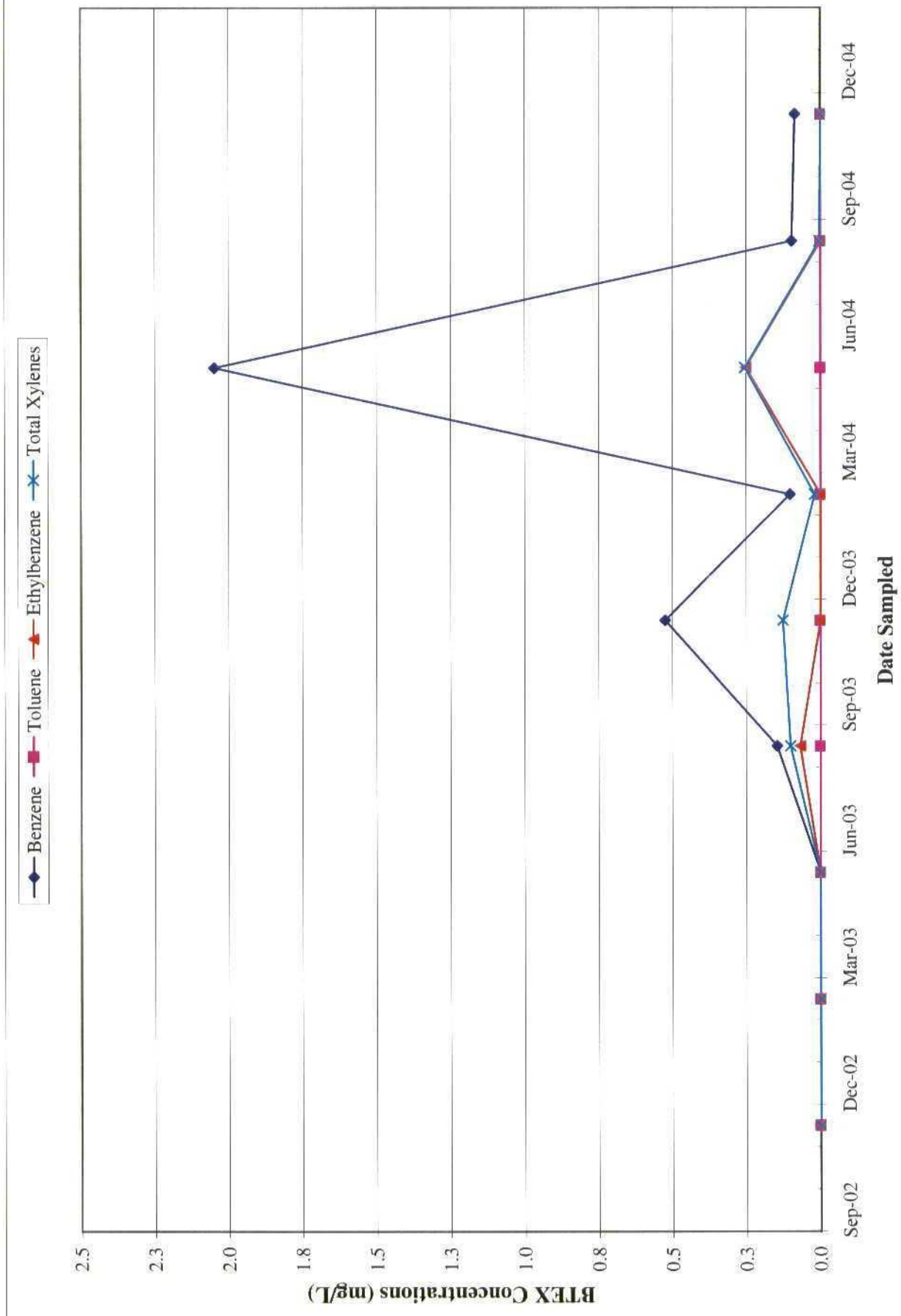


Figure 14: BTEX Concentrations in Groundwater Monitoring Well MW-11 from 11/06/02 through 12/31/04, Plains All American Pipeline Livingston Line to Hugh - P. Sims, Lea County, New Mexico.

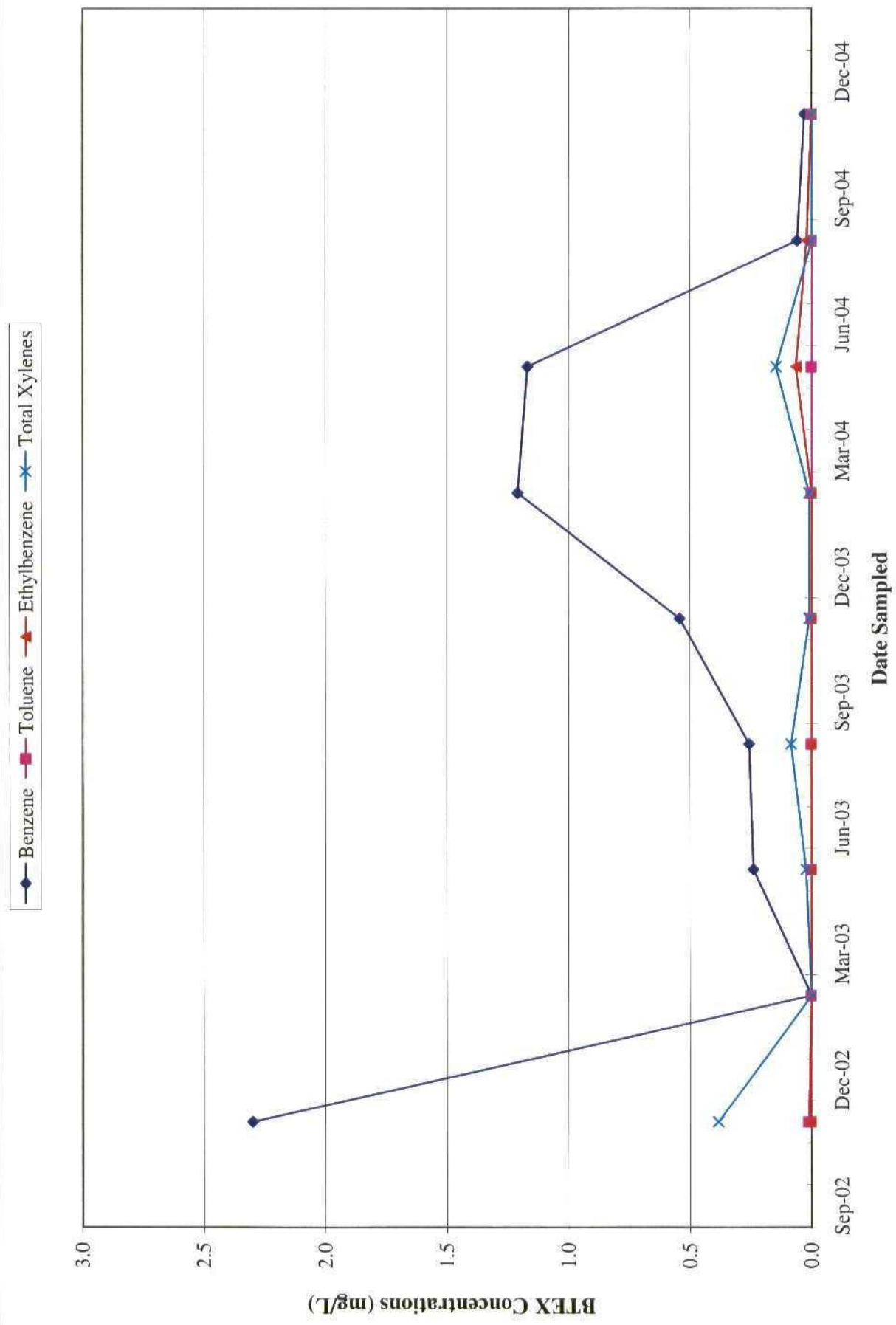


Figure 15: BTEX Concentrations in Groundwater Monitoring Well MW-12 from 11/06/02 through 12/31/04, Plains All American Pipeline Livingston Line to Hugh - P. Sims, Lea County, New Mexico.

◆ Benzene ■ Toluene ▲ Ethylbenzene ✕ Total Xylenes

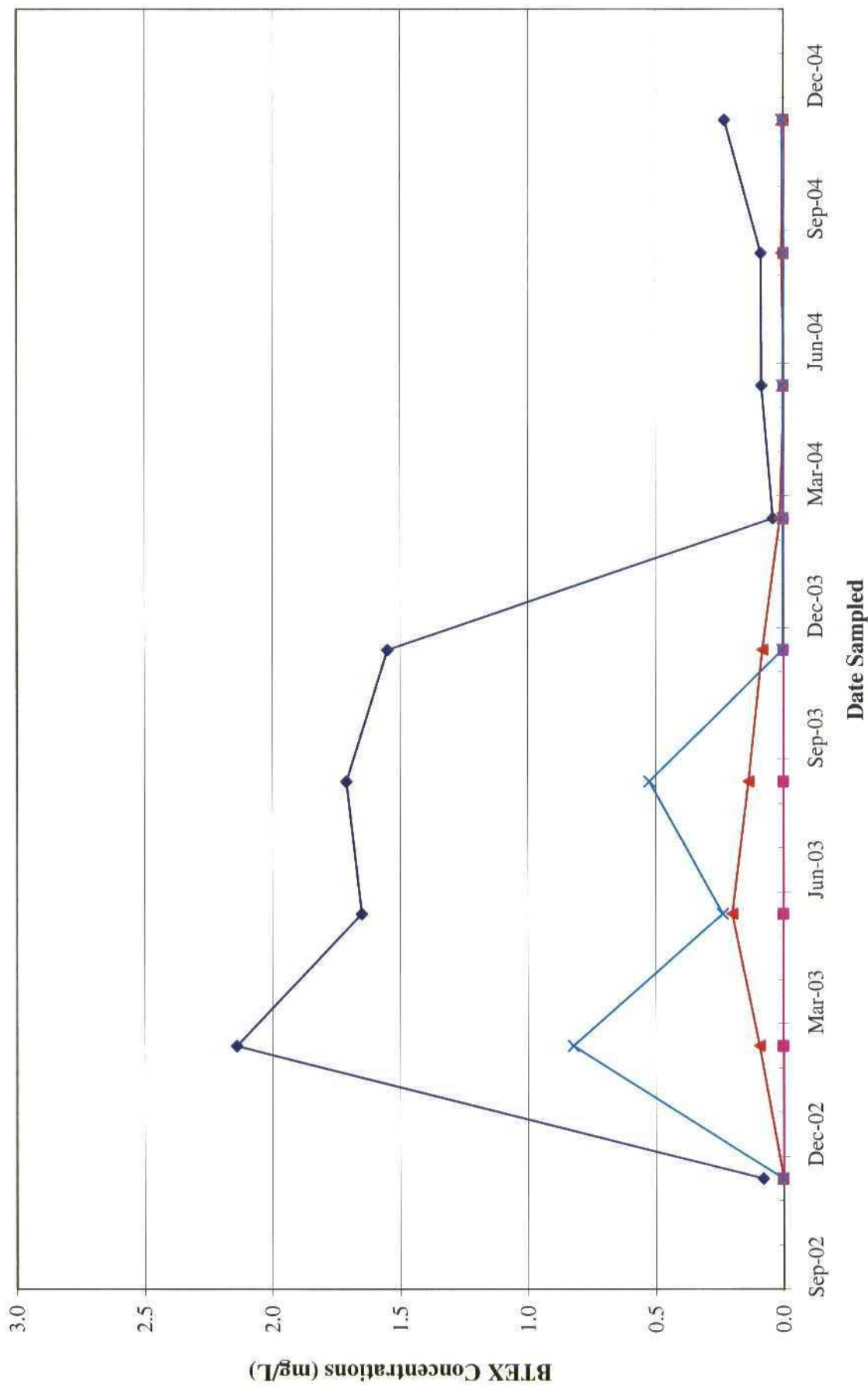


Figure 16: BTEX Concentrations in Groundwater Monitoring Well MW-13 from 11/06/02 through 12/31/04, Plains All American Pipeline Livingston Line to Hugh - P. Sims, Lea County, New Mexico.

Benzene —◆—
 Toluene —■—
 Ethylbenzene —▲—
 Total Xylenes —×—

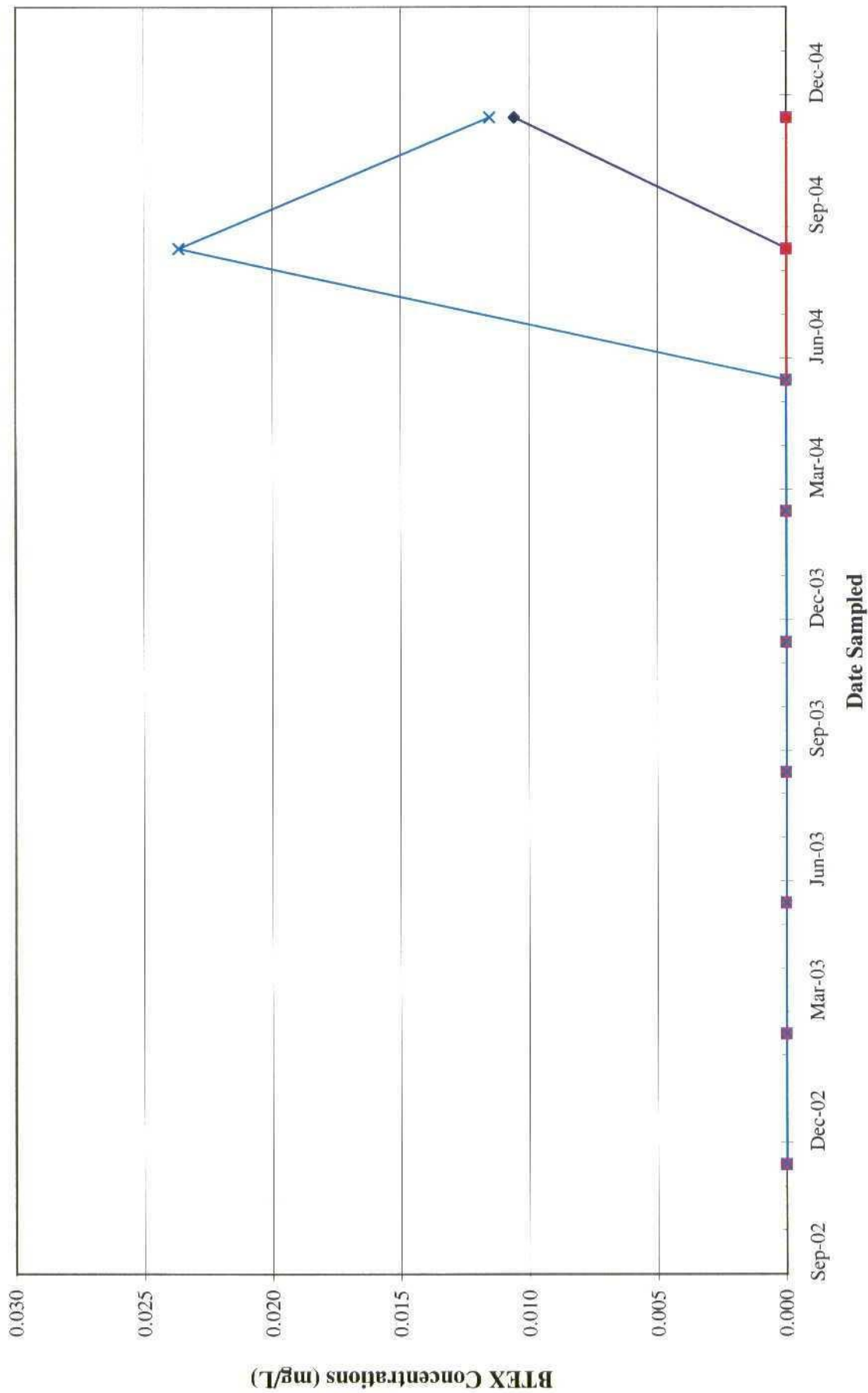


Figure 17: BTEX Concentrations in Groundwater Monitoring Well MW-14 from 11/06/02 through 12/31/04, Plains All American Pipeline Livingston Line to Hugh - P. Sims, Lea County, New Mexico.

—◆— Benzene —■— Toluene —▲— Ethylbenzene —✱— Total Xylenes

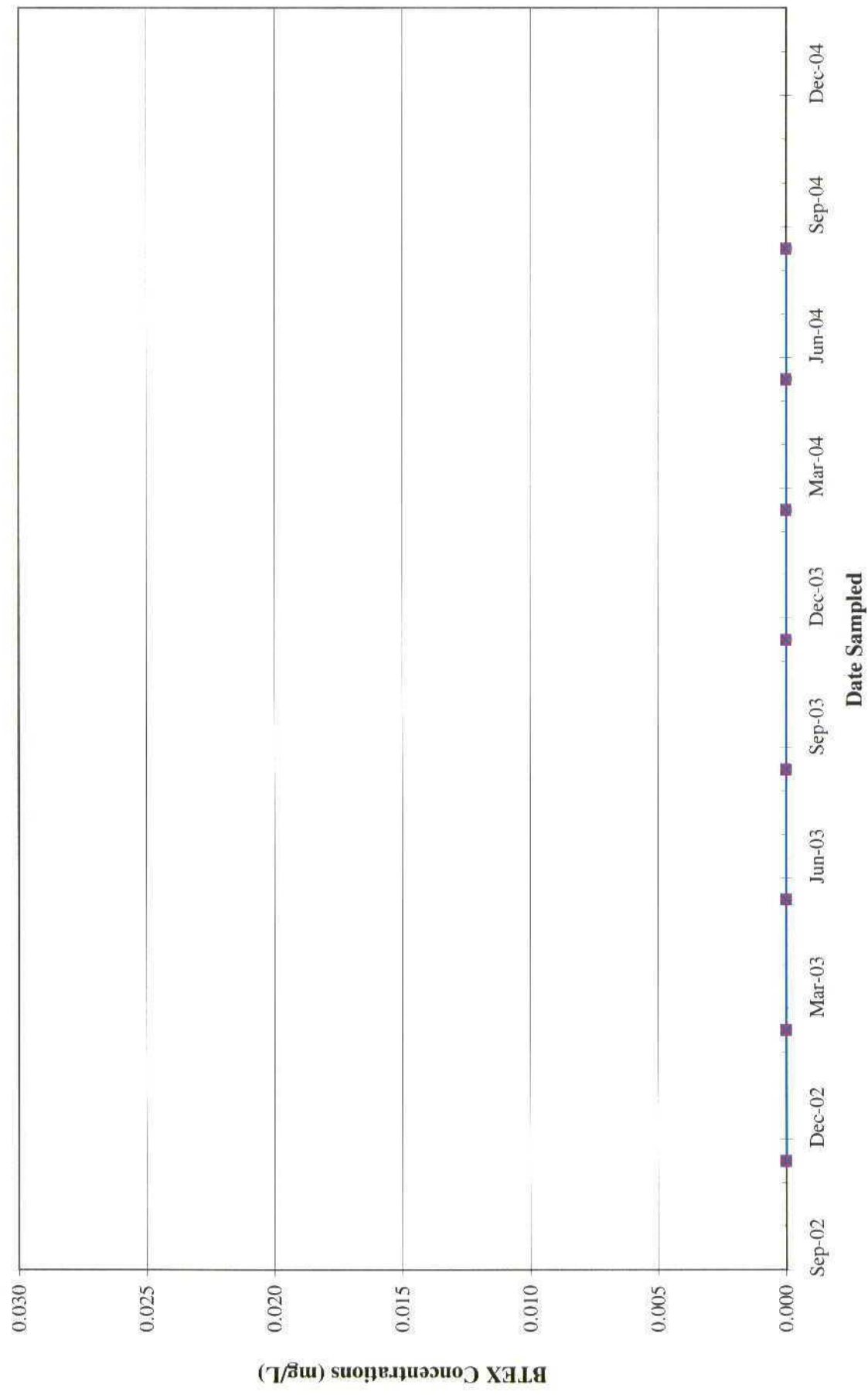


Figure 18: BTEX Concentrations in Groundwater Monitoring Well MW-15 from 11/06/02 through 12/31/04, Plains All American Pipeline Livingston Line to Hugh - P. Sims, Lea County, New Mexico.

◆ Benzene ■ Toluene ▲ Ethylbenzene × Total Xylenes

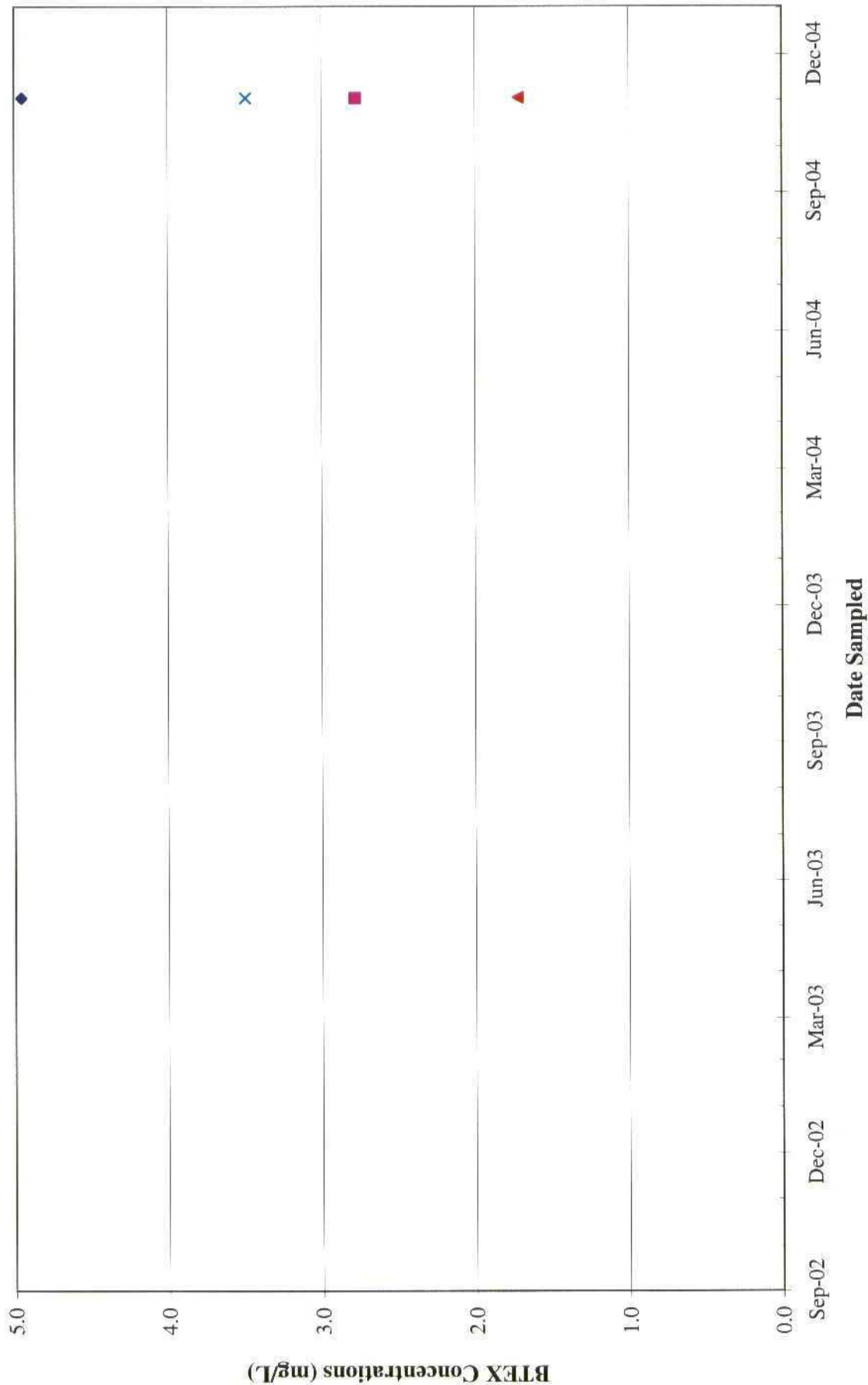


Figure 19: BTEX Concentrations in Groundwater Monitoring Well TMW-1 from 11/06/02 through 12/31/04, Plains All American Pipeline Livingston Line to Hugh - P. Sims, Lea County, New Mexico.

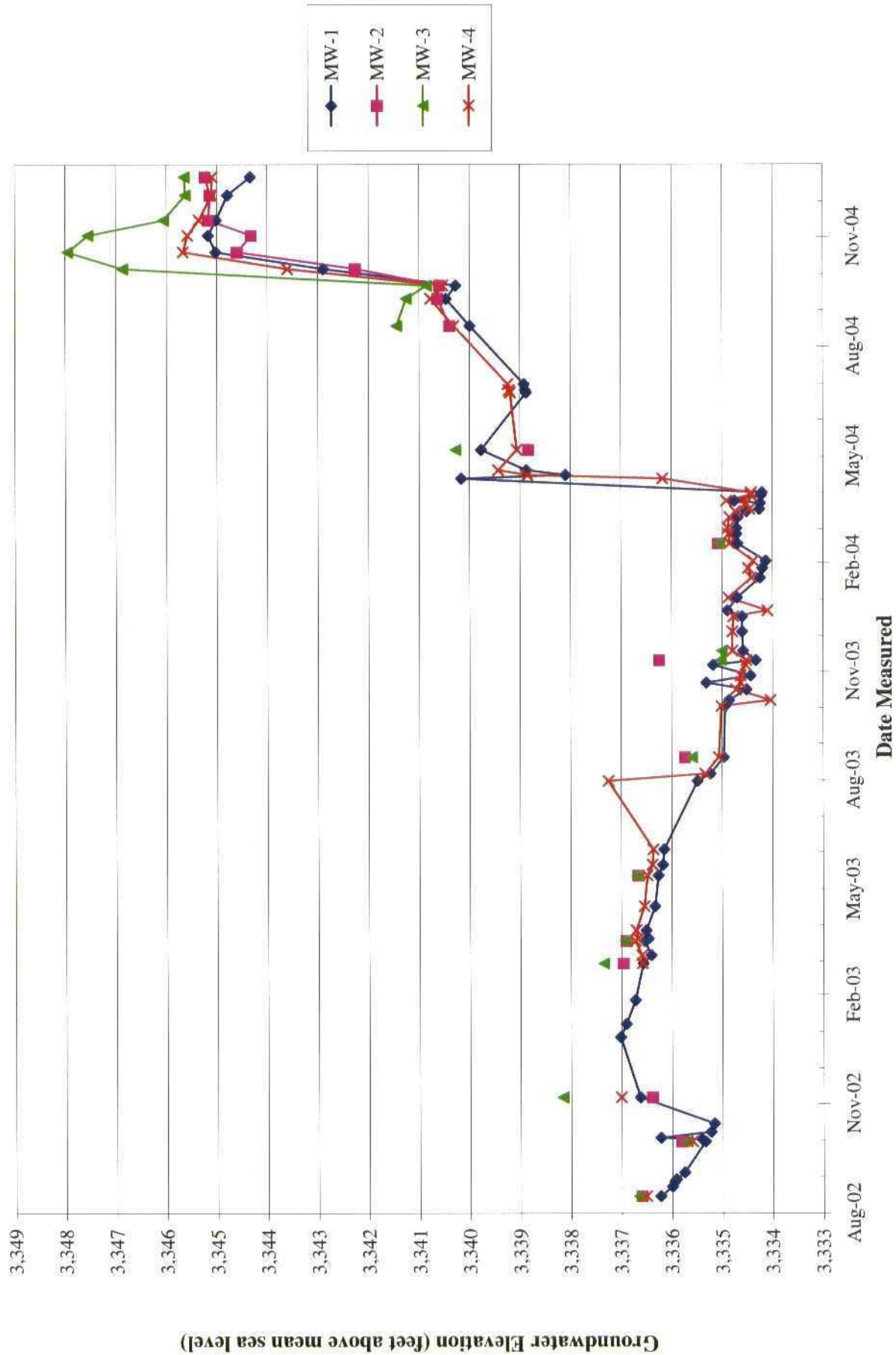


Figure 20: Hydrograph for Plains All American Pipeline Livingston Ridge to Hugh - P. Sims Groundwater Monitoring Wells MW-1 through MW-4, Lea County, New Mexico, from 08/15/02 through 12/31/04.

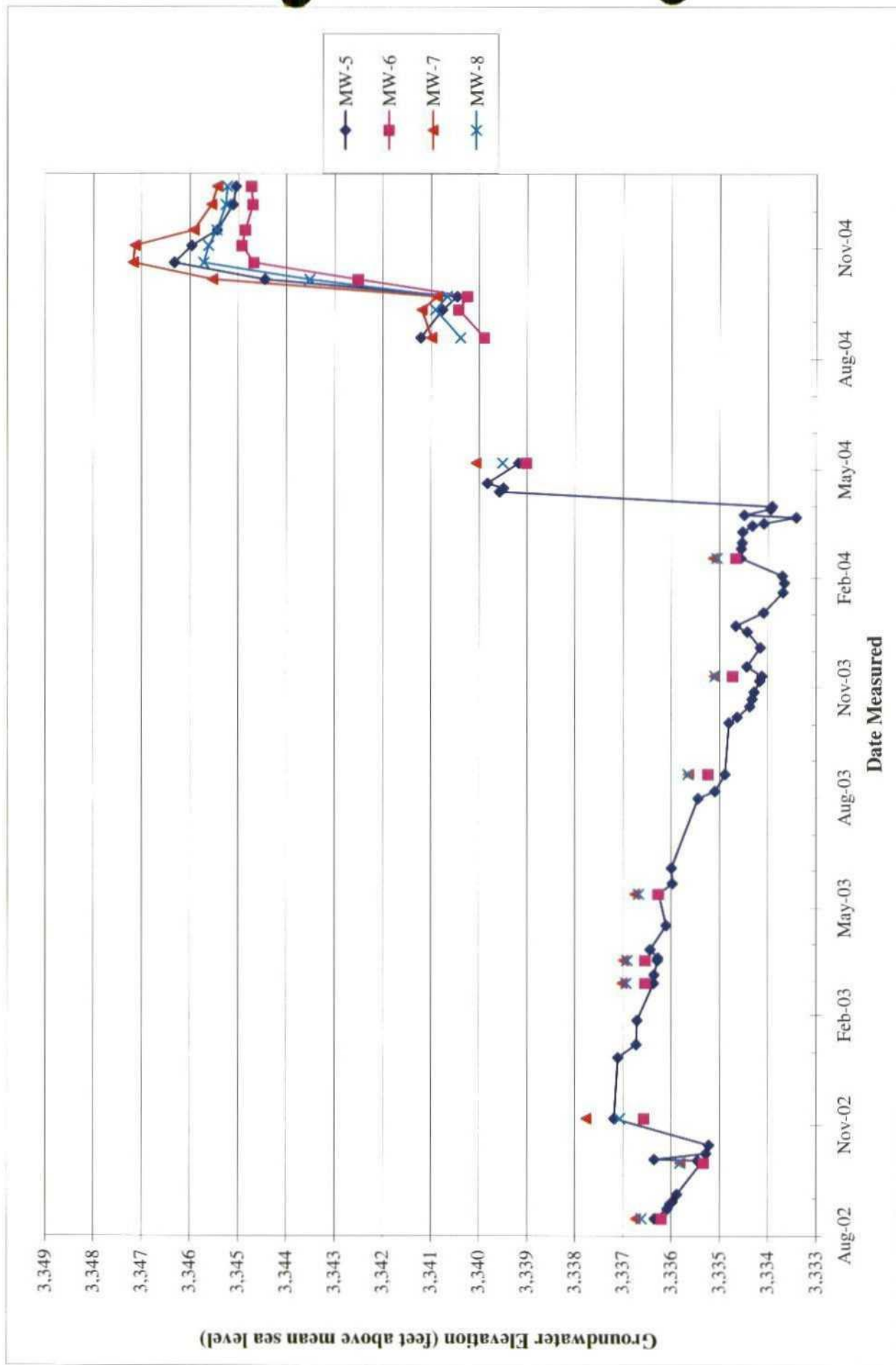


Figure 21: Hydrograph for Plains All American Pipeline Livingston Ridge - Hugh - P. Sims Groundwater Monitoring Wells MW-5 through MW-8, Lea County, New Mexico, from 08/15/02 through 12/31/04.

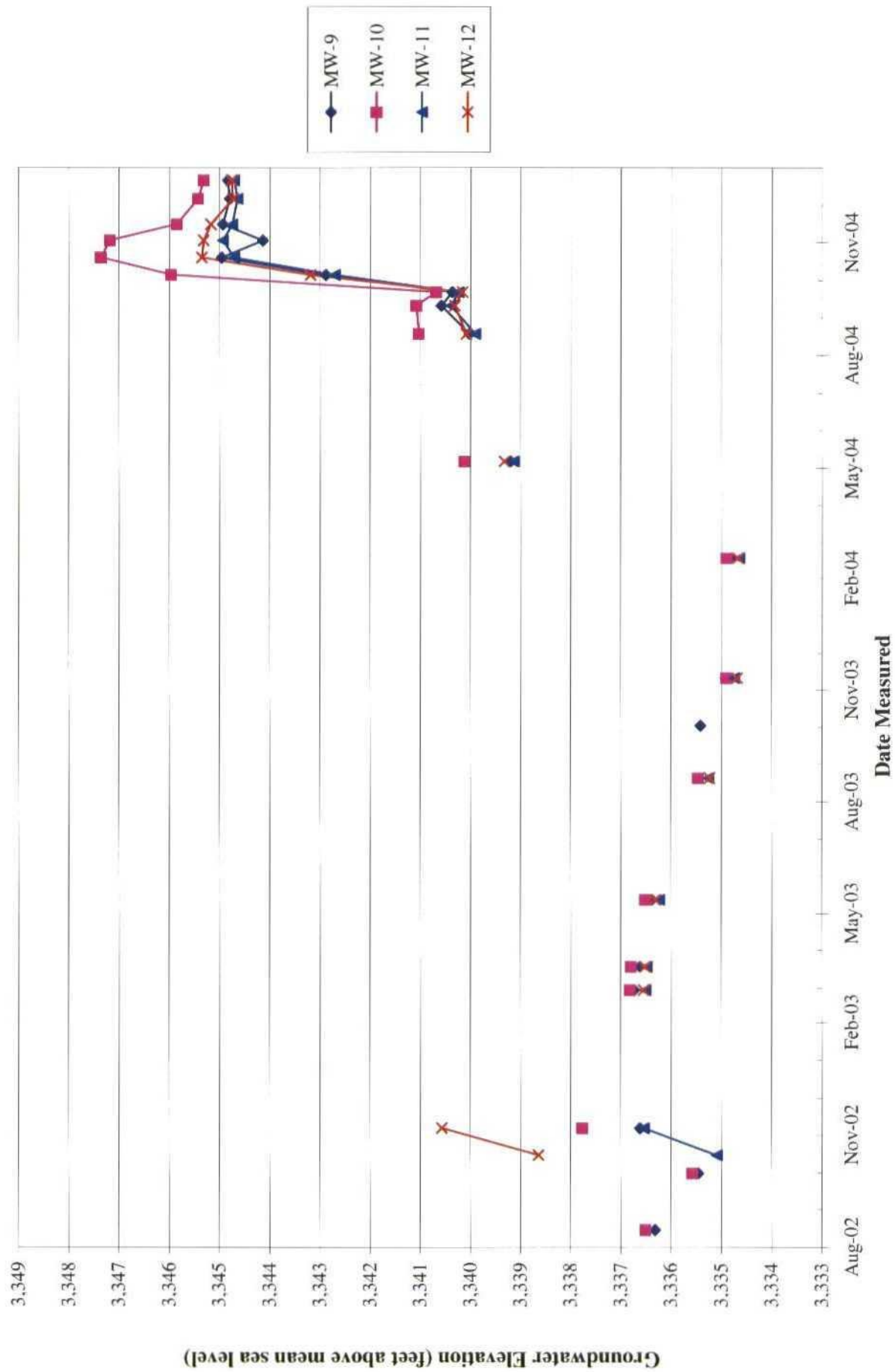


Figure 22: Hydrograph for Plains All American Pipeline Livingston Ridge - Hugh - P. Sims Groundwater Monitoring Wells MW-9 through MW-12, Lea County, New Mexico, from 08/15/02 through 12/31/04.

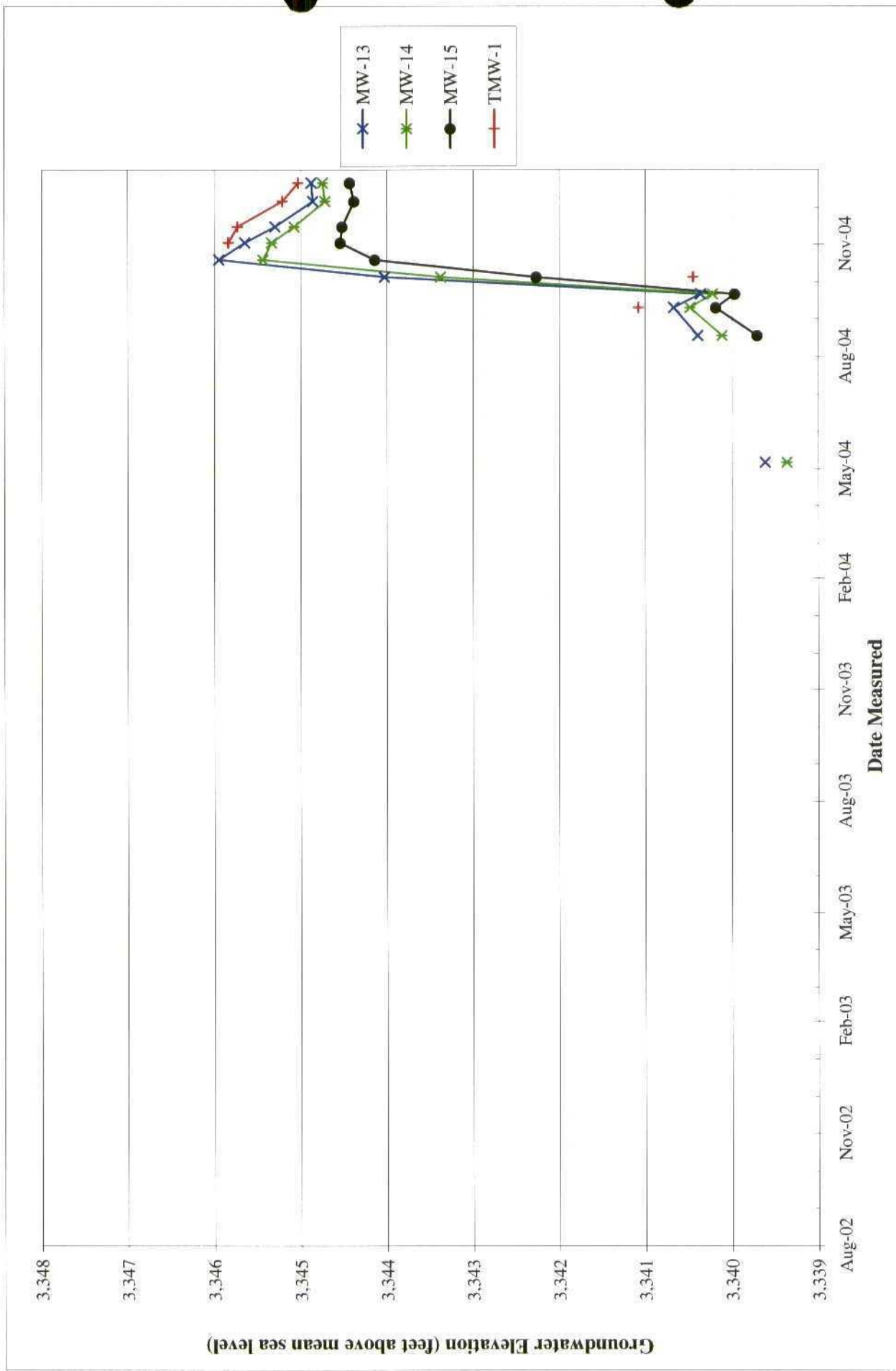


Figure 23: Hydrograph for Plains All American Pipeline Livingston Ridge - Hugh - P. Sims Groundwater Monitoring Wells MW-13 through TMW-1, Lea County, New Mexico, from 08/15/02 through 12/31/04.

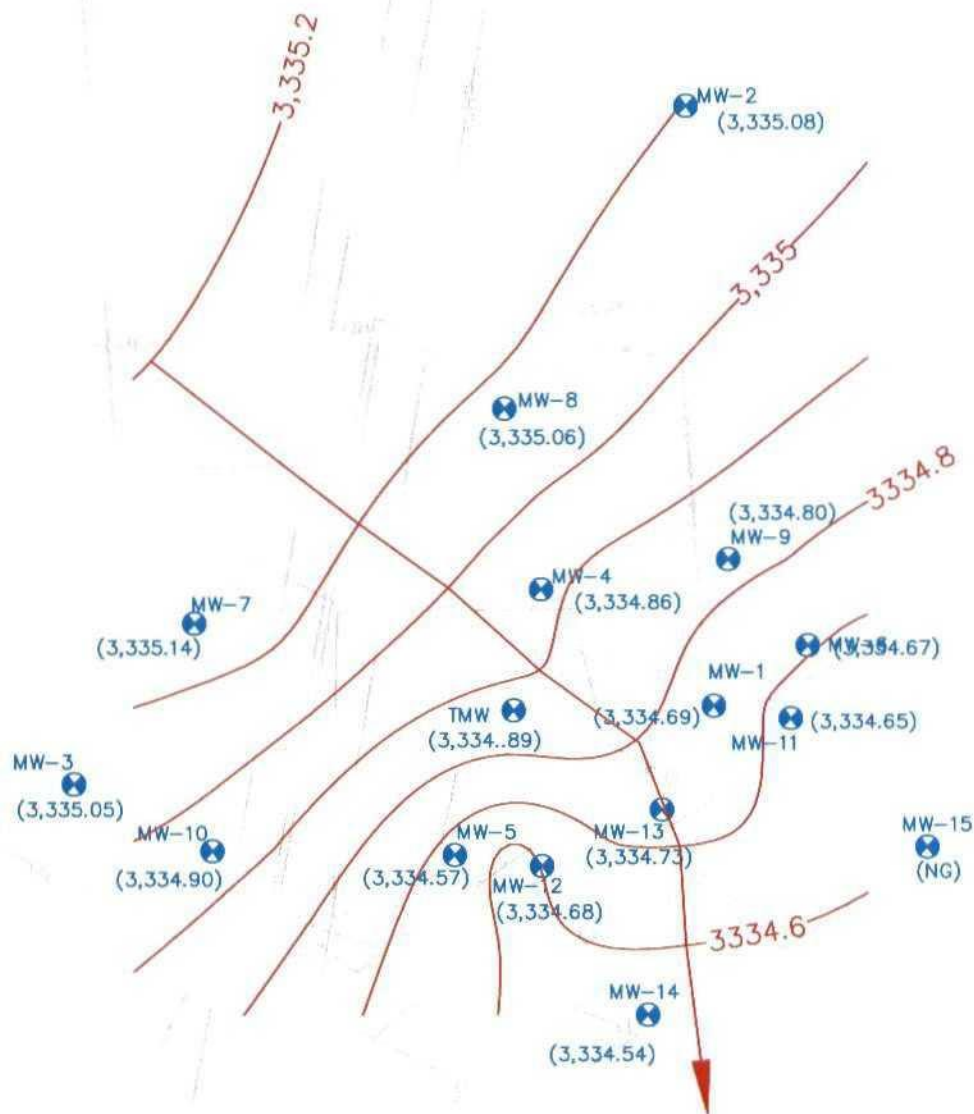


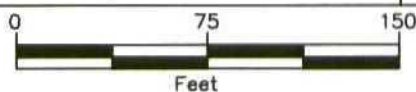
Figure 24
Groundwater Contour Map - 02/17/04
Plains All American Pipeline, L.P.
Livingston Ridge to Hugh - P. Sims

LEGEND		
—○— Dirt Road- Access Road	(3,334)	Groundwater Level
—OIL— Oil Pipeline	— 3,340.5	Groundwater Contour
—+— Fence	—▶—	Approximate Direction of Groundwater Flow
⊕ Monitoring Well		

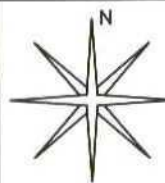
Lea County, New Mexico
NE 1/4 of the SW 1/4, Sec. 3, T21S, R37E
N 32° 30' 18.8" W 103° 09' 6.48"
Elevation: 3,427 feet amsl

DWG By: Iain Olness
September 2004

REVISED
Feb. 2005



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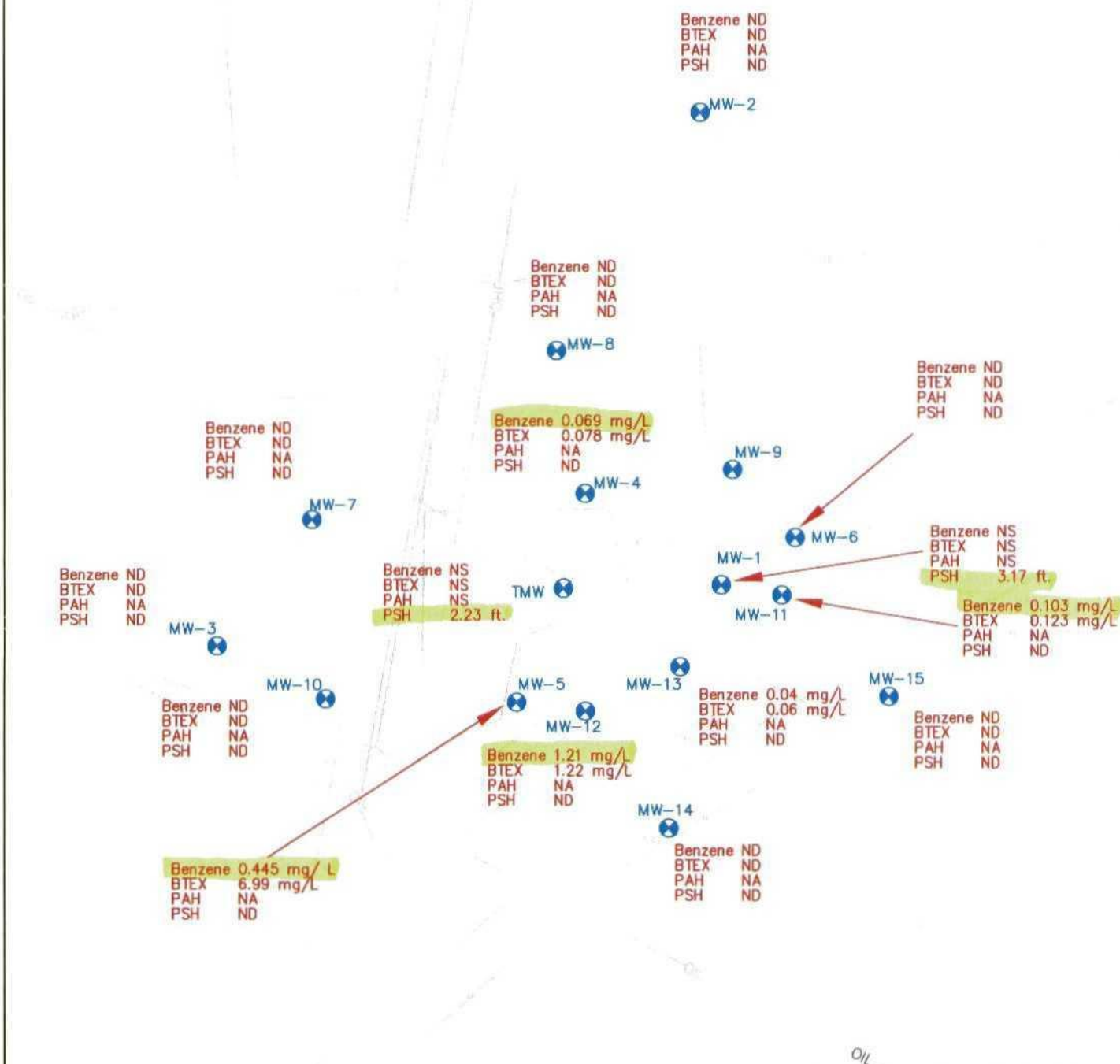
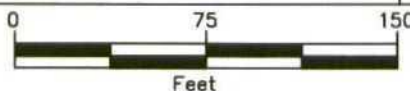
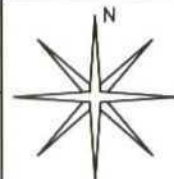


Figure 25 Contaminant Concentration Map - 02/17/04 Plains All American Pipeline, L.P. Livingston Ridge to Hugh - P. Sims	LEGEND Dirt Road- Access Road Oil Pipeline Fence Monitoring Well			NS Not Sampled PAH Poly-aromatic Hydrocarbons PSH Phase Separated Hydrocarbons	NA Not Analyzed ND Not Detected BTEX Benzene, toluene, ethylbenzene, total xylenes
	Lea County, New Mexico NE 1/4 of the SW 1/4, Sec. 3, T21S, R37E N 32° 30' 18.8" W 103° 09' 6.48" Elevation: 3,427 feet amsl	DWG By: Iain Olness September 2004	REvised Feb. 2005		



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1 of 1



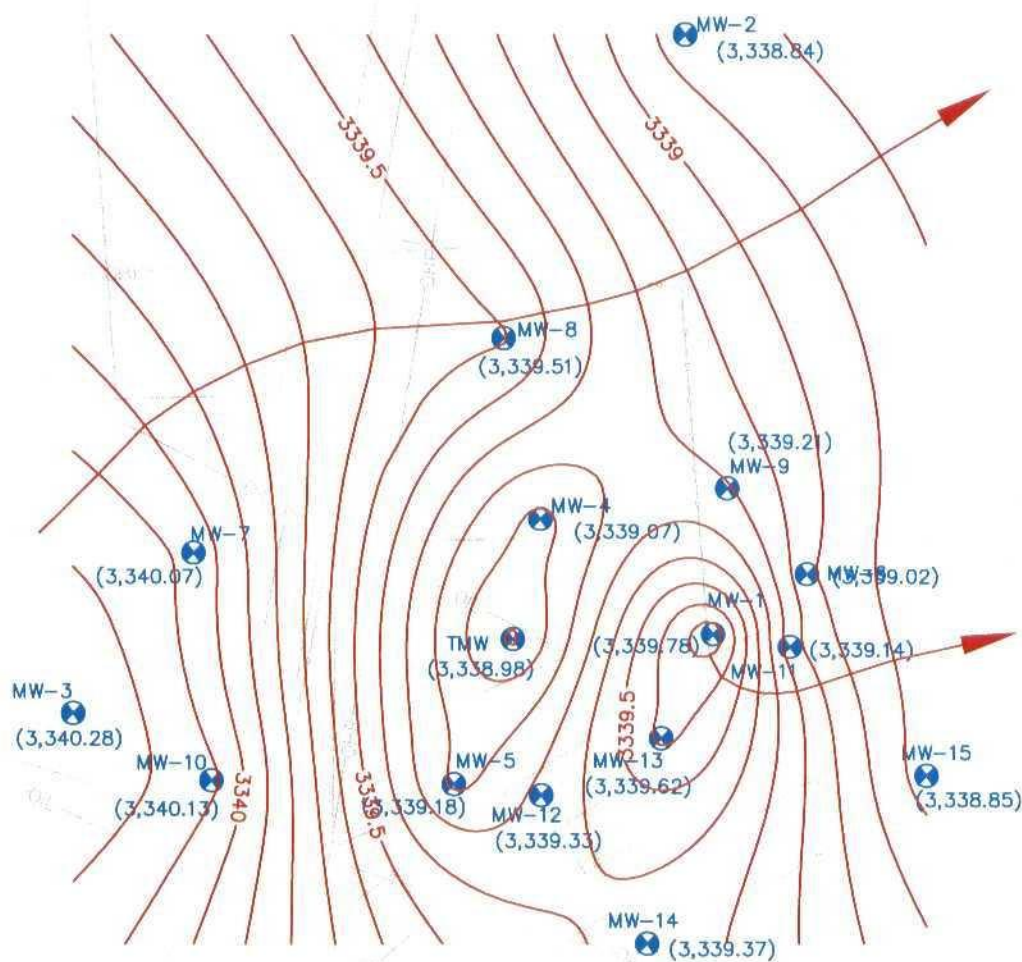


Figure 26
Groundwater Contour Map - 05/06/04
Plains All American Pipeline, L.P.
Livingston Ridge to Hugh - P. Sims

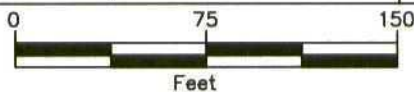
LEGEND

- Dirt Road- Access Road
- OIL — Oil Pipeline
- Fence
- Monitoring Well
- (3,334) Groundwater Level
- 3,340.5 Groundwater Contour
- Approximate Direction of Groundwater Flow

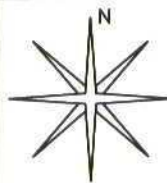
Lea County, New Mexico
NE 1/4 of the SW 1/4, Sec. 3, T21S, R37E
N 32° 30' 18.8" W 103° 09' 6.48"
Elevation: 3,427 feet amsl

DWG By: Iain Olness
September 2004

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Feb. 2005



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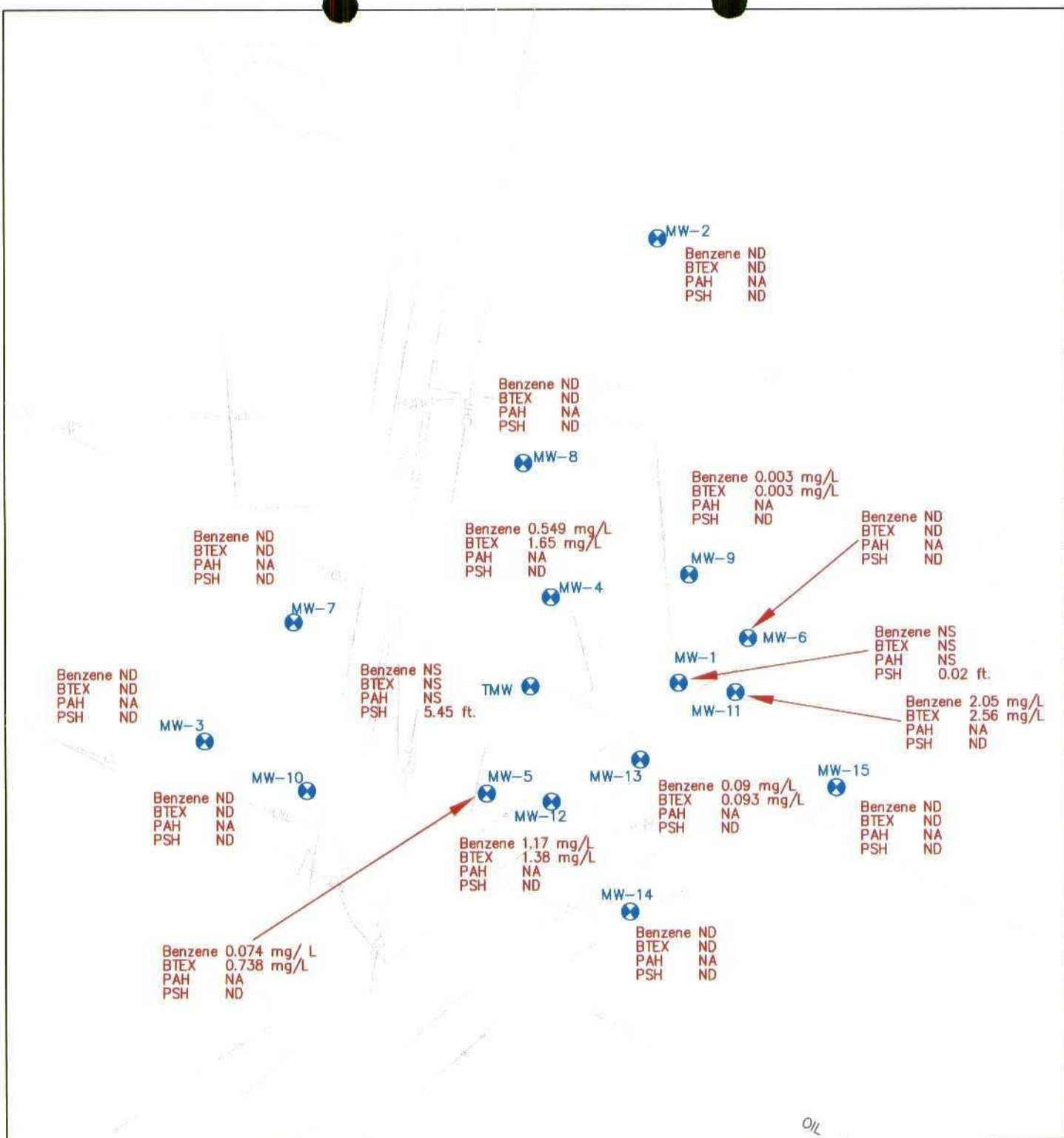
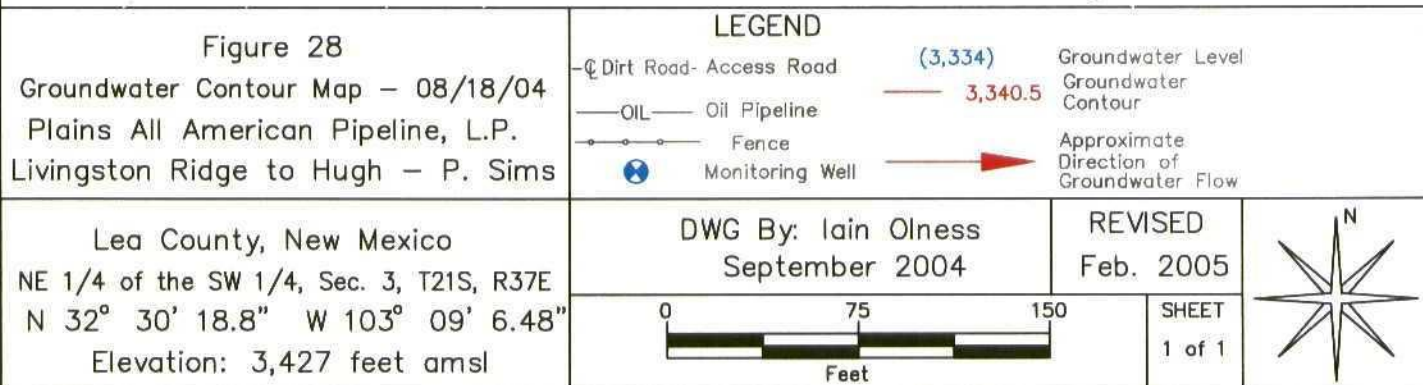
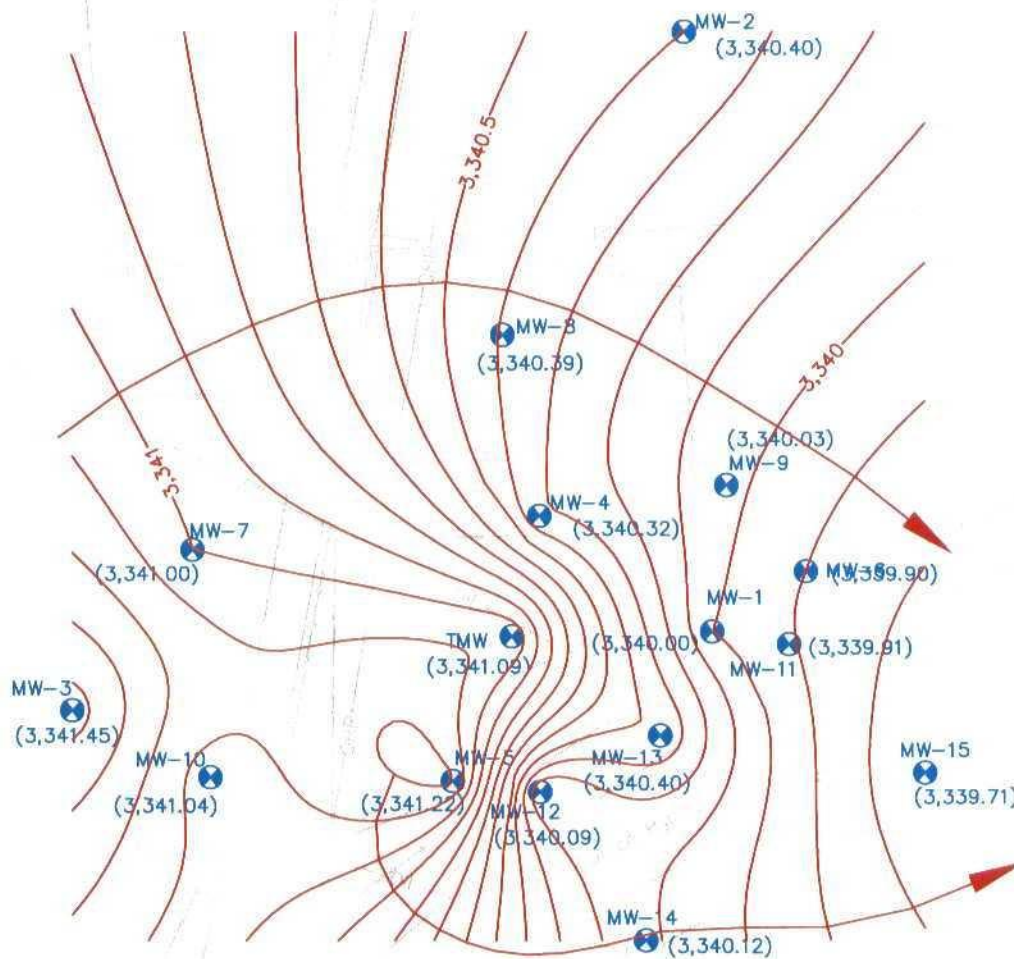


Figure 27 Contaminant Concentration Map – 05/06/04 Plains All American Pipeline, L.P. Livingston Ridge to Hugh – P. Sims	LEGEND Dirt Road- Access Road Oil Pipeline Fence Monitoring Well NS Not Sampled PAH Poly-aromatic Hydrocarbons PSH Phase Separated Hydrocarbons NA Not Analyzed ND Not Detected BTEX Benzene, toluene, ethylbenzene, total xylenes
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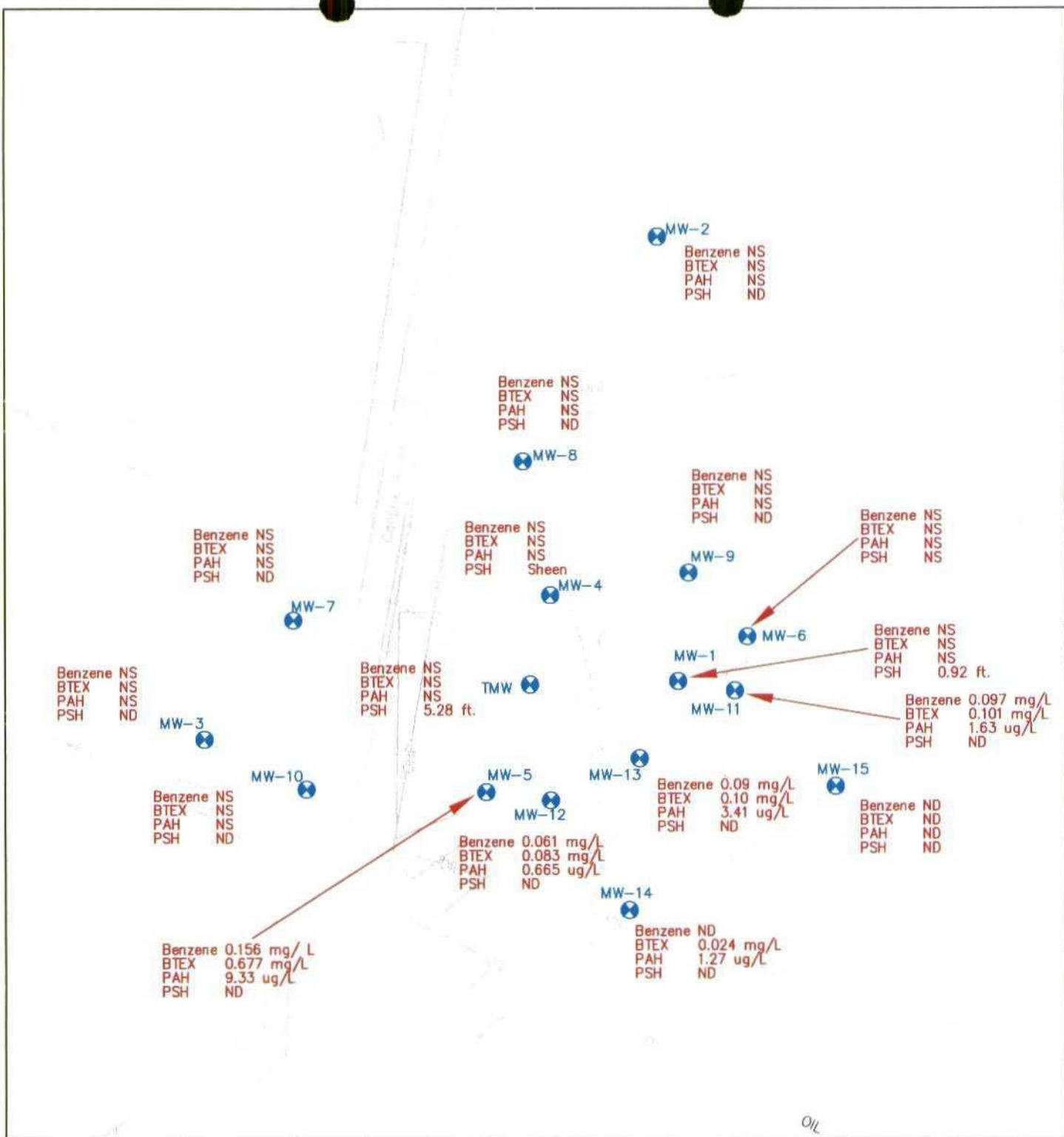


Figure 29 Contaminant Concentration Map - 08/18/04 Plains All American Pipeline, L.P. Livingston Ridge to Hugh - P. Sims	LEGEND Dirt Road- Access Road Oil Pipeline Fence Monitoring Well NS Not Sampled PAH Poly-aromatic Hydrocarbons PSH Phase Separated Hydrocarbons NA Not Analyzed ND Not Detected BTEX Benzene, toluene ethylbenzene, total xylenes
Lea County, New Mexico NE 1/4 of the SW 1/4, Sec. 3, T21S, R37E N 32° 30' 18.8" W 103° 09' 6.48" Elevation: 3,427 feet amsl	DWG By: Iain Olness September 2004 REVISED Feb. 2005 SHEET 1 of 1

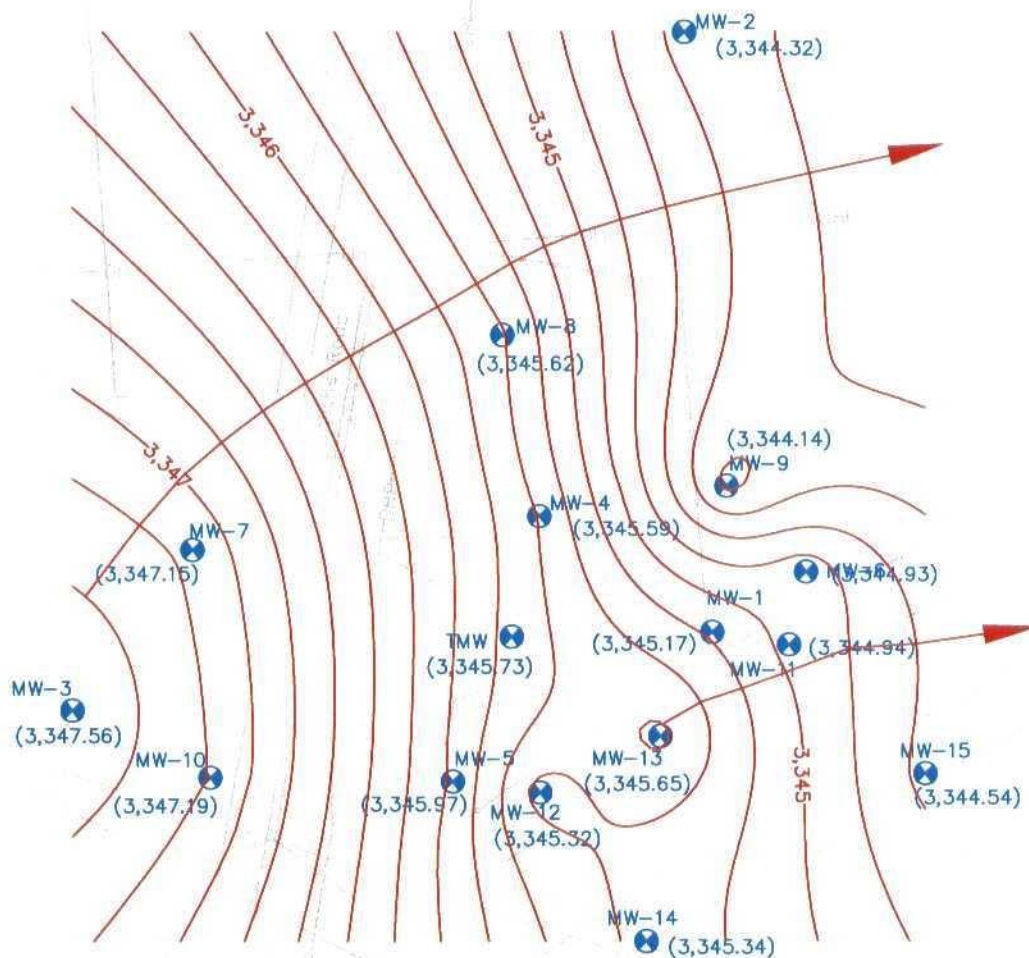


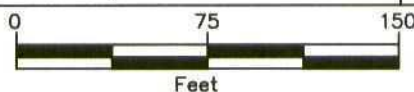
Figure 30
Groundwater Contour Map - 11/02/04
Plains All American Pipeline, L.P.
Livingston Ridge to Hugh - P. Sims

LEGEND	
—○— Dirt Road- Access Road	(3,334) Groundwater Level
—OIL— Oil Pipeline	— 3,340.5 Groundwater Contour
—○— Fence	— Approximate Direction of Groundwater Flow
⊕ Monitoring Well	

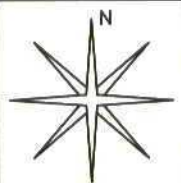
Lea County, New Mexico
NE 1/4 of the SW 1/4, Sec. 3, T21S, R37E
N 32° 30' 18.8" W 103° 09' 6.48"
Elevation: 3,427 feet amsl

DWG By: Iain Olness
September 2004

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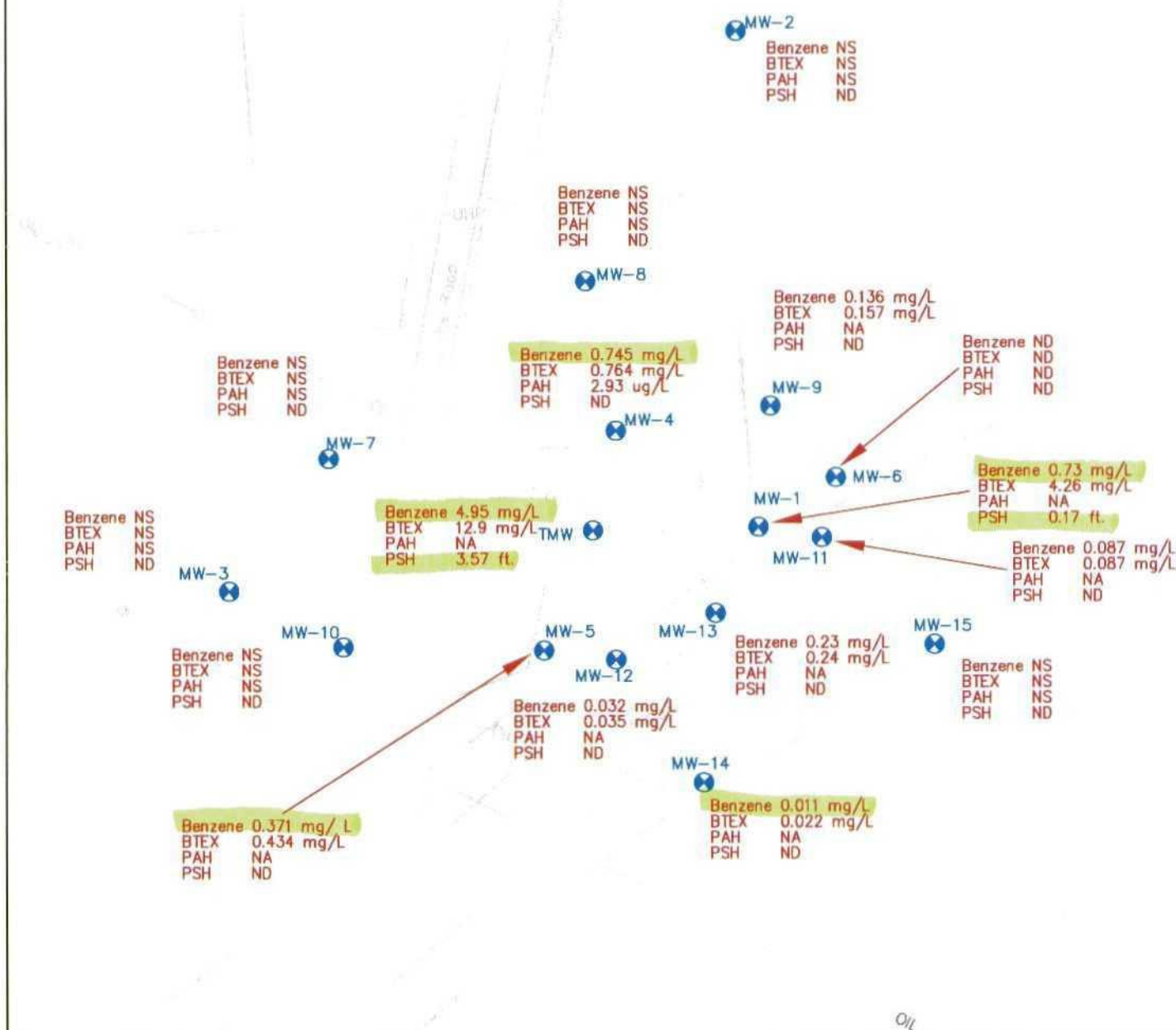


Figure 31
 Contaminant Concentration Map - 11/02/04
 Plains All American Pipeline, L.P.
 Livingston Ridge to Hugh - P. Sims

LEGEND				
 Dirt Road- Access Road	NS	Not Sampled	NA	Not Analyzed
 OIL Oil Pipeline	PAH	Poly-aromatic Hydrocarbons	ND	Not Detected
 Fence	PSH	Phase Separated Hydrocarbons	BTEX	Benzene, toluene ethylbenzene, total xylenes
 Monitoring Well				

Lea County, New Mexico NE 1/4 of the SW 1/4, Sec. 3, T21S, R37E N 32° 30' 18.8" W 103° 09' 6.48" Elevation: 3,427 feet amsl	DWG By: Iain Olness September 2004	REVISED Feb. 2005	
	 Feet		

TABLES

TABLE 1

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

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 1	15-Aug-02	3,374.23	37.24	42.29	5.05	3,336.23
	23-Aug-02	3,374.23	37.52	42.24	4.72	3,336.00
	27-Aug-02	3,374.23	37.58	42.21	4.63	3,335.96
	29-Aug-02	3,374.23	37.68	41.86	4.18	3,335.92
	4-Sep-02	3,374.23	37.81	42.21	4.40	3,335.76
	30-Sep-02	3,374.23	38.28	42.30	4.02	3,335.35
	2-Oct-02	3,374.23	38.20	42.25	4.05	3,335.42
	3-Oct-02	3,374.23	37.24	42.31	5.07	3,336.23
	8-Oct-02	3,374.23	38.40	42.40	4.00	3,335.23
	15-Oct-02	3,374.23	38.49	42.32	3.83	3,335.17
	6-Nov-02	3,374.23	37.03	40.80	3.77	3,336.63
	27-Dec-02	3,374.23	36.64	40.43	3.79	3,337.02
	7-Jan-03	3,374.23	36.85	39.97	3.12	3,336.91
	27-Jan-03	3,374.23	37.14	39.55	2.41	3,336.73
	27-Feb-03	3,374.23	37.10	40.81	3.71	3,336.57
	6-Mar-03	3,374.23	37.70	38.48	0.78	3,336.41
	18-Mar-03	3,374.23	37.13	40.83	3.70	3,336.55
	20-Mar-03	3,374.23	37.22	40.81	3.59	3,336.47
	27-Mar-03	3,374.23	37.22	40.54	3.32	3,336.51
	16-Apr-03	3,374.23	37.36	40.92	3.56	3,336.34
	12-May-03	3,374.23	37.55	40.28	2.73	3,336.27
	21-May-03	3,374.23	37.55	40.87	3.32	3,336.18
	3-Jun-03	3,374.23	37.55	41.03	3.48	3,336.16
	31-Jul-03	3,374.23	38.25	41.50	3.25	3,335.49
	6-Aug-03	3,374.23	38.51	41.73	3.22	3,335.24
	20-Aug-03	3,374.23	38.77	42.04	3.27	3,334.97
	2-Oct-03	3,374.23	38.92	41.33	2.41	3,334.95
	7-Oct-03	3,374.23	38.85	42.28	3.43	3,334.87
	16-Oct-03	3,374.23	39.19	42.66	3.47	3,334.52
	22-Oct-03	3,374.23	38.25	42.68	4.43	3,335.32
	28-Oct-03	3,374.23	39.27	42.74	3.47	3,334.44
	6-Nov-03	3,374.23	38.39	42.75	4.36	3,335.19
	10-Nov-03	3,374.23	39.38	42.79	3.41	3,334.34
	18-Nov-03	3,374.23	39.14	42.48	3.34	3,334.59
	4-Dec-03	3,374.23	39.12	42.48	3.36	3,334.61
	17-Dec-03	3,374.23	39.12	42.49	3.37	3,334.60
	22-Dec-03	3,374.23	38.81	42.26	3.45	3,334.90
	2-Jan-04	3,374.22	39.02	42.30	3.28	3,334.71

TABLE 1

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

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-1 (cont.)	19-Jan-04	3,374.22	39.46	42.86	3.40	3,334.25
	27-Jan-04	3,374.22	39.51	42.90	3.39	3,334.20
	2-Feb-04	3,374.22	39.59	42.87	3.28	3,334.14
	17-Feb-04	3,374.22	39.05	42.22	3.17	3,334.69
	25-Feb-04	3,374.22	39.03	42.18	3.15	3,334.72
	1-Mar-04	3,374.22	39.04	42.13	3.09	3,334.72
	10-Mar-04	3,374.22	39.07	42.11	3.04	3,334.69
	15-Mar-04	3,374.22	39.20	42.51	3.31	3,334.52
	17-Mar-04	3,374.22	39.47	42.70	3.23	3,334.27
	22-Mar-04	3,374.22	39.51	42.61	3.10	3,334.25
	24-Mar-04	3,374.22	39.01	42.02	3.01	3,334.76
	29-Mar-04	3,374.22	39.52	42.68	3.16	3,334.23
	31-Mar-04	3,374.22	39.54	42.65	3.11	3,334.21
	12-Apr-04	3,374.22	34.05	34.05	0.00	3,340.17
	15-Apr-04	3,374.22	36.03	36.60	0.57	3,338.10
	19-Apr-04	3,374.22	35.31	35.50	0.19	3,338.88
	6-May-04	3,374.22	34.44	34.46	0.02	3,339.78
	23-Jun-04	3,374.22	35.24	35.86	0.62	3,338.89
	25-Jun-04	3,374.22	35.22	35.85	0.63	3,338.91
	30-Jun-04	3,374.22	35.19	35.87	0.68	3,338.93
	18-Aug-04	3,374.22	34.08	35.00	0.92	3,340.00
	10-Sep-04	3,374.22	33.60	34.59	0.99	3,340.47
	21-Sep-04	3,374.22	33.82	34.62	0.80	3,340.28
	5-Oct-04	3,374.22	31.24	31.77	0.53	3,342.90
	19-Oct-04	3,374.22	29.11	29.68	0.57	3,345.02
	2-Nov-04	3,374.22	29.02	29.19	0.17	3,345.17
	15-Nov-04	3,374.22	29.17	29.39	0.22	3,345.02
	6-Dec-04	3,374.22	ND	29.43	0.00	3,344.79
	21-Dec-04	3,374.22	ND	29.88	0.00	3,344.34
MW - 2	15-Aug-02	3,378.27	ND	41.67	0.00	3,336.60
	23-Aug-02					
	27-Aug-02					
	29-Aug-02					
	4-Sep-02					
	30-Sep-02	3,378.27	ND	42.46	0.00	3,335.81
	2-Oct-02					
	3-Oct-02					
	8-Oct-02					

TABLE 1

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

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-2 (cont.)	15-Oct-02					
	6-Nov-02	3,378.27	ND	41.88	0.00	3,336.39
	27-Dec-02					
	7-Jan-03					
	27-Jan-03					
	27-Feb-03	3,378.27	ND	41.31	0.00	3,336.96
	6-Mar-03					
	18-Mar-03	3,378.27	ND	41.37	0.00	3,336.90
	20-Mar-03					
	27-Mar-03					
	16-Apr-03					
	12-May-03	3,378.27	ND	41.60	0.00	3,336.67
	21-May-03					
	3-Jun-03					
	6-Jul-03					
	31-Jul-03					
	20-Aug-03	3,378.27	ND	42.53	0.00	3,335.74
	2-Oct-03					
	7-Oct-03					
	16-Oct-03					
	22-Oct-03					
	28-Oct-03					
	6-Nov-03					
	10-Nov-03	3,378.27	ND	42.02	0.00	3,336.25
	18-Nov-03					
	4-Dec-03					
	17-Dec-03					
	22-Dec-03					
	2-Jan-04					
	19-Jan-04					
	27-Jan-04					
	2-Feb-04					
	17-Feb-04	3,378.27	ND	43.19	0.00	3,335.08
	25-Feb-04					
	1-Mar-04					
	10-Mar-04					
	15-Mar-04					
	17-Mar-04					

TABLE 1

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

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-2 (cont.)	22-Mar-04					
	24-Mar-04					
	29-Mar-04					
	31-Mar-04					
	12-Apr-04					
	15-Apr-04					
	19-Apr-04					
	6-May-04	3,378.27	ND	39.43	0.00	3,338.84
	23-Jun-04					
	25-Jun-04					
	30-Jun-04					
	18-Aug-04	3,378.27	ND	37.87	0.00	3,340.40
	10-Sep-04	3,378.27	ND	37.63	0.00	3,340.64
	21-Sep-04	3,378.27	ND	37.67	0.00	3,340.60
	5-Oct-04	3,378.27	ND	36.00	0.00	3,342.27
	19-Oct-04	3,378.27	ND	33.67	0.00	3,344.60
	2-Nov-04	3,378.27	ND	33.95	0.00	3,344.32
	15-Nov-04	3,378.27	ND	33.10	0.00	3,345.17
	6-Dec-04	3,378.27	ND	33.13	0.00	3,345.14
	21-Dec-04	3,378.27	ND	33.04	0.00	3,345.23
MW - 3	15-Aug-02	3,367.36	ND	30.70	0.00	3,336.66
	23-Aug-02					
	27-Aug-02					
	29-Aug-02					
	4-Sep-02					
	30-Sep-02	3,367.36	ND	31.65	0.00	3,335.71
	2-Oct-02					
	3-Oct-02					
	8-Oct-02					
	15-Oct-02					
	6-Nov-02	3,367.36	ND	29.20	0.00	3,338.16
	27-Dec-02					
	7-Jan-03					
	27-Jan-03					
	27-Feb-03	3,367.36	ND	30.01	0.00	3,337.35
	6-Mar-03					
	18-Mar-03	3,367.36	ND	30.43	0.00	3,336.93
	20-Mar-03					

TABLE 1

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

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-3 (cont.)	27-Mar-03					
	16-Apr-03					
	12-May-03	3,367.36	ND	30.67	0.00	3,336.69
	21-May-03					
	3-Jun-03					
	31-Jul-03					
	6-Aug-03					
	20-Aug-03	3,367.36	ND	31.76	0.00	3,335.60
	2-Oct-03					
	7-Oct-03					
	16-Oct-03					
	22-Oct-03					
	28-Oct-03					
	6-Nov-03					
	10-Nov-03	3,367.36	ND	32.33	0.00	3,335.03
	25-Nov-03	3,367.36	ND	32.35	0.00	3,335.01
	4-Dec-03					
	17-Dec-03					
	22-Dec-03					
	2-Jan-04					
	19-Jan-04					
	27-Jan-04					
	2-Feb-04					
	17-Feb-04	3,367.36	ND	32.31	0.00	3,335.05
	25-Feb-04					
	1-Mar-04					
	10-Mar-04					
	15-Mar-04					
	17-Mar-04					
	22-Mar-04					
	24-Mar-04					
	29-Mar-04					
	31-Mar-04					
	12-Apr-04					
	15-Apr-04					
	19-Apr-04					
	6-May-04	3,367.36	ND	27.08	0.00	3,340.28
	23-Jun-04					

TABLE 1

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

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-3 (cont.)	25-Jun-04					
	30-Jun-04					
	18-Aug-04	3,367.36	ND	25.91	0.00	3,341.45
	10-Sep-04	3,367.36	ND	26.10	0.00	3,341.26
	21-Sep-04	3,367.36	ND	26.50	0.00	3,340.86
	5-Oct-04	3,367.36	ND	20.49	0.00	3,346.87
	19-Oct-04	3,367.36	ND	19.40	0.00	3,347.96
	2-Nov-04	3,367.36	ND	19.80	0.00	3,347.56
	15-Nov-04	3,367.36	ND	21.30	0.00	3,346.06
	6-Dec-04	3,367.36	ND	21.73	0.00	3,345.63
	21-Dec-04	3,367.36	ND	21.71	0.00	3,345.65
MW - 4	15-Aug-02	3,372.73	ND	36.22	0.00	3,336.51
	23-Aug-02					
	27-Aug-02					
	29-Aug-02					
	4-Sep-02					
	30-Sep-02	3,372.73	ND	37.13	0.00	3,335.60
	2-Oct-02					
	3-Oct-02					
	8-Oct-02					
	15-Oct-02					
	6-Nov-02	3,372.73	ND	35.72	0.00	3,337.01
	27-Dec-02					
	7-Jan-03					
	27-Jan-03					
	27-Feb-03	3,372.73	36.11	36.34	0.23	3,336.59
	6-Mar-03	3,372.73	35.97	37.06	1.09	3,336.60
	18-Mar-03	3,372.73	36.00	36.00	0.00	3,336.73
	20-Mar-03	3,372.73	36.05	36.05	0.00	3,336.68
	27-Mar-03	3,372.73	36.02	36.02	0.00	3,336.71
	16-Apr-03	3,372.73	36.18	36.18	0.00	3,336.55
	12-May-03	3,372.73	ND	36.24	0.00	3,336.49
	21-May-03	3,372.73	36.34	36.34	0.00	3,336.39
	3-Jun-03	3,372.73	ND	36.36	0.00	3,336.37
	31-Jul-03	3,372.73	ND	35.47	0.00	3,337.26
	6-Aug-03	3,372.73	ND	37.39	0.00	3,335.34
	20-Aug-03	3,372.73	37.66	37.66	0.00	3,335.07
	2-Oct-03	3,372.73	ND	37.71	0.00	3,335.02

TABLE 1

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

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-4 (cont.)	7-Oct-03	3,372.73	38.68	38.69	0.01	3,334.05
	16-Oct-03	3,372.73	38.00	38.00	0.00	3,334.73
	22-Oct-03	3,372.73	38.09	38.09	0.00	3,334.64
	28-Oct-03	3,372.73	38.09	38.09	0.00	3,334.64
	6-Nov-03	3,372.73	38.19	38.19	0.00	3,334.54
	10-Nov-03	3,372.73	38.21	38.21	0.00	3,334.52
	18-Nov-03	3,372.73	37.93	37.93	0.00	3,334.80
	4-Dec-03	3,372.73	37.93	37.93	0.00	3,334.80
	17-Dec-03	3,372.73	37.95	37.95	0.00	3,334.78
	22-Dec-03	3,372.73	38.62	38.63	0.01	3,334.11
	2-Jan-04	3,372.73	37.85	37.85	0.00	3,334.88
	19-Jan-04	3,372.73	38.31	38.31	0.00	3,334.42
	27-Jan-04	3,372.73	38.24	38.24	0.00	3,334.49
	2-Feb-04	3,372.73	38.34	38.34	0.00	3,334.39
	17-Feb-04	3,372.73	37.87	37.87	0.00	3,334.86
	25-Feb-04	3,372.73	37.86	37.86	0.00	3,334.87
	1-Mar-04	3,372.73	37.84	37.84	0.00	3,334.89
	10-Mar-04	3,372.73	37.87	37.87	0.00	3,334.86
	15-Mar-04	3,372.73	37.99	37.99	0.00	3,334.74
	17-Mar-04	3,372.73	38.27	38.27	0.00	3,334.46
	22-Mar-04	3,372.73	38.20	38.20	0.00	3,334.53
	24-Mar-04	3,372.73	37.81	37.81	0.00	3,334.92
	29-Mar-04	3,372.73	38.29	38.29	0.00	3,334.44
	31-Mar-04	3,372.73	38.30	38.30	0.00	3,334.43
	12-Apr-04	3,372.73	36.30	37.94	1.64	3,336.18
	15-Apr-04	3,372.73	ND	33.87	0.00	3,338.86
	19-Apr-04	3,372.73	33.29	33.29	0.00	3,339.44
	6-May-04	3,372.73	ND	33.66	0.00	3,339.07
	23-Jun-04	3,372.73	33.52	33.57	0.05	3,339.20
	25-Jun-04	3,372.73	33.49	33.56	0.07	3,339.23
	30-Jun-04	3,372.73	33.47	33.52	0.05	3,339.25
	18-Aug-04	3,372.73	ND	32.41	Sheen	3,340.32
	10-Sep-04	3,372.73	ND	31.95	Sheen	3,340.78
	21-Sep-04	3,372.73	ND	32.19	Sheen	3,340.54
	5-Oct-04	3,372.73	ND	29.12	Sheen	3,343.61
	19-Oct-04	3,372.73	ND	27.05	--	3,345.68
	2-Nov-04	3,372.73	ND	27.14	--	3,345.59
	15-Nov-04	3,372.73	ND	27.37	--	3,345.36

TABLE 1

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

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-4 (cont.)	6-Dec-04	3,372.73	ND	27.62	--	3,345.11
	21-Dec-04	3,372.73	ND	27.63	--	3,345.10
MW - 5	15-Aug-02	3,370.92	34.52	34.85	0.33	3,336.35
	23-Aug-02	3,370.92	34.77	35.20	0.43	3,336.09
	27-Aug-02	3,370.92	34.84	35.19	0.35	3,336.03
	29-Aug-02	3,370.92	34.90	35.20	0.30	3,335.98
	4-Sep-02	3,370.92	35.03	35.05	0.02	3,335.89
	30-Sep-02	3,370.92	35.48	35.88	0.40	3,335.38
	2-Oct-02	3,370.92	35.39	35.85	0.46	3,335.46
	3-Oct-02	3,370.92	34.51	34.86	0.35	3,336.36
	8-Oct-02	3,370.92	35.57	36.02	0.45	3,335.28
	15-Oct-02	3,370.92	35.65	35.97	0.32	3,335.22
	6-Nov-02	3,370.92	33.72	33.80	0.08	3,337.19
	27-Dec-02	3,370.92	33.79	33.92	0.13	3,337.11
	7-Jan-03	3,370.92	34.19	34.19	0.00	3,336.73
	27-Jan-03	3,370.92	34.21	34.21	0.00	3,336.71
	27-Feb-03	3,370.92	34.53	34.66	0.13	3,336.37
	6-Mar-03	3,370.92	34.56	34.56	0.00	3,336.36
	18-Mar-03	3,370.92	34.63	34.63	0.00	3,336.29
	20-Mar-03	3,370.92	36.34	34.64	0.00	3,336.28
	27-Mar-03	3,370.92	34.48	34.48	0.00	3,336.44
	16-Apr-03	3,370.92	34.81	34.81	0.00	3,336.11
	12-May-03	3,370.92	34.66	34.66	0.00	3,336.26
	21-May-03	3,370.92	34.94	34.94	0.00	3,335.98
	3-Jun-03	3,370.92	34.92	34.92	0.00	3,336.00
	31-Jul-03	3,370.92	ND	35.47	0.00	3,335.45
	6-Aug-03	3,370.92	35.82	35.82	0.00	3,335.10
	20-Aug-03	3,370.92	36.03	36.03	0.00	3,334.89
	2-Oct-03	3,370.92	36.10	36.16	0.06	3,334.81
	7-Oct-03	3,370.92	36.28	36.29	0.01	3,334.64
	16-Oct-03	3,370.92	36.54	36.54	0.00	3,334.38
	22-Oct-03	3,370.92	36.59	36.59	0.00	3,334.33
	28-Oct-03	3,370.92	36.63	36.63	0.00	3,334.29
	6-Nov-03	3,370.92	36.75	36.75	0.00	3,334.17
	10-Nov-03	3,370.92	36.79	36.79	0.00	3,334.13
	18-Nov-03	3,370.92	36.48	36.48	0.00	3,334.44
	4-Dec-03	3,370.92	36.76	36.76	0.00	3,334.16
	17-Dec-03	3,370.92	36.49	36.49	0.00	3,334.43

TABLE 1

Relative Groundwater Elevations and
Phase Separated Hydrocarbon Thicknesses

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-5 (cont.)	22-Dec-03	3,370.92	36.25	36.26	0.01	3,334.67
	2-Jan-04	3,370.92	36.82	36.84	0.02	3,334.10
	19-Jan-04	3,370.92	37.22	37.27	0.05	3,333.69
	27-Jan-04	3,370.92	37.25	37.28	0.03	3,333.67
	2-Feb-04	3,370.92	37.21	37.23	0.02	3,333.71
	17-Feb-04	3,370.92	36.35	36.35	0.00	3,334.57
	25-Feb-04	3,370.92	36.36	36.36	0.00	3,334.56
	1-Mar-04	3,370.92	36.38	36.38	0.00	3,334.54
	10-Mar-04	3,370.92	36.39	36.39	0.00	3,334.53
	15-Mar-04	3,370.92	36.59	36.60	0.01	3,334.33
	17-Mar-04	3,370.92	36.83	36.83	0.00	3,334.09
	22-Mar-04	3,370.92	37.50	37.50	0.00	3,333.42
	24-Mar-04	3,370.92	36.42	36.43	0.01	3,334.50
	29-Mar-04	3,370.92	36.97	36.97	0.00	3,333.95
	31-Mar-04	3,370.92	37.00	37.00	0.00	3,333.92
	12-Apr-04	3,370.92	31.34	31.34	0.00	3,339.58
	15-Apr-04	3,370.92	ND	31.42	0.00	3,339.50
	19-Apr-04	3,370.92	31.09	31.09	Sheen	3,339.83
	6-May-04	3,370.92	ND	31.74	0.00	3,339.18
	23-Jun-04					
	25-Jun-04					
	30-Jun-04					
	18-Aug-04	3,370.92	ND	29.70	0.00	3,341.22
	10-Sep-04	3,370.92	ND	30.15	0.00	3,340.77
	21-Sep-04	3,370.92	ND	30.46	0.00	3,340.46
	5-Oct-04	3,370.92	ND	26.47	0.00	3,344.45
	19-Oct-04	3,370.92	ND	24.59	0.00	3,346.33
	2-Nov-04	3,370.92	ND	24.95	0.00	3,345.97
	15-Nov-04	3,370.92	ND	25.48	0.00	3,345.44
	6-Dec-04	3,370.92	ND	25.81	0.00	3,345.11
	21-Dec-04	3,370.92	ND	25.87	0.00	3,345.05
MW - 6	15-Aug-02	3,377.02	ND	40.82	0.00	3,336.20
	23-Aug-02					
	27-Aug-02					
	29-Aug-02					
	4-Sep-02					
	30-Sep-02	3,377.02	ND	41.69	0.00	3,335.33
	2-Oct-02					

TABLE 1

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

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-6 (cont.)	3-Oct-02					
	8-Oct-02					
	15-Oct-02					
	6-Nov-02	3,377.02	ND	40.45	0.00	3,336.57
	27-Dec-02					
	7-Jan-03					
	27-Jan-03					
	27-Feb-03	3,377.02	ND	40.48	0.00	3,336.54
	6-Jan-03					
	18-Mar-03	3,377.02	ND	40.48	0.00	3,336.54
	20-Mar-03					
	27-Mar-03					
	16-Apr-03					
	12-May-03	3,377.02	ND	40.75	0.00	3,336.27
	21-May-03					
	3-Jun-03					
	31-Jul-03					
	6-Aug-03					
	20-Aug-03	3,377.02	ND	41.78	0.00	3,335.24
	2-Oct-03					
	7-Oct-03					
	16-Oct-03					
	22-Oct-03					
	28-Oct-03					
	6-Nov-03					
	10-Nov-03	3,377.02	ND	42.29	0.00	3,334.73
	18-Nov-03					
	4-Dec-03					
	17-Dec-03					
	22-Dec-03					
	2-Jan-04					
	19-Jan-04					
	27-Jan-04					
	2-Feb-04					
	17-Feb-04	3,377.02	ND	42.35	0.00	3,334.67
	25-Feb-04					
	1-Mar-04					
	10-Mar-04					

TABLE 1

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

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-6 (cont.)	15-Mar-04					
	17-Mar-04					
	22-Mar-04					
	24-Mar-04					
	29-Mar-04					
	31-Mar-04					
	12-Apr-04					
	15-Apr-04					
	19-Apr-04					
	6-May-04	3,377.02	ND	38.00	0.00	3,339.02
	23-Jun-04					
	25-Jun-04					
	30-Jun-04					
	18-Aug-04	3,377.02	ND	37.12	0.00	3,339.90
	10-Sep-04	3,377.02	ND	36.59	0.00	3,340.43
	21-Sep-04	3,377.02	ND	36.77	0.00	3,340.25
	5-Oct-04	3,377.02	ND	34.50	0.00	3,342.52
	19-Oct-04	3,377.02	ND	32.34	0.00	3,344.68
	2-Nov-04	3,377.02	ND	32.09	0.00	3,344.93
	15-Nov-04	3,377.02	ND	32.16	0.00	3,344.86
	6-Dec-04	3,377.02	ND	32.32	0.00	3,344.70
	21-Dec-04	3,377.02	ND	32.29	0.00	3,344.73
MW - 7	15-Aug-02	3,369.47	ND	32.73	0.00	3,336.74
	23-Aug-02					
	27-Aug-02					
	29-Aug-02					
	4-Sep-02					
	30-Sep-02	3,369.47	ND	33.65	0.00	3,335.82
	2-Oct-02					
	3-Oct-02					
	8-Oct-02					
	15-Oct-02					
	6-Nov-02	3,369.47	ND	31.70	0.00	3,337.77
	27-Dec-02					
	7-Jan-03					
	27-Jan-03					
	27-Feb-03	3,369.47	ND	32.45	0.00	3,337.02
	6-Mar-03					

TABLE 1

Relative Groundwater Elevations and
Phase Separated Hydrocarbon Thicknesses

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-7 (cont.)	18-Mar-03	3,369.47	ND	32.48	0.00	3,336.99
	20-Mar-03					
	27-Mar-03					
	16-Apr-03					
	12-May-03	3,369.47	ND	32.71	0.00	3,336.76
	21-May-03					
	3-Jun-03					
	31-Jul-03					
	6-Aug-03					
	20-Aug-03	3,369.47	ND	33.82	0.00	3,335.65
	2-Oct-03					
	4-Oct-03					
	16-Oct-03					
	22-Oct-03					
	28-Oct-03					
	6-Nov-03					
	10-Nov-03	3,369.47	ND	34.35	0.00	3,335.12
	18-Nov-03					
	4-Dec-03					
	17-Dec-03					
	22-Dec-03					
	2-Jan-04					
	19-Jan-04					
	27-Jan-04					
	2-Feb-04					
	17-Feb-04	3,369.47	ND	34.33	0.00	3,335.14
	25-Feb-04					
	1-Mar-04					
	10-Mar-04					
	15-Mar-04					
	17-Mar-04					
	22-Mar-04					
	24-Mar-04					
	29-Mar-04					
	31-Mar-04					
	12-Apr-04					
	15-Apr-04					
	19-Apr-04					

TABLE 1

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

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-7 (cont.)	6-May-04	3,369.47	ND	29.40	0.00	3,340.07
	23-Jun-04					
	25-Jun-04					
	30-Jun-04					
	18-Aug-04	3,369.47	ND	28.47	0.00	3,341.00
	10-Sep-04	3,369.47	ND	28.27	0.00	3,341.20
	21-Sep-04	3,369.47	ND	28.59	0.00	3,340.88
	5-Oct-04	3,369.47	ND	23.93	0.00	3,345.54
	19-Oct-04	3,369.47	ND	22.28	0.00	3,347.19
	2-Nov-04	3,369.47	ND	22.32	0.00	3,347.15
	15-Nov-04	3,369.47	ND	23.54	0.00	3,345.93
	6-Dec-04	3,369.47	ND	23.91	0.00	3,345.56
	21-Dec-04	3,369.47	ND	24.03	0.00	3,345.44
MW - 8	15-Aug-02	3,373.77	ND	37.15	0.00	3,336.62
	23-Aug-02					
	27-Aug-02					
	29-Aug-02					
	4-Sep-02					
	30-Sep-02	3,373.77	ND	37.95	0.00	3,335.82
	2-Oct-02					
	3-Oct-02					
	8-Oct-02					
	15-Oct-02					
	6-Nov-02	3,373.77	ND	36.70	0.00	3,337.07
	27-Dec-02					
	7-Jan-03					
	27-Jan-03					
	27-Feb-03	3,373.77	ND	36.83	0.00	3,336.94
	6-Mar-03					
	18-Mar-03	3,373.77	ND	36.85	0.00	3,336.92
	20-Mar-03					
	27-Mar-03					
	16-Apr-03					
	12-May-03	3,373.77	ND	37.09	0.00	3,336.68
	21-May-03					
	3-Jun-03					
	31-Jul-03					
	6-Aug-03					

TABLE 1

Relative Groundwater Elevations and
Phase Separated Hydrocarbon Thicknesses

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-8 (cont.)	20-Aug-03	3,373.77	ND	38.11	0.00	3,335.66
	2-Oct-03					
	7-Oct-03					
	16-Oct-03					
	22-Oct-03					
	28-Oct-03					
	6-Nov-03					
	10-Nov-03	3,373.77	ND	38.67	0.00	3,335.10
	18-Nov-03					
	4-Dec-03					
	17-Dec-03					
	22-Dec-03					
	2-Jan-04					
	19-Jan-04					
	27-Jan-04					
	2-Feb-04					
	17-Feb-04	3,373.77	ND	38.71	0.00	3,335.06
	25-Feb-04					
	1-Mar-04					
	10-Mar-04					
	15-Mar-04					
	17-Mar-04					
	22-Mar-04					
	24-Mar-04					
	29-Mar-04					
	31-Mar-04					
	12-Apr-04					
	15-Apr-04					
	19-Apr-04					
	6-May-04	3,373.77	ND	34.26	0.00	3,339.51
	23-Jun-04					
	25-Jun-04					
	30-Jun-04					
	18-Aug-04	3,373.77	ND	33.38	0.00	3,340.39
	10-Sep-04	3,373.77	ND	32.86	0.00	3,340.91
	21-Sep-04	3,373.77	ND	33.10	0.00	3,340.67
	5-Oct-04	3,373.77	ND	30.25	0.00	3,343.52
	19-Oct-04	3,373.77	ND	28.05	0.00	3,345.72

TABLE 1

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

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-8 (cont.)	2-Nov-04	3,373.77	ND	28.15	0.00	3,345.62
	15-Nov-04	3,373.77	ND	28.32	0.00	3,345.45
	6-Dec-04	3,373.77	ND	28.51	0.00	3,345.26
	21-Dec-04	3,373.77	ND	28.54	0.00	3,345.23
MW - 9	15-Aug-02	3,375.92	ND	39.60	0.00	3,336.32
	23-Aug-02					
	27-Aug-02					
	29-Aug-02					
	4-Sep-02					
	30-Sep-02	3,375.92	ND	40.46	0.00	3,335.46
	2-Oct-02					
	3-Oct-02					
	8-Oct-02					
	15-Oct-02					
	6-Nov-02	3,375.92	ND	39.30	0.00	3,336.62
	27-Dec-02					
	7-Jan-03					
	27-Jan-03					
	27-Feb-03	3,375.92	ND	39.18	0.00	3,336.74
	6-Mar-03					
	18-Mar-03	3,375.92	ND	39.30	0.00	3,336.62
	20-Mar-03					
	27-Mar-03					
	16-Apr-03					
	12-May-03	3,375.92	ND	39.53	0.00	3,336.39
	21-May-03					
	3-Jun-03					
	31-Jul-03					
	6-Aug-03					
	20-Aug-03					
	2-Oct-03	3,375.92	ND	40.50	0.00	3,335.42
	7-Oct-03					
	16-Oct-03					
	22-Oct-03					
	28-Oct-03					
	6-Nov-03					
	10-Nov-03	3,375.92	ND	41.00	0.00	3,334.92
	18-Nov-03					

TABLE 1

Relative Groundwater Elevations and
Phase Separated Hydrocarbon Thicknesses

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-9 (cont.)	4-Dec-03					
	17-Dec-03					
	22-Dec-03					
	2-Jan-04					
	19-Jan-04					
	27-Jan-04					
	2-Feb-04					
	17-Feb-04	3,375.92	ND	41.12	0.00	3,334.80
	25-Feb-04					
	1-Mar-04					
	10-Mar-04					
	15-Mar-04					
	17-Mar-04					
	22-Mar-04					
	24-Mar-04					
	29-Mar-04					
	31-Mar-04					
	12-Apr-04					
	15-Apr-04					
	19-Apr-04					
	6-May-04	3,375.92	ND	36.71	0.00	3,339.21
	23-Jun-04					
	25-Jun-04					
	30-Jun-04					
	18-Aug-04	3,375.92	ND	35.89	0.00	3,340.03
	10-Sep-04	3,375.92	ND	35.33	0.00	3,340.59
	21-Sep-04	3,375.92	ND	35.55	0.00	3,340.37
	5-Oct-04	3,375.92	ND	33.03	0.00	3,342.89
	19-Oct-04	3,375.92	ND	30.96	0.00	3,344.96
	2-Nov-04	3,375.92	ND	31.78	0.00	3,344.14
	15-Nov-04	3,375.92	ND	30.98	0.00	3,344.94
	6-Dec-04	3,375.92	ND	31.12	0.00	3,344.80
	21-Dec-04	3,375.92	ND	31.08	0.00	3,344.84
MW - 10	15-Aug-02	3,370.17	ND	33.66	0.00	3,336.51
	23-Aug-02					
	27-Aug-02					
	29-Aug-02					
	4-Sep-02					

TABLE 1

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

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-10 (cont.)	30-Sep-02	3,370.17	ND	34.59	0.00	3,335.58
	2-Oct-02					
	3-Oct-02					
	8-Oct-02					
	15-Oct-02					
	6-Nov-02	3,370.17	ND	32.40	0.00	3,337.77
	27-Dec-02					
	7-Jan-03					
	27-Jan-03					
	27-Feb-03	3,370.17	ND	33.35	0.00	3,336.82
	6-Mar-03					
	18-Mar-03	3,370.17	ND	33.37	0.00	3,336.80
	20-Mar-03					
	27-Mar-03					
	16-Apr-03					
	12-May-03	3,370.17	ND	33.65	0.00	3,336.52
	21-May-03					
	3-Jun-03					
	31-Jul-03					
	6-Aug-03					
	20-Aug-03	3,370.17	ND	34.70	0.00	3,335.47
	2-Oct-03					
	7-Oct-03					
	16-Oct-03					
	22-Oct-03					
	28-Oct-03					
	6-Nov-03					
	10-Nov-03	3,370.17	ND	35.27	0.00	3,334.90
	18-Nov-03					
	4-Dec-03					
	17-Dec-03					
	22-Dec-03					
	2-Jan-04					
	19-Jan-04					
	27-Jan-04					
	2-Feb-04					
	17-Feb-04	3,370.17	ND	35.27	0.00	3,334.90
	25-Feb-04					

TABLE 1

Relative Groundwater Elevations and
Phase Separated Hydrocarbon Thicknesses

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-10 (cont.)	1-Mar-04					
	10-Mar-04					
	15-Mar-04					
	17-Mar-04					
	22-Mar-04					
	24-Mar-04					
	29-Mar-04					
	31-Mar-04					
	12-Apr-04					
	15-Apr-04					
	19-Apr-04					
	6-May-04	3,370.17	ND	30.04	0.00	3,340.13
	23-Jun-04					
	25-Jun-04					
	30-Jun-04					
	18-Aug-04	3,370.17	ND	29.13	0.00	3,341.04
	10-Sep-04	3,370.17	ND	29.08	0.00	3,341.09
	21-Sep-04	3,370.17	ND	29.48	0.00	3,340.69
	5-Oct-04	3,370.17	ND	24.20	0.00	3,345.97
	19-Oct-04	3,370.17	ND	22.80	0.00	3,347.37
	2-Nov-04	3,370.17	ND	22.98	0.00	3,347.19
	15-Nov-04	3,370.17	ND	24.31	0.00	3,345.86
	6-Dec-04	3,370.17	ND	24.74	0.00	3,345.43
	21-Dec-04	3,370.17	ND	24.85	0.00	3,345.32
MW-11	15-Aug-02					
	23-Aug-02					
	27-Aug-02					
	29-Aug-02					
	4-Sep-02					
	30-Sep-02					
	2-Oct-02					
	3-Oct-02					
	8-Oct-02					
	15-Oct-02	3,373.96	ND	38.87	0.00	3,335.09
	6-Nov-02	3,373.96	ND	37.42	0.00	3,336.54
	27-Dec-02					
	7-Jan-03					
	27-Jan-03					

TABLE 1

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

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-11 (cont.)	27-Feb-03	3,373.96	ND	37.45	0.00	3,336.51
	6-Mar-03					
	18-Mar-03	3,373.96	ND	37.47	0.00	3,336.49
	20-Mar-03					
	27-Mar-03					
	16-Apr-03					
	12-May-03	3,373.96	ND	37.72	0.00	3,336.24
	21-May-03					
	3-Jun-03					
	31-Jul-03					
	6-Aug-03					
	20-Aug-03	3,373.96	ND	38.70	0.00	3,335.26
	2-Oct-03					
	7-Oct-03					
	16-Oct-03					
	22-Oct-03					
	28-Oct-03					
	6-Nov-03					
	10-Nov-03	3,373.96	ND	39.21	0.00	3,334.75
	18-Nov-03					
	4-Dec-03					
	17-Dec-03					
	22-Dec-03					
	2-Jan-04					
	19-Jan-04					
	27-Jan-04					
	2-Feb-04					
	17-Feb-04	3,373.96	ND	39.31	0.00	3,334.65
	25-Feb-04					
	1-Mar-04					
	10-Mar-04					
	15-Mar-04					
	17-Mar-04					
	22-Mar-04					
	24-Mar-04					
	29-Mar-04					
	31-Mar-04					
	12-Apr-04					

TABLE 1

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

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-11 (cont.)	15-Apr-04					
	19-Apr-04					
	6-May-04	3,373.96	ND	34.82	0.00	3,339.14
	23-Jun-04					
	25-Jun-04					
	30-Jun-04					
	18-Aug-04	3,373.96	ND	34.05	0.00	3,339.91
	10-Sep-04	3,373.96	ND	33.56	0.00	3,340.40
	21-Sep-04	3,373.96	ND	33.72	0.00	3,340.24
	5-Oct-04	3,373.96	ND	31.25	0.00	3,342.71
	19-Oct-04	3,373.96	ND	29.25	0.00	3,344.71
	2-Nov-04	3,373.96	ND	29.02	0.00	3,344.94
	15-Nov-04	3,373.96	ND	29.21	0.00	3,344.75
	6-Dec-04	3,373.96	ND	29.31	0.00	3,344.65
	21-Dec-04	3,373.96	ND	29.25	0.00	3,344.71
MW- 12	15-Aug-02					
	23-Aug-02					
	27-Aug-02					
	29-Aug-02					
	4-Sep-02					
	30-Sep-02					
	2-Oct-02					
	3-Oct-02					
	8-Oct-02					
	22-Oct-02	3,372.41	ND	33.77	0.00	3,338.64
	6-Nov-02	3,372.41	ND	31.84	0.00	3,340.57
	27-Dec-02					
	7-Jan-03					
	27-Jan-03					
	27-Feb-03	3,372.41	ND	35.86	0.00	3,336.55
	6-Mar-03					
	18-Mar-03	3,372.41	ND	35.89	0.00	3,336.52
	20-Mar-03					
	27-Mar-03					
	16-Apr-03					
	12-May-03	3,372.41	ND	36.09	0.00	3,336.32
	21-May-03					
	3-Jun-03					

TABLE 1

Relative Groundwater Elevations and
Phase Separated Hydrocarbon Thicknesses

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-12 (cont.)	31-Jul-03					
	6-Aug-03					
	20-Aug-03	3,372.41	ND	37.17	0.00	3,335.24
	2-Oct-03					
	7-Oct-03					
	16-Oct-03					
	22-Oct-03					
	28-Oct-03					
	6-Nov-03					
	10-Nov-03	3,372.41	ND	37.72	0.00	3,334.69
	18-Nov-03					
	4-Dec-03					
	17-Dec-03					
	22-Dec-03					
	2-Jan-04					
	19-Jan-04					
	27-Jan-04					
	2-Feb-04					
	17-Feb-04	3,372.41	ND	37.73	0.00	3,334.68
	25-Feb-04					
	1-Mar-04					
	10-Mar-04					
	15-Mar-04					
	17-Mar-04					
	22-Mar-04					
	24-Mar-04					
	29-Mar-04					
	31-Mar-04					
	12-Apr-04					
	15-Apr-04					
	19-Apr-04					
	6-May-04	3,372.41	ND	33.08	0.00	3,339.33
	23-Jun-04					
	25-Jun-04					
	30-Jun-04					
	18-Aug-04	3,372.41	ND	32.32	0.00	3,340.09
	10-Sep-04	3,372.41	ND	32.09	0.00	3,340.32
	21-Sep-04	3,372.41	ND	32.24	0.00	3,340.17

TABLE 1

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

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-12 (cont.)	5-Oct-04	3,372.41	ND	29.21	0.00	3,343.20
	19-Oct-04	3,372.41	ND	27.05	0.00	3,345.36
	2-Nov-04	3,372.41	ND	27.09	0.00	3,345.32
	15-Nov-04	3,372.41	ND	27.23	0.00	3,345.18
	6-Dec-04	3,372.41	ND	27.67	0.00	3,344.74
	21-Dec-04	3,372.41	ND	27.64	0.00	3,344.77
MW- 13	15-Aug-02					
	23-Aug-02					
	27-Aug-02					
	29-Aug-02					
	4-Sep-02					
	30-Sep-02					
	2-Oct-02					
	3-Oct-02					
	8-Oct-02					
	22-Oct-02	3,368.91	ND	31.30	0.00	3,337.61
	6-Nov-02	3,368.91	ND	31.60	0.00	3,337.31
	27-Dec-02					
	7-Jan-03					
	27-Jan-03					
	27-Feb-03	3,368.91	ND	32.31	0.00	3,336.60
	6-Mar-03					
	18-Mar-03	3,368.91	ND	32.35	0.00	3,336.56
	20-Mar-03					
	27-Mar-03					
	16-Apr-03					
	12-May-03	3,368.91	ND	32.60	0.00	3,336.31
	21-May-03					
	3-Jun-03					
	31-Jul-03					
	6-Aug-03					
	20-Aug-03	3,368.91	ND	33.62	0.00	3,335.29
	2-Oct-03					
	7-Oct-03					
	16-Oct-03					
	22-Oct-03					
	28-Oct-03					
	6-Nov-03					

TABLE 1

Relative Groundwater Elevations and
Phase Separated Hydrocarbon Thicknesses

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-13 (cont.)	10-Nov-03	3,368.91	ND	34.20	0.00	3,334.71
	18-Nov-03					
	4-Dec-03					
	17-Dec-03					
	22-Dec-03					
	2-Jan-04					
	19-Jan-04					
	27-Jan-04					
	2-Feb-04					
	17-Feb-04	3,368.91	ND	34.18	0.00	3,334.73
	25-Feb-04					
	1-Mar-04					
	10-Mar-04					
	15-Mar-04					
	17-Mar-04					
	22-Mar-04					
	24-Mar-04					
	29-Mar-04					
	31-Mar-04					
	12-Apr-04					
	15-Apr-04					
	19-Apr-04					
	6-May-04	3,368.91	ND	29.29	0.00	3,339.62
	23-Jun-04					
	25-Jun-04					
	30-Jun-04					
	18-Aug-04	3,368.91	ND	28.51	0.00	3,340.40
	10-Sep-04	3,368.91	ND	28.23	0.00	3,340.68
	21-Sep-04	3,368.91	ND	28.54	0.00	3,340.37
	5-Oct-04	3,368.91	ND	24.88	0.00	3,344.03
	19-Oct-04	3,368.91	ND	22.96	0.00	3,345.95
	2-Nov-04	3,368.91	ND	23.26	0.00	3,345.65
	15-Nov-04	3,368.91	ND	23.61	0.00	3,345.30
	6-Dec-04	3,368.91	ND	24.05	0.00	3,344.86
	21-Dec-04	3,368.91	ND	24.03	0.00	3,344.88
MW- 14	15-Aug-02					
	23-Aug-02					
	27-Aug-02					

TABLE 1

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

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-14 (cont.)	29-Aug-02					
	4-Sep-02					
	30-Sep-02					
	2-Oct-02					
	3-Oct-02					
	8-Oct-02					
	22-Oct-02	3,371.54	ND	36.56	0.00	3,334.98
	6-Nov-02	3,371.54	ND	34.68	0.00	3,336.86
	27-Dec-02					
	7-Jan-03					
	27-Jan-03					
	27-Feb-03	3,371.54	ND	35.09	0.00	3,336.45
	6-Mar-03					
	18-Mar-03	3,371.54	ND	35.14	0.00	3,336.40
	20-Mar-03					
	27-Mar-03					
	16-Apr-03					
	12-May-03	3,371.54	ND	35.32	0.00	3,336.22
	21-May-03					
	3-Jun-03					
	31-Jul-03					
	6-Aug-03					
	20-Aug-03	3,371.54	ND	36.42	0.00	3,335.12
	2-Oct-03					
	7-Oct-03					
	16-Oct-03					
	22-Oct-03					
	28-Oct-03					
	6-Nov-03					
	10-Nov-03	3,371.54	ND	36.97	0.00	3,334.57
	18-Nov-03					
	4-Dec-03					
	17-Dec-03					
	22-Dec-03					
	2-Jan-04					
	19-Jan-04					
	27-Jan-04					
	2-Feb-04					

TABLE 1

Relative Groundwater Elevations and
Phase Separated Hydrocarbon Thicknesses

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-14 (cont.)	17-Feb-04	3,371.54	ND	37.00	0.00	3,334.54
	25-Feb-04					
	1-Mar-04					
	10-Mar-04					
	15-Mar-04					
	17-Mar-04					
	22-Mar-04					
	24-Mar-04					
	29-Mar-04					
	31-Mar-04					
	12-Apr-04					
	15-Apr-04					
	19-Apr-04					
	6-May-04	3,371.54	ND	32.17	0.00	3,339.37
	23-Jun-04					
	25-Jun-04					
	30-Jun-04					
	18-Aug-04	3,371.54	ND	31.42	0.00	3,340.12
	10-Sep-04	3,371.54	ND	31.05	0.00	3,340.49
	21-Sep-04	3,371.54	ND	31.31	0.00	3,340.23
	5-Oct-04	3,371.54	ND	28.16	0.00	3,343.38
	19-Oct-04	3,371.54	ND	26.10	0.00	3,345.44
	2-Nov-04	3,371.54	ND	26.20	0.00	3,345.34
	15-Nov-04	3,371.54	ND	26.46	0.00	3,345.08
	6-Dec-04	3,371.54	ND	26.82	0.00	3,344.72
	21-Dec-04	3,371.54	ND	26.79	0.00	3,344.75
MW-15	15-Aug-02					
	23-Aug-02					
	27-Aug-02					
	29-Aug-02					
	4-Sep-02					
	30-Sep-02					
	2-Oct-02					
	3-Oct-02					
	8-Oct-02					
	22-Oct-02	3,377.64	ND	42.74	0.00	3,334.90
	6-Nov-02	3,377.64	ND	41.32	0.00	3,336.32
	27-Dec-02					

TABLE 1

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

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-15 (cont.)	7-Jan-03					
	24-Jan-03					
	27-Feb-03	3,377.64	ND	41.29	0.00	3,336.35
	6-Mar-03					
	18-Mar-03	3,377.64	ND	41.26	0.00	3,336.38
	20-Mar-03					
	27-Mar-03					
	16-Apr-03					
	12-May-03	3,377.64	ND	41.52	0.00	3,336.12
	21-May-03					
	3-Jun-03					
	31-Jul-03					
	6-Aug-03					
	20-Aug-03	3,377.64	ND	42.54	0.00	3,335.10
	2-Oct-03					
	7-Oct-03					
	16-Oct-03					
	22-Oct-03					
	28-Oct-03					
	6-Nov-03					
	10-Nov-03	3,377.64	ND	43.12	0.00	3,334.52
	18-Nov-03					
	4-Dec-03					
	17-Dec-03					
	22-Dec-03					
	2-Jan-04					
	19-Jan-04					
	27-Jan-04					
	2-Feb-04					
	17-Feb-04					
	25-Feb-04					
	1-Mar-04					
	10-Mar-04	3,377.64	ND	43.18	0.00	3,334.46
	15-Mar-04					
	17-Mar-04					
	22-Mar-04					
	24-Mar-04					
	29-Mar-04					

TABLE 1

Relative Groundwater Elevations and
Phase Separated Hydrocarbon Thicknesses

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-15 (cont.)	31-Mar-04					
	12-Apr-04					
	15-Apr-04					
	19-Apr-04					
	6-May-04	3,377.64	ND	38.79	0.00	3,338.85
	23-Jun-04					
	25-Jun-04					
	30-Jun-04					
	18-Aug-04	3,377.64	ND	37.93	0.00	3,339.71
	10-Sep-04	3,377.64	ND	37.45	0.00	3,340.19
	21-Sep-04	3,377.64	ND	37.67	0.00	3,339.97
	5-Oct-04	3,377.64	ND	35.37	0.00	3,342.27
	19-Oct-04	3,377.64	ND	33.50	0.00	3,344.14
	2-Nov-04	3,377.64	ND	33.10	0.00	3,344.54
	15-Nov-04	3,377.64	ND	33.12	0.00	3,344.52
	6-Dec-04	3,377.64	ND	33.26	0.00	3,344.38
	21-Dec-04	3,377.64	ND	33.21	0.00	3,344.43
TMW-1	15-Aug-02	3,357.33	20.18	25.22	5.04	3,336.39
	23-Aug-02	3,357.33	20.53	25.04	4.51	3,336.12
	27-Aug-02	3,357.33	20.61	24.97	4.36	3,336.07
	29-Aug-02	3,357.33	20.68	24.79	4.11	3,336.03
	4-Sep-02	3,357.33	20.86	24.87	4.01	3,335.87
	30-Sep-02					
	2-Oct-02	3,357.33	21.28	24.95	3.67	3,335.50
	3-Oct-02	3,357.33	20.18	25.24	5.06	3,336.39
	8-Oct-02	3,357.33	21.49	25.02	3.53	3,335.31
	15-Oct-02	3,357.33	20.24	25.23	4.99	3,336.34
	6-Nov-02					
	27-Dec-02	3,357.33	19.57	23.72	4.15	3,337.14
	7-Jan-03	3,357.33	19.71	23.79	4.08	3,337.01
	27-Jan-03	3,357.33	19.98	23.42	3.44	3,336.83
	27-Feb-03	3,357.33	20.07	24.16	4.09	3,336.65
	6-Mar-03	3,357.33	20.12	24.17	4.05	3,336.60
	18-Mar-03	3,357.33	20.09	24.24	4.15	3,336.62
	20-Mar-03	3,357.33	20.21	24.09	3.88	3,336.54
	27-Mar-03	3,357.33	20.15	24.18	4.03	3,336.58
	16-Apr-03	3,357.33	20.33	24.24	3.91	3,336.41
	12-May-03	3,357.33	20.59	23.13	2.54	3,336.36

TABLE 1

Relative Groundwater Elevations and
Phase Separated Hydrocarbon Thicknesses

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
TMW-1 (cont.)	21-May-03	3,357.33	20.48	24.27	3.79	3,336.28
	3-Jun-03	3,357.33	20.52	24.39	3.87	3,336.23
	31-Jul-03	3,357.33	21.22	24.84	3.62	3,335.57
	6-Aug-03	3,357.33	21.51	25.10	3.59	3,335.28
	20-Aug-03	3,357.33	21.78	25.28	3.50	3,335.03
	2-Oct-03	3,357.33	22.00	25.35	3.35	3,334.83
	7-Oct-03	3,357.33	21.91	25.23	3.32	3,334.92
	16-Oct-03	3,357.33	22.29	25.64	3.35	3,334.54
	22-Oct-03	3,357.33	22.31	25.66	3.35	3,334.52
	28-Oct-03	3,357.33	22.35	25.72	3.37	3,334.47
	6-Nov-03	3,357.33	22.46	25.77	3.31	3,334.37
	10-Nov-03	3,357.33	22.46	25.81	3.35	3,334.37
	18-Nov-03	3,357.33	22.21	25.51	3.30	3,334.63
	4-Dec-03	3,357.33	22.22	25.51	3.29	3,334.62
	17-Dec-03	3,357.33	22.22	25.50	3.28	3,334.62
	22-Dec-03	3,357.33	21.84	25.19	3.35	3,334.99
	2-Jan-04	3,357.32	22.07	25.31	3.24	3,334.76
	19-Jan-04	3,357.32	22.55	25.81	3.29	3,334.31
	27-Jan-04	3,357.32	22.59	25.96	3.37	3,334.22
	2-Feb-04	3,357.32	22.20	26.04	3.34	3,334.12
	17-Feb-04	3,357.32	22.10	24.33	2.23	3,334.89
	25-Feb-04	3,357.32	22.11	24.30	2.19	3,334.88
	1-Mar-04	3,357.32	22.12	24.27	2.15	3,334.88
	10-Mar-04	3,357.32	22.11	24.29	2.18	3,334.88
	15-Mar-04	3,357.32	22.26	25.23	2.97	3,334.61
	17-Mar-04	3,357.32	20.60	25.73	5.13	3,335.95
	22-Mar-04	3,357.32	22.67	25.58	2.91	3,334.21
	24-Mar-04	3,357.32	22.13	24.96	2.83	3,334.77
	29-Mar-04	3,357.32	22.61	25.67	3.06	3,334.25
	31-Mar-04	3,357.32	22.60	25.62	3.02	3,334.27
	12-Apr-04	Not Gauged - Excavation Flooded				
	15-Apr-04	Not Gauged - Excavation Flooded				
	10-Apr-04	Not Gauged - Excavation Flooded				
	19-Apr-04					
	6-May-04	3,357.32	17.52	22.97	5.45	3,338.98
	23-Jun-04					
	25-Jun-04					
	30-Jun-04					

TABLE 1

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

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
TMW-1 (cont.)	18-Aug-04	3,357.32	15.44	20.72	5.28	3,341.09
	10-Sep-04					
	21-Sep-04	3,357.32	16.31	20.00	3.69	3,340.46
	5-Oct-04	Not Gauged - Excavation Flooded				
	19-Oct-04	3,357.32	10.69	15.95	5.26	3,345.84
	2-Nov-04	3,357.32	11.05	14.62	3.57	3,345.73
	15-Nov-04	3,357.32	11.43	15.92	4.49	3,345.22
	6-Dec-04	3,357.32	11.87	14.65	2.78	3,345.03
	21-Dec-04	3,357.32	11.41	15.40	3.99	3,345.31

Elevations based on the North American Vertical Datum of 1929.

Yellow shading indicates sampling event

Note: Heavy rains April 3, 4 & 5, 2004; * denotes excavation flooded 3 weeks.

TABLE 2

Summary of Groundwater Analytical Results - BTEX**Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)**

Well ID	Sample Date	EPA Method SW 846-8260b				
		Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	m, p-Xylenes (mg/L)	o-Xylene (mg/L)
MW-1	02-Nov-04	0.73	0.32	1.00	1.68	0.537
MW - 2	30-Sep-02	<0.001	<0.001	<0.001	<0.001	<0.001
	06-Nov-02	<0.001	<0.001	<0.001	<0.001	<0.001
	27-Feb-03	<0.001	<0.001	<0.001	<0.001	<0.001
	12-May-03	<0.001	<0.001	<0.001	<0.001	<0.001
	20-Aug-03	<0.001	<0.001	<0.001	<0.001	<0.001
	10-Nov-03	<0.001	<0.001	<0.001	<0.002	<0.001
	17-Feb-04	<0.001	<0.001	<0.001	<0.002	<0.001
	06-May-04	<0.001	<0.001	<0.001	<0.002	<0.001
	18-Aug-04	Well placed in annual sampling program				
	02-Nov-04					
MW - 3	30-Sep-02	<0.001	<0.001	<0.001	<0.001	<0.001
	06-Nov-02	<0.001	<0.001	<0.001	<0.001	<0.001
	27-Feb-03	<0.001	<0.001	<0.001	<0.001	<0.001
	12-May-03	<0.001	<0.001	<0.001	<0.001	<0.001
	20-Aug-03	<0.001	<0.001	<0.001	<0.001	<0.001
	10-Nov-03	0.005	<0.001	<0.001	<0.002	<0.001
	25-Nov-03	0.001	<0.001	<0.001	<0.002	<0.001
	17-Feb-04	<0.001	<0.001	<0.001	<0.002	<0.001
	06-May-04	<0.001	<0.001	<0.001	<0.002	<0.001
	18-Aug-04	Well placed in annual sampling program				
	02-Nov-04					
MW - 4	30-Sep-02	2.43	0.740	0.466	0.946	0.284
	06-Nov-02	3.96	0.015	0.174	0.580	0.108
	27-Feb-03	Not Sampled Due to the Presence of PSH				
	12-May-03	1.880	0.004	0.723	0.548	0.056
	20-Aug-03	Not Sampled Due to the Presence of PSH				
	10-Nov-03	0.408	0.001	0.011	0.011	0.001
	17-Feb-04	0.069	0.001	0.003	0.004	0.001
	06-May-04	0.549	0.213	0.394	0.296	0.194
	18-Aug-04	Not Sampled Due to the Presence of PSH				
	02-Nov-04	0.745	<0.001	0.009	0.006	0.004
MW-5	30-Sep-02	Not Sampled Due to the Presence of PSH				
	06-Nov-02	Not Sampled Due to the Presence of PSH				
	27-Feb-03	Not Sampled Due to the Presence of PSH				
	12-May-03	0.226	0.010	0.399	0.704	0.57
	20-Aug-03	Not Sampled Due to the Presence of PSH				
	10-Nov-03	0.511	<0.001	1.070	0.625	0.020
	17-Feb-04	0.445	0.048	3.330	3.010	0.153
	06-May-04	0.074	0.021	0.222	0.273	0.148
	24-Aug-04	0.156	0.004	0.232	0.161	0.124
	02-Nov-04	0.371	<0.001	0.021	0.041	0.001
MW - 6	30-Sep-02	<0.001	<0.001	<0.001	<0.001	<0.001
	06-Nov-02	<0.001	<0.001	<0.001	<0.001	<0.001

TABLE 2

Summary of Groundwater Analytical Results - BTEX**Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)**

Well ID	Sample Date	EPA Method SW 846-8260b				
		Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	m, p-Xylenes (mg/L)	o-Xylene (mg/L)
MW-6 (cont.)	27-Feb-03	<0.001	<0.001	<0.001	<0.001	<0.001
	12-May-03	<0.001	<0.001	<0.001	<0.001	<0.001
	20-Aug-03	<0.001	<0.001	<0.001	<0.001	<0.001
	10-Nov-03	<0.001	<0.001	<0.001	<0.002	<0.001
	17-Feb-04	<0.001	<0.001	<0.001	<0.002	<0.001
	06-May-04	0.004	<0.001	<0.001	0.003	0.001
	18-Aug-04	Well placed in annual sampling program				
	02-Nov-04	<0.001	<0.001	<0.001	<0.002	<0.001
MW - 7	30-Sep-02	<0.001	<0.001	<0.001	<0.001	<0.001
	06-Nov-02	<0.001	<0.001	<0.001	<0.001	<0.001
	27-Feb-03	<0.001	<0.001	<0.001	<0.001	<0.001
	12-May-03	<0.001	<0.001	<0.001	<0.001	<0.001
	20-Aug-03	<0.001	<0.001	<0.001	<0.001	<0.001
	10-Nov-03	<0.001	<0.001	<0.001	<0.002	<0.001
	17-Feb-04	<0.001	<0.001	<0.001	<0.002	<0.001
	06-May-04	<0.001	<0.001	<0.001	<0.002	<0.001
	18-Aug-04	Well placed in annual sampling program				
	02-Nov-04					
MW - 8	30-Sep-02	<0.001	<0.001	<0.001	<0.001	<0.001
	06-Nov-02	<0.001	<0.001	<0.001	<0.001	<0.001
	27-Feb-03	<0.001	<0.001	<0.001	<0.001	<0.001
	12-May-03	<0.001	<0.001	<0.001	<0.001	<0.001
	20-Aug-03	<0.001	<0.001	<0.001	<0.001	<0.001
	10-Nov-03	<0.001	<0.001	<0.001	<0.002	<0.001
	17-Feb-04	<0.001	<0.001	<0.001	<0.002	<0.001
	06-May-04	<0.001	<0.001	<0.001	<0.002	<0.001
	18-Aug-04	Well placed in annual sampling program				
	02-Nov-04					
MW - 9	30-Sep-02	<0.001	<0.001	<0.001	<0.001	<0.001
	06-Nov-02	<0.001	<0.001	<0.001	<0.001	<0.001
	27-Feb-03	<0.001	<0.001	<0.001	<0.001	<0.001
	12-May-03	<0.001	<0.001	<0.001	<0.001	<0.001
	20-Aug-03	<0.001	<0.001	<0.001	<0.001	<0.001
	10-Nov-03	<0.001	<0.001	<0.001	<0.002	<0.001
	17-Feb-04	0.003	<0.001	<0.001	<0.002	<0.001
	06-May-04	0.003	<0.001	<0.001	<0.002	<0.001
	18-Aug-04	Well placed in annual sampling program				
	02-Nov-04	0.136	<0.001	<0.001	0.012	0.010
MW - 10	30-Sep-02	<0.001	<0.001	<0.001	<0.001	<0.001
	06-Nov-02	<0.001	<0.001	<0.001	<0.001	<0.001
	27-Feb-03	<0.001	<0.001	<0.001	<0.001	<0.001
	12-May-03	<0.001	<0.001	<0.001	<0.001	<0.001
	20-Aug-03	<0.001	<0.001	<0.001	<0.001	<0.001
	10-Nov-03	<0.001	<0.001	<0.001	<0.002	<0.001

TABLE 2

Summary of Groundwater Analytical Results - BTEX**Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)**

Well ID	Sample Date	EPA Method SW 846-8260b				
		Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	m, p-Xylenes (mg/L)	o-Xylene (mg/L)
MW-10 (cont.)	17-Feb-04	<0.001	<0.001	<0.001	<0.002	<0.001
	06-May-04	<0.001	<0.001	<0.001	<0.002	<0.001
	18-Aug-04	Well placed in annual sampling program				
	02-Nov-04					
MW-11	30-Sep-02					
	06-Nov-02	<0.001	<0.001	<0.001	<0.001	<0.001
	27-Feb-03	<0.001	<0.001	<0.001	<0.001	<0.001
	12-May-03	<0.001	<0.001	<0.001	<0.001	<0.001
	20-Aug-03	0.147	<0.001	0.069	0.069	0.033
	10-Nov-03	0.526	<0.001	<0.001	0.080	0.047
	17-Feb-04	0.103	<0.001	<0.001	0.013	0.007
	06-May-04	2.05	<0.005	0.253	0.137	0.119
	18-Aug-04	0.097	<0.001	<0.001	0.003	0.00137
	02-Nov-04	0.087	<0.001	<0.001	<0.002	<0.001
MW-12	30-Sep-02					
	06-Nov-02	2.30	0.012	0.005	0.292	0.092
	27-Feb-03	<0.001	<0.001	<0.001	<0.001	<0.001
	12-May-03	0.240	<0.001	<0.001	0.008	0.015
	20-Aug-03	0.257	<0.001	<0.001	0.072	0.013
	10-Nov-03	0.544	<0.001	<0.001	<0.002	0.010
	17-Feb-04	1.210	<0.001	<0.001	0.009	0.002
	06-May-04	1.170	<0.002	0.066	0.117	0.030
	18-Aug-04	0.061	<0.001	0.022	<0.001	<0.001
	02-Nov-04	0.032	<0.001	0.003	<0.002	<0.001
MW-13	30-Sep-02					
	06-Nov-02	0.080	<0.001	<0.001	0.002	0.001
	27-Feb-03	2.14	0.001	0.095	0.711	0.111
	12-May-03	1.65	0.001	0.202	0.069	0.170
	20-Aug-03	1.71	<0.001	0.138	0.015	0.511
	10-Nov-03	1.55	<0.001	0.084	0.003	0.002
	17-Feb-04	0.04	<0.001	0.015	0.003	<0.001
	06-May-04	0.09	<0.001	<0.001	0.003	0.002
	18-Aug-04	0.09	<0.001	0.010	<0.002	<0.001
MW-14	02-Nov-04	0.23	<0.001	0.003	0.005	0.004
	30-Sep-02					
	06-Nov-02	<0.001	<0.001	<0.001	<0.001	<0.001
	27-Feb-03	<0.001	<0.001	<0.001	<0.001	<0.001
	12-May-03	<0.001	<0.001	<0.001	<0.001	<0.001
	20-Aug-03	<0.001	<0.001	<0.001	<0.001	<0.001
	10-Nov-03	<0.001	<0.001	<0.001	<0.002	<0.001
	17-Feb-04	<0.001	<0.001	<0.001	<0.002	<0.001
	06-May-04	<0.001	<0.001	<0.001	<0.002	<0.001
	18-Aug-04	<0.001	<0.001	<0.001	0.016	0.008
	02-Nov-04	0.011	<0.001	<0.001	0.006	0.005

TABLE 2

Summary of Groundwater Analytical Results - BTEX**Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)**

Well ID	Sample Date	EPA Method SW 846-8260b				
		Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	m, p-Xylenes (mg/L)	o-Xylene (mg/L)
MW-15	30-Sep-02					
	06-Nov-02	<0.001	<0.001	<0.001	<0.001	<0.001
	27-Feb-03	<0.001	<0.001	<0.001	<0.001	<0.001
	12-May-03	<0.001	<0.001	<0.001	<0.001	<0.001
	20-Aug-03	<0.001	<0.001	<0.001	<0.001	<0.001
	10-Nov-03	<0.001	<0.001	<0.001	<0.002	<0.001
	17-Feb-04	<0.001	<0.001	<0.001	<0.002	<0.001
	06-May-04	<0.001	<0.001	<0.001	<0.002	<0.001
	24-Aug-04	<0.001	<0.001	<0.001	<0.002	<0.001
	02-Nov-04	Well placed in annual sampling program				
TMW-1	02-Nov-04	4.95	2.78	1.72	2.71	0.783
EB-1	30-Sep-02	<0.001	<0.001	<0.001	<0.001	<0.001
NMOCD Remedial Thresholds		0.01	0.75	0.75	0.62	

Note: N.S. denotes well was not sampled due to the presence of PSH.

Results in bold **RED** are above the NMOCD Remedial Threshold

Summary of Groundwater Analytical Results - PAHs

EPA SW846-8270C, 3510

NMWOC Standards

TABLE 4

Summary of Groundwater Sampling Recommendations

Livingston Ridge to Hugh - P. Sims (Ref. #2001-11005)

Monitoring Well	Eight Quarters Below NMOCD Standards	Sampling Schedule				Notes
		1st Quarter	2nd Quarter	3rd Quarter	4th Quarter	
MW-1	No	X	X	X	X	Recommend Annual PAH analysis
MW-2	Yes			X		Recommend Annual PAH analysis
MW-3	Yes			X		
MW-4	No	X	X	X	X	Recommend Annual PAH analysis
MW-5	No	X	X	X	X	Recommend Annual PAH analysis
MW-6	Yes			X		
MW-7	Yes			X		
MW-8	Yes			X		
MW-9	No	X	X	X	X	Recommend Annual PAH analysis
MW-10	Yes			X		
MW-11	No	X	X	X	X	Recommend Annual PAH analysis
MW-12	No	X	X	X	X	Recommend Annual PAH analysis
MW-13	No	X	X	X	X	Recommend Annual PAH analysis
MW-14	No	X	X	X	X	Recommend Annual PAH analysis
MW-15	Yes			X		
TMW-1	No	X	X	X	X	Recommend Annual PAH analysis

APPENDICES

APPENDIX A

GROUNDWATER ANALYTICAL RESULTS

AND

CHAIN-OF-CUSTODY FORMS



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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 153087 Report Date: 02/27/04

Project ID: LI-2096 Livingston Ridge

Sample Name: MW-2

Sample Matrix: water

Date Received: 02/20/2004 Time: 14:15

Date Sampled: 02/17/2004 Time: 09:30

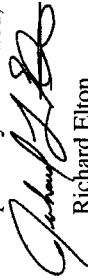
REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		02/24/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/24/04	8260b	---	2	102	103.9	103
Ethylbenzene	<1	µg/L	1	<1	02/24/04	8260b	---	4.6	103.5	110.5	104.5
m,p-Xylenes	<2	µg/L	2	<2	02/24/04	8260b	---	4.1	105.7	111.7	105.8
o-Xylene	<1	µg/L	1	<1	02/24/04	8260b	---	4.1	104.7	110.6	106.1
Toluene	<1	µg/L	1	<1	02/24/04	8260b	---	0.2	106.5	109.9	110.5

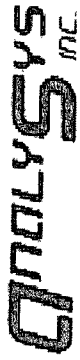
QUALITY ASSURANCE DATA¹

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Respectfully Submitted,


Richard Elton

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Client: Environmental Tech Group
Attn: Robert Eidson

Project ID: LI-2096 Livingston Ridge
Sample Name: MW-2

Report#/Lab ID#: 153087
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	104	74-124	---
Toluene-d8	8260b	108	89-115	---

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



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Client: Environmental Tech Group

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Address: 2540 W. Marland

Hobbs

NM 88240

Phone: 505 397-4882

FAX: 505 397-4701

Report#/Lab ID#: 153088

Report Date: 02/27/04

Project ID: LI-2096 Livingston Ridge

Sample Name: MW-3

Sample Matrix: water

Date Received: 02/20/2004

Time: 14:15

Date Sampled: 02/17/2004

Time: 10:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		02/24/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/24/04	8260b	---	2	102	103.9	103
Ethylbenzene	<1	µg/L	1	<1	02/24/04	8260b	---	4.6	103.5	110.5	104.5
m,p-Xylenes	<2	µg/L	2	<2	02/24/04	8260b	---	4.1	105.7	111.7	105.8
o-Xylene	<1	µg/L	1	<1	02/24/04	8260b	---	4.1	104.7	110.6	106.1
Toluene	<1	µg/L	1	<1	02/24/04	8260b	---	0.2	106.5	109.9	110.5

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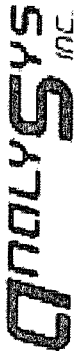
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group Attn: Robert Eidson	Project ID: LI-2096 Livingston Ridge Sample Name: MW-3	Report#/Lab ID#: 153088 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	107	89-115	---

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



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Phone: 505 397-4882

FAX: 505 397-4701

Report#/Lab ID#: 153089

Report Date: 02/27/04

Project ID: LI-2096 Livingston Ridge

Sample Name: MW-4

Sample Matrix: water

Date Received: 02/20/2004

Time: 14:15

Date Sampled: 02/17/2004

Time: 10:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

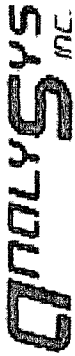
Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		02/24/04	8260b(5030/5035)	---	---	---	---	---
Benzene	69.1	µg/L	1	<1	02/24/04	8260b	---	2.2	93.1	93.1	99
Ethylbenzene	2.52	µg/L	1	<1	02/24/04	8260b	---	4.2	111.3	115.2	108.3
m,p-Xylenes	4.32	µg/L	2	<2	02/24/04	8260b	---	3.5	113.4	115.5	110.3
o-Xylene	1.11	µg/L	1	<1	02/24/04	8260b	---	1.7	125.4	114.5	121.9
Toluene	1.45	µg/L	1	<1	02/24/04	8260b	---	0.9	104.4	102.6	103.8

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group Attn: Robert Eidson	Project ID: LI-2096 Livingston Ridge Sample Name: MW-4	Report#/Lab ID#: 153089 Sample Matrix: water
---	---	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	97.2	74-124	---
Toluene-d8	8260b	105	89-115	---

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



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Report#/Lab ID#: 153090

Report Date: 02/27/04

Project ID: LI-2096 Livingston Ridge

Sample Name: MW-5

Sample Matrix: water

Date Received: 02/20/2004

Time: 14:15

Date Sampled: 02/17/2004

Time: 11:00

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		02/26/04	8260b(5030/5035)	---	---	---	---	---
Benzene	445	µg/L	2	<2	02/26/04	8260b	---	4.2	98.6	100.2	100.7
Ethylbenzene	3330	µg/L	1000	<1000	02/25/04	8260b	---	2.3	103.6	108.1	106.7
m,p-Xylenes	3010	µg/L	2000	<2000	02/25/04	8260b	---	1.6	105.5	109.3	108.6
o-Xylene	153	µg/L	2	<2	02/26/04	8260b	---	2	105	107.6	108.4
Toluene	47.8	µg/L	2	<2	02/26/04	8260b	---	2.5	104.9	105.1	106.3

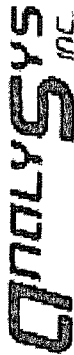
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Client: Environmental Tech Group
Attn: Robert Eidson

Project ID: LI-2096 Livingston Ridge
Sample Name: MW-5

Report#/Lab ID#: 153090
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

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

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



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Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240

Phone: 505 397-4882 FAX: 505 397-4701

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		02/24/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/24/04	8260b	---	2	102	103.9	103
Ethylbenzene	<1	µg/L	1	<1	02/24/04	8260b	---	4.6	103.5	110.5	104.5
m,p-Xylenes	<2	µg/L	2	<2	02/24/04	8260b	---	4.1	105.7	111.7	105.8
o-Xylene	<1	µg/L	1	<1	02/24/04	8260b	---	4.1	104.7	110.6	106.1
Toluene	<1	µg/L	1	<1	02/24/04	8260b	---	0.2	106.5	109.9	110.5

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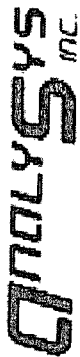
Respectfully Submitted,

Richard Elton

QUALITY ASSURANCE DATA¹

Report#/Lab ID#: 153091 Report Date: 02/27/04
Project ID: LI-2096 Livingston Ridge
Sample Name: MW-6
Sample Matrix: water
Date Received: 02/20/2004 Time: 14:15
Date Sampled: 02/17/2004 Time: 11:30

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). 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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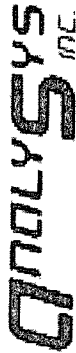
Project ID: LI-2096 Livingston Ridge
Sample Name: MW-6

Report#/Lab ID#: 153091
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.



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Phone: 505 397-4882

FAX: 505 397-4701

Report#/Lab ID#: 153092

Report Date: 02/27/04

Project ID: LI-2096 Livingston Ridge

Sample Name: MW-7

Sample Matrix: water

Date Received: 02/20/2004

Time: 14:15

Date Sampled: 02/17/2004

Time: 12:00

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		02/24/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/24/04	8260b	---	2	102	103.9	103
Ethylbenzene	<1	µg/L	1	<1	02/24/04	8260b	---	4.6	103.5	110.5	104.5
m,p-Xylenes	<2	µg/L	2	<2	02/24/04	8260b	---	4.1	105.7	111.7	105.8
o-Xylene	<1	µg/L	1	<1	02/24/04	8260b	---	4.1	104.7	110.6	106.1
Toluene	<1	µg/L	1	<1	02/24/04	8260b	---	0.2	106.5	109.9	110.5

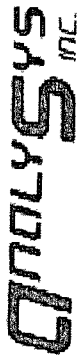
QUALITY ASSURANCE DATA¹

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Client: Environmental Tech Group
Attn: Robert Eidson

Project ID: LI-2096 Livingston Ridge
Sample Name: MW-7

Report#/Lab ID#: 153092
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	102	74-124	---
Toluene-d8	8260b	109	89-115	---

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



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Hobbs

NM 88240

Phone: 505 397-4882

FAX: 505 397-4701

Report#/Lab ID#: 153093

Report Date: 02/27/04

Project ID: LI-2096 Livingston Ridge

Sample Name: MW-8

Sample Matrix: water

Date Received: 02/20/2004

Time: 14:15

Date Sampled: 02/17/2004

Time: 12:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		02/24/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/24/04	8260b	---	2	102	103.9	103
Ethylbenzene	<1	µg/L	1	<1	02/24/04	8260b	---	4.6	103.5	110.5	104.5
m,p-Xylenes	<2	µg/L	2	<2	02/24/04	8260b	---	4.1	105.7	111.7	105.8
o-Xylene	<1	µg/L	1	<1	02/24/04	8260b	---	4.1	104.7	110.6	106.1
Toluene	<1	µg/L	1	<1	02/24/04	8260b	---	0.2	106.5	109.9	110.5

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Respectfully Submitted,

Richard Elton

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

Client: Environmental Tech Group
Attn: Robert Eidson

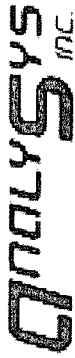
Project ID: LI-2096 Livingston Ridge
Sample Name: MW-8

Report#/Lab ID#: 153093
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	102	74-124	---
Toluene-d8	8260b	110	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 Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 153094 **Report Date:** 02/27/04
Project ID: LI-2096 Livingston Ridge
Sample Name: MW-9
Sample Matrix: water
Date Received: 02/20/2004 **Time:** 14:15
Date Sampled: 02/17/2004 **Time:** 13:00

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		02/24/04	8260b(5030/5035)	---	---	---	---	---
Benzene	2.64	µg/L	1	<1	02/24/04	8260b	---	2	102	103.9	103
Ethylbenzene	<1	µg/L	1	<1	02/24/04	8260b	---	4.6	103.5	110.5	104.5
m,p-Xylenes	<2	µg/L	2	<2	02/24/04	8260b	J	4.1	105.7	111.7	105.8
o-Xylene	<1	µg/L	1	<1	02/24/04	8260b	J	4.1	104.7	110.6	106.1
Toluene	<1	µg/L	1	<1	02/24/04	8260b	---	0.2	106.5	109.9	110.5

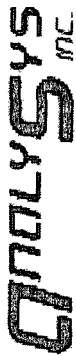
QUALITY ASSURANCE DATA¹

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Client: Environmental Tech Group Attn: Robert Eidson	Project ID: LI-2096 Livingston Ridge Sample Name: MW-9	Report#/Lab ID#: 153094 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	109	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 153094	Matrix: water	Attn: Robert Eidson
Client: Environmental Tech Group		
Project ID: LJ-2096 Livingston Ridge		
Sample Name: MW-9		

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

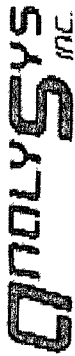
J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

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

Notes:



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Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 153095 Report Date: 02/27/04
Project ID: LI-2096 Livingston Ridge
Sample Name: MW-10
Sample Matrix: water
Date Received: 02/20/2004 Time: 14:15
Date Sampled: 02/17/2004 Time: 13:30

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		02/24/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/24/04	8260b	---	2	102	103.9	103
Ethylbenzene	<1	µg/L	1	<1	02/24/04	8260b	---	4.6	103.5	110.5	104.5
m,p-Xylenes	<2	µg/L	2	<2	02/24/04	8260b	---	4.1	105.7	111.7	105.8
o-Xylene	<1	µg/L	1	<1	02/24/04	8260b	---	4.1	104.7	110.6	106.1
Toluene	<1	µg/L	1	<1	02/24/04	8260b	---	0.2	106.5	109.9	110.5

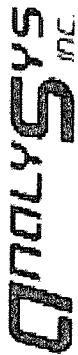
QUALITY ASSURANCE DATA¹

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Richard Elton

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Client: Environmental Tech Group
Attn: Robert Eidson

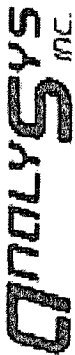
Project ID: LI-2096 Livingston Ridge
Sample Name: MW-10

Report#/Lab ID#: 153095
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	108	89-115	---

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



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Client: Environmental Tech Group

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Address: 2540 W. Marland

Hobbs

NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 153096 **Report Date:** 02/27/04

Project ID: LI-2096 Livingston Ridge

Sample Name: MW-11

Sample Matrix: water

Date Received: 02/20/2004 **Time:** 14:15

Date Sampled: 02/17/2004 **Time:** 14:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

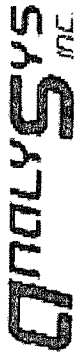
Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		02/24/04	8260b(5030/5035)	---	---	---	---	---
Benzene	103	µg/L	1	<1	02/24/04	8260b	---	2	102	103.9	103
Ethylbenzene	<1	µg/L	1	<1	02/24/04	8260b	---	4.6	103.5	110.5	104.5
m,p-Xylenes	13.2	µg/L	2	<2	02/24/04	8260b	---	4.1	105.7	111.7	105.8
o-Xylene	6.76	µg/L	1	<1	02/24/04	8260b	---	4.1	104.7	110.6	106.1
Toluene	<1	µg/L	1	<1	02/24/04	8260b	---	0.2	106.5	109.9	110.5

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Client: Environmental Tech Group
Attn: Robert Eidson

Project ID: LI-2096 Livingston Ridge
Sample Name: MW-11

Report#/Lab ID#: 153096
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	104	74-124	---
Toluene-d8	8260b	107	89-115	---

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



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Client: Environmental Tech Group

Attn: Robert Eidson

Address: 2540 W. Marland

Hobbs

NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 153097 **Report Date:** 02/27/04

Project ID: LI-2096 Livingston Ridge

Sample Name: MW-12

Sample Matrix: water

Date Received: 02/20/2004 **Time:** 14:15

Date Sampled: not on C-O-C **Time:** 14:30

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		02/25/04	8260b(5030/5035)	---	---	---	---	---
Benzene	1210	µg/L	10	<10	02/25/04	8260b	---	4.2	98.6	100.2	100.7
Ethylbenzene	<1	µg/L	1	<1	02/25/04	8260b	---	2.3	103.6	108.1	106.7
m,p-Xylenes	8.82	µg/L	2	<2	02/25/04	8260b	---	1.6	105.5	109.3	108.6
o-Xylene	22.2	µg/L	1	<1	02/25/04	8260b	---	2	105	107.6	108.4
Toluene	<1	µg/L	1	<1	02/25/04	8260b	J	2.5	104.9	105.1	106.3

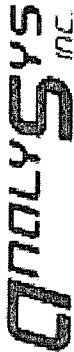
QUALITY ASSURANCE DATA¹

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Client: Environmental Tech Group
Attn: Robert Eidson

Project ID: LI-2096 Livingston Ridge
Sample Name: MW-12

Report#/Lab ID#: 153097
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	109	74-124	---
Toluene-d8	8260b	106	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 153097	Matrix: water	Attn: Robert Eidson
Client: Environmental Tech Group		
Project ID: LJ-2096 Livingston Ridge		
Sample Name: MW-12		

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

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

Sample Bottles & Preservation

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

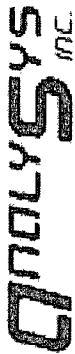
J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

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

Notes:



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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group

Attn: Robert Eidson

Address: 2540 W. Marland

Hobbs

NM 88240

Phone: 505 397-4882

FAX: 505 397-4701

Report#/Lab ID#: 153098

Report Date: 02/27/04

Project ID: LI-2096 Livingston Ridge

Sample Name: MW-13

Sample Matrix: water

Date Received: 02/20/2004 **Time:** 14:15

Date Sampled: not on C-O-C **Time:** 15:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

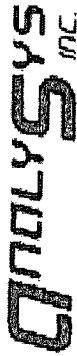
Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		02/25/04	8260b(5030/5035)	---	---	---	---	---
Benzene	42.7	µg/L	1	<1	02/25/04	8260b	---	4.2	98.6	100.2	100.7
Ethylbenzene	15.4	µg/L	1	<1	02/25/04	8260b	---	2.3	103.6	108.1	106.7
m,p-Xylenes	3.37	µg/L	2	<2	02/25/04	8260b	---	1.6	105.5	109.3	108.6
o-Xylene	<1	µg/L	1	<1	02/25/04	8260b	J	2	105	107.6	108.4
Toluene	<1	µg/L	1	<1	02/25/04	8260b	J	2.5	104.9	105.1	106.3

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Client: Environmental Tech Group
Attn: Robert Eidson

Project ID: LI-2096 Livingston Ridge
Sample Name: MW-13

Report#/Lab ID#: 153098
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	107	74-124	---
Toluene-d8	8260b	105	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 153098	Matrix: water	Attn: Robert Eidson
Client: Environmental Tech Group		
Project ID: LI-2096 Livingston Ridge		
Sample Name: MW-13		

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

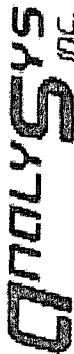
J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

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

Notes:



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

Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240

Phone: 505 397-4882 FAX: 505 397-4701

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		02/24/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/24/04	8260b	---	1.2	103.3	100.3	96.2
Ethylbenzene	<1	µg/L	1	<1	02/24/04	8260b	---	2.3	105.4	107.4	102.9
m,p-Xylenes	<2	µg/L	2	<2	02/24/04	8260b	---	2.7	106.2	108	105.2
o-Xylene	<1	µg/L	1	<1	02/24/04	8260b	---	1.6	107.5	107.3	103.9
Toluene	<1	µg/L	1	<1	02/24/04	8260b	---	2.9	110.3	105.7	101

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Respectfully Submitted,

Richard Elton

QUALITY ASSURANCE DATA¹

Report#/Lab ID#: 153099 Report Date: 02/27/04

Project ID: LI-2096 Livingston Ridge

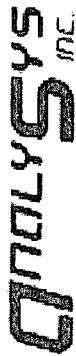
Sample Name: MW-14

Sample Matrix: water

Date Received: 02/20/2004 Time: 14:15

Date Sampled: not on C-O-C Time: 15:30

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). S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher than advisory limit. M =Matrix interference.



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

Client: Environmental Tech Group
Attn: Robert Eidson

Project ID: LI-2096 Livingston Ridge
Sample Name: MW-14

Report#/Lab ID#: 153099
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	105	74-124	---
Toluene-d8	8260b	106	89-115	---

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



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

Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240
Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 153100 **Report Date:** 02/27/04
Project ID: LI-2096 Livingston Ridge
Sample Name: MW-15
Sample Matrix: water
Date Received: 02/20/2004 **Time:** 14:15
Date Sampled: not on C-O-C **Time:** 14:00

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		02/24/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/24/04	8260b	---	1.2	103.3	100.3	96.2
Ethylbenzene	<1	µg/L	1	<1	02/24/04	8260b	---	2.3	105.4	107.4	102.9
m,p-Xylenes	<2	µg/L	2	<2	02/24/04	8260b	---	2.7	106.2	108	105.2
o-Xylene	<1	µg/L	1	<1	02/24/04	8260b	---	1.6	107.5	107.3	103.9
Toluene	<1	µg/L	1	<1	02/24/04	8260b	---	2.9	110.3	105.7	101

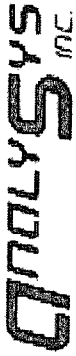
QUALITY ASSURANCE DATA¹

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Respectfully Submitted,


Richard Elton

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

Client: Environmental Tech Group
Attn: Robert Eidson

Project ID: LI-2096 Livingston Ridge
Sample Name: MW-15

Report#/Lab ID#: 153100
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	102	74-124	---
Toluene-d8	8260b	108	89-115	---

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

8772

CHAIN- CUSTODY

www.ana. sinc.com

ANALYTIC'S
INC.

Send Reports To:

Company Name *Environmental Technology Group Inc.*

Bill To (if different):

Company Name *Link*

Address *2540 W. Merland*

City *Holts* State *CA* Zip *92240*

ATTN: *Robert E. Olson*

Phone *(505) 397-4882* Fax *(505) 397-4701*

Project Name/PO# *Livingston Ridge* Sampler *Cody Fisher*

Samples/projects intended for CEQ-TRRP completion require special handling, QC requirements and pricing. To Be successfully completed such projects should be identified and discussed prior to receipt and **MUST BE IDENTIFIED** on this Chain-of-Custody under "special instructions."

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers Shipped	Composite Grab	Lab I.D. # (Lab Only)	Preservative (TRRP-13 Mandatory)											Matrix				Analyze For																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Special Instructions (such as special QC requirements, lists, methods, etc.)

Temperature upon receipt

Consistent with all AC's

YES ☒ NO ☐

Sample Relinquished By

Name

ETGI

Affiliation

2-17-04

Date

Time

Sample Received By

Name

Melanie Thompson

Affiliation

ASL

Date

2/20/04

Time

14:15

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

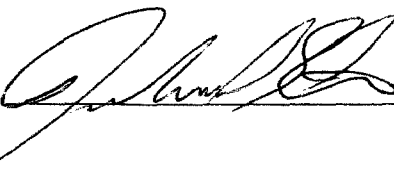
Sample Analysis Case Narrative

Client: Environmental Tech Group Project ID: PL-2096 Livingston Ridge

Attn: Robert Eidson

for Sample #'s: 155407 thru 155420

Analyzed by AnalySys, Inc.

Final Review Date: 5/18/2004 By:  (R. Elton)

Case Narrative:

The recovery of o-Xylene in the Matrix Spike (MS) for the analytical batch that contained sample #'s 155407, 155408, 155411, and 155419 was slightly above normal laboratory acceptance criteria. The Matrix Spike Duplicate (MSD) and the Laboratory Control Sample (LCS) run with this batch met recovery acceptance criteria for the analyte indicating that the analytical method was operating correctly and in control. When viewed within the context of the passing MSD and LCS data, the minimally high MS recovery, and the acceptable surrogate recovery seen for these samples, this deviation in MS recovery should have a minimal impact on data usability.

Client: Environmental Tech Group
Attn: Robert Eldson
Address: 2540 W. Marland
Hobbs NM 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

REPORT OF ANALYSIS

Report#/Lab ID#: 155407 **Report Date:** 05/17/04
Project ID: PL-2096 Livingston Ridge
Sample Name: MW-2
Sample Matrix: water
Date Received: 05/07/2004 **Time:** 13:00
Date Sampled: 05/06/2004 **Time:** 07:45

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		05/12/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	05/12/04	8260b	---	8.9	104.9	96.2	93.9
Ethylbenzene	<1	µg/L	1	<1	05/12/04	8260b	---	4.7	121.6	116.8	109.9
m,p-Xylenes	<2	µg/L	2	<2	05/12/04	8260b	---	4.6	122.7	115.8	111.6
o-Xylene	<1	µg/L	1	<1	05/12/04	8260b	S,M	2.5	131.3	114.4	121.4
Toluene	<1	µg/L	1	<1	05/12/04	8260b	---	1.3	101.8	99.7	96.9

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Respectfully Submitted,


Richard Elton

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Client: Environmental Tech Group	Project ID: PL-2096 Livingston Ridge	Report#/Lab ID#: 155407
Attn: Robert Eidson	Sample Name: MW-2	Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	93.1	74-124	---
Toluene-d8	8260b	115	89-115	---

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

Report #/Lab ID#: 155407 Matrix: water

Client: Environmental Tech Group

Project ID: PL-2096 Livingston Ridge

Sample Name: MW-2

Attn: Robert Eidson

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).

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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
o-Xylene	S,M	MS and/or MSD recoveries outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.

Notes:



Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240
Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 155408 **Report Date:** 05/17/04
Project ID: PL-2096 Livingston Ridge
Sample Name: MW-3
Sample Matrix: water
Date Received: 05/07/2004 **Time:** 13:00
Date Sampled: 05/06/2004 **Time:** 08:30

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	---		---		05/11/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	05/11/04	8260b	---	8.9	104.9	96.2	93.9
Ethylbenzene	<1	µg/L	1	<1	05/11/04	8260b	---	4.7	121.6	116.8	109.9
m,p-Xylenes	<2	µg/L	2	<2	05/11/04	8260b	---	4.6	122.7	115.8	111.6
o-Xylene	<1	µg/L	1	<1	05/11/04	8260b	S,M	2.5	131.3	114.4	121.4
Toluene	<1	µg/L	1	<1	05/11/04	8260b	---	1.3	101.8	99.7	96.9

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Richard Elton

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Client: Environmental Tech Group
Attn: Robert Eidson

Project ID: PL-2096 Livingston Ridge
Sample Name: MW-3

Report#/Lab ID#: 155408
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	95.2	74-124	---
Toluene-d8	8260b	111	89-115	---

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

Report #/Lab ID#: 155408 **Matrix:** water
Client: Environmental Tech Group
Project ID: PL-2096 Livingston Ridge
Sample Name: MW-3
Attn: Robert Eidson

Sample Temperature/Condition:

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

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Comments pertaining to Data Qualifiers and QC data:

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

Notes:

ERROR: typecheck
OFFENDING COMMAND: restore

STACK:

-7.46484

0.0

95

-savelevel-



Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 155409 Report Date: 05/17/04
Project ID: PL-2096 Livingston Ridge
Sample Name: MW-4
Sample Matrix: water
Date Received: 05/07/2004 Time: 13:00
Date Sampled: 05/06/2004 Time: 09:15

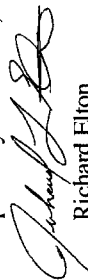
REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---	---	---	---	05/11/04	8260b(5030/5035)	---	---	---	---	---
Benzene	549	µg/L	10	<10	05/11/04	8260b	---	3.4	117.1	112.1	112.3
Ethylbenzene	394	µg/L	10	<10	05/11/04	8260b	---	2	110.5	107	104.5
m,p-Xylenes	296	µg/L	20	<20	05/11/04	8260b	---	1.9	111.7	105.5	106.3
o-Xylene	194	µg/L	10	<10	05/11/04	8260b	---	1.6	112.7	107.5	107.6
Toluene	213	µg/L	10	<10	05/11/04	8260b	---	3.8	125.7	118.9	118.9

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Richard Elton

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Client: Environmental Tech Group
Attn: Robert Eidson

Project ID: PL-2096 Livingston Ridge
Sample Name: MW-4

Report#/Lab ID#: 155409
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	108	74-124	---
Toluene-d8	8260b	106	89-115	---

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



Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240
Phone: 505 397-4882 **FAX:** 505 397-4701

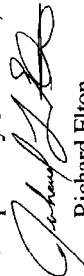
Report#/Lab ID#: 155410 **Report Date:** 05/17/04
Project ID: PL-2096 Livingston Ridge
Sample Name: MW-5
Sample Matrix: water
Date Received: 05/07/2004 **Time:** 13:00
Date Sampled: 05/06/2004 **Time:** 10:00

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		05/11/04	8260b(5030/5035)	---	---	---	---	---
Benzene	74.4	µg/L	10	<10	05/11/04	8260b	---	3.4	117.1	112.1	112.3
Ethylbenzene	222	µg/L	10	<10	05/11/04	8260b	---	2	110.5	107	104.5
m,p-Xylenes	273	µg/L	20	<20	05/11/04	8260b	---	1.9	111.7	105.5	106.3
o-Xylene	148	µg/L	10	<10	05/11/04	8260b	---	1.6	112.7	107.5	107.6
Toluene	20.7	µg/L	10	<10	05/11/04	8260b	---	3.8	125.7	118.9	118.9

QUALITY ASSURANCE DATA 1

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Respectfully Submitted,

Richard Elton

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

Client: Environmental Tech Group Attn: Robert Eidson	Project ID: PL-2096 Livingston Ridge Sample Name: MW-5	Report#/Lab ID#: 155410 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	105	89-115	---

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

Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 155411 Report Date: 05/17/04
Project ID: PL-2096 Livingston Ridge
Sample Name: MW-6
Sample Matrix: water
Date Received: 05/07/2004 Time: 13:00
Date Sampled: 05/06/2004 Time: 10:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		05/12/04	8260b(5030/5035)	---	---	---	---	---
Benzene	4.26	µg/L	1	<1	05/12/04	8260b	---	8.9	104.9	96.2	93.9
Ethylbenzene	<1	µg/L	1	<1	05/12/04	8260b	---	4.7	121.6	116.8	109.9
m,p-Xylenes	2.54	µg/L	2	<2	05/12/04	8260b	---	4.6	122.7	115.8	111.6
o-Xylene	1.3	µg/L	1	<1	05/12/04	8260b	S,M	2.5	131.3	114.4	121.4
Toluene	<1	µg/L	1	<1	05/12/04	8260b	---	1.3	101.8	99.7	96.9

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Respectfully Submitted,


Richard Elton

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

Client: Environmental Tech Group
Attn: Robert Eidson

Project ID: PL-2096 Livingston Ridge
Sample Name: MW-6

Report#/Lab ID#: 155411
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	115	89-115	---

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

02/17/04

Report #/Lab ID#: 155411 Matrix: water

Client: Environmental Tech Group

Project ID: PL-2096 Livingston Ridge

Sample Name: MW-6

Attn: Robert Eidson

Sample Temperature/Condition:

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

Sample Bottles & Preservation:

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

J flag Discussion:

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

Comments pertaining to Data Qualifiers and QC data:

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

Notes:

ERROR: typecheck
OFFENDING COMMAND: restore

STACK:

-7.46484

0.0

95

-savelevel-



Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240
Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 155412 **Report Date:** 05/17/04
Project ID: PL-2096 Livingston Ridge
Sample Name: MW-7
Sample Matrix: water
Date Received: 05/07/2004 **Time:** 13:00
Date Sampled: 05/06/2004 **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	---		---		05/11/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	05/11/04	8260b	---	3.4	117.1	112.1	112.3
Ethylbenzene	<1	µg/L	1	<1	05/11/04	8260b	---	2	110.5	107	104.5
m,p-Xylenes	<2	µg/L	2	<2	05/11/04	8260b	---	1.9	111.7	105.5	106.3
o-Xylene	<1	µg/L	1	<1	05/11/04	8260b	---	1.6	112.7	107.5	107.6
Toluene	<1	µg/L	1	<1	05/11/04	8260b	---	3.8	125.7	118.9	118.9

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Respectfully Submitted,

Richard Elton

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

Client: Environmental Tech Group Attn: Robert Eidson	Project ID: PL-2096 Livingston Ridge Sample Name: MW-7	Report#/Lab ID#: 155412 Sample Matrix: water
---	---	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	104	74-124	---
Toluene-d8	8260b	105	89-115	---

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

Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 155413 Report Date: 05/17/04
Project ID: PL-2096 Livingston Ridge
Sample Name: MW-8
Sample Matrix: water
Date Received: 05/07/2004 Time: 13:00
Date Sampled: 05/06/2004 Time: 12:15

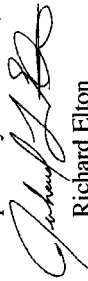
REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		05/11/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	05/11/04	8260b	---	3.4	117.1	112.1	112.3
Ethylbenzene	<1	µg/L	1	<1	05/11/04	8260b	---	2	110.5	107	104.5
m,p-Xylenes	<2	µg/L	2	<2	05/11/04	8260b	---	1.9	111.7	105.5	106.3
o-Xylene	<1	µg/L	1	<1	05/11/04	8260b	---	1.6	112.7	107.5	107.6
Toluene	<1	µg/L	1	<1	05/11/04	8260b	---	3.8	125.7	118.9	118.9

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Client: Environmental Tech Group Attn: Robert Eidson	Project ID: PL-2096 Livingston Ridge Sample Name: MW-8	Report#/Lab ID#: 155413 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	105	89-115	---

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



Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240
Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 155414 **Report Date:** 05/17/04
Project ID: PL-2096 Livingston Ridge
Sample Name: MW-9
Sample Matrix: water
Date Received: 05/07/2004 **Time:** 13:00
Date Sampled: 05/06/2004 **Time:** 13:00

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	---		---		05/11/04	8260b(5030/5035)	---	---	---	---	---
Benzene	2.67	µg/L	1	<1	05/11/04	8260b	---	3.4	117.1	112.1	112.3
Ethylbenzene	<1	µg/L	1	<1	05/11/04	8260b	---	2	110.5	107	104.5
m,p-Xylenes	<2	µg/L	2	<2	05/11/04	8260b	---	1.9	111.7	105.5	106.3
o-Xylene	<1	µg/L	1	<1	05/11/04	8260b	---	1.6	112.7	107.5	107.6
Toluene	<1	µg/L	1	<1	05/11/04	8260b	---	3.8	125.7	118.9	118.9

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Client: Environmental Tech Group
Attn: Robert Eidson

Project ID: PL-2096 Livingston Ridge
Sample Name: MW-9

Report#/Lab ID#: 155414
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	111	74-124	---
Toluene-d8	8260b	102	89-115	---

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



Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240
Phone: 505 397-4882 **FAX:** 505 397-4701

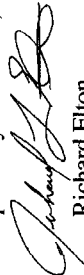
Report#/Lab ID#: 155415 **Report Date:** 05/17/04
Project ID: PL-2096 Livingston Ridge
Sample Name: MW-10
Sample Matrix: water
Date Received: 05/07/2004 **Time:** 13:00
Date Sampled: 05/06/2004 **Time:** 13:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		05/11/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	05/11/04	8260b	---	3.4	117.1	112.1	112.3
Ethylbenzene	<1	µg/L	1	<1	05/11/04	8260b	---	2	110.5	107	104.5
m,p-Xylenes	<2	µg/L	2	<2	05/11/04	8260b	---	1.9	111.7	105.5	106.3
o-Xylene	<1	µg/L	1	<1	05/11/04	8260b	---	1.6	112.7	107.5	107.6
Toluene	<1	µg/L	1	<1	05/11/04	8260b	---	3.8	125.7	118.9	118.9

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Client: Environmental Tech Group
Attn: Robert Eidson

Project ID: PL-2096 Livingston Ridge
Sample Name: MW-10

Report#/Lab ID#: 155415
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	118	74-124	---
Toluene-d8	8260b	101	89-115	---

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

Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240
Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 155416 Report Date: 05/17/04
Project ID: PL-2096 Livingston Ridge
Sample Name: MW-11
Sample Matrix: water
Date Received: 05/07/2004 Time: 13:00
Date Sampled: 05/06/2004 Time: 14:30

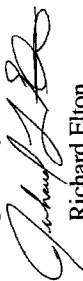
REPORT OF ANALYSIS

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	---		---		05/17/04	8260b(5030/5035)	---	---	---	---	---
Benzene	2050	µg/L	10	<10	05/12/04	8260b	---	1.5	91.5	96.6	93.7
Ethylbenzene	253	µg/L	5	<5	05/17/04	8260b	---	10.1	102.3	119.5	106.5
m,p-Xylenes	137	µg/L	10	<10	05/17/04	8260b	---	10.6	102.6	117.9	107.8
o-Xylene	119	µg/L	5	<5	05/17/04	8260b	---	13.8	109.1	115.6	116.7
Toluene	<5	µg/L	5	<5	05/17/04	8260b	---	1.6	86.6	90.2	85.6

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Richard Elton

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Report#/Lab ID#: 155416
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	97.2	74-124	---
Toluene-d8	8260b	102	89-115	---

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



Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240
Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 155417 **Report Date:** 05/17/04
Project ID: PL-2096 Livingston Ridge
Sample Name: MW-12
Sample Matrix: water
Date Received: 05/07/2004 **Time:** 13:00
Date Sampled: 05/06/2004 **Time:** 15:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		05/17/04	8260b(5030/5035)	---	---	---	---	---
Benzene	1170	µg/L	10	<10	05/13/04	8260b	---	1.5	91.5	96.6	93.7
Ethylbenzene	65.9	µg/L	2	<2	05/17/04	8260b	---	10.1	102.3	119.5	106.5
m,p-Xylenes	117	µg/L	4	<4	05/17/04	8260b	---	10.6	102.6	117.9	107.8
o-Xylene	30.4	µg/L	2	<2	05/17/04	8260b	---	13.8	109.1	115.6	116.7
Toluene	<2	µg/L	2	<2	05/17/04	8260b	---	1.6	86.6	90.2	85.6

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Respectfully Submitted,

Richard Elton

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

Client: Environmental Tech Group Attn: Robert Eidson	Project ID: PL-2096 Livingston Ridge Sample Name: MW-12	Report#/Lab ID#: 155417 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	103	89-115	---

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

Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 155418 Report Date: 05/17/04
Project ID: PL-2096 Livingston Ridge
Sample Name: MW-13
Sample Matrix: water
Date Received: 05/07/2004 Time: 13:00
Date Sampled: 05/06/2004 Time: 16:00

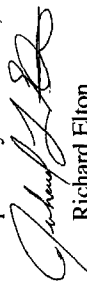
REPORT OF ANALYSIS

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	---		---		05/13/04	8260b(5030/5035)	---	---	---	---	---
Benzene	87.3	µg/L	1	<1	05/13/04	8260b	---	1.5	91.5	96.6	93.7
Ethylbenzene	<1	µg/L	1	<1	05/13/04	8260b	---	10.1	102.3	119.5	106.5
m,p-Xylenes	2.74	µg/L	2	<2	05/13/04	8260b	---	10.6	102.6	117.9	107.8
o-Xylene	2.42	µg/L	1	<1	05/13/04	8260b	---	13.8	109.1	115.6	116.7
Toluene	<1	µg/L	1	<1	05/13/04	8260b	---	1.6	86.6	90.2	85.6

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Respectfully Submitted,


Richard Elton

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Client: Environmental Tech Group
Attn: Robert Eidson

Project ID: PL-2096 Livingston Ridge
Sample Name: MW-13

Report#/Lab ID#: 155418
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	95.3	74-124	---
Toluene-d8	8260b	115	89-115	---

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



Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240
Phone: 505 397-4882 **FAX:** 505 397-4701

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		05/11/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	05/11/04	8260b	---	8.9	104.9	96.2	93.9
Ethylbenzene	<1	µg/L	1	<1	05/11/04	8260b	---	4.7	121.6	116.8	109.9
m,p-Xylenes	<2	µg/L	2	<2	05/11/04	8260b	---	4.6	122.7	115.8	111.6
o-Xylene	<1	µg/L	1	<1	05/11/04	8260b	S,M	2.5	131.3	114.4	121.4
Toluene	<1	µg/L	1	<1	05/11/04	8260b	---	1.3	101.8	99.7	96.9

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Richard Elton

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QUALITY ASSURANCE DATA 1

Report#/Lab ID#: 155419 **Report Date:** 05/17/04
Project ID: PL-2096 Livingston Ridge
Sample Name: MW-14
Sample Matrix: water
Date Received: 05/07/2004 **Time:** 13:00
Date Sampled: 05/06/2004 **Time:** 16:45

Client: Environmental Tech Group Attn: Robert Eidson	Project ID: PL-2096 Livingston Ridge Sample Name: MW-14	Report#/Lab ID#: 155419 Sample Matrix: water
---	--	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	94.2	74-124	---
Toluene-d8	8260b	112	89-115	---

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

Report #/Lab ID#: 155419 Matrix: water
Client: Environmental Tech Group
Project ID: PL-2096 Livingston Ridge
Sample Name: MW-14

Attn: Robert Eidson

Sample Temperature/Condition:

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

Sample Bottles & Preservation:

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

J flag Discussion:

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

Comments pertaining to Data Qualifiers and QC data:

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

Notes:

ERROR: typecheck
OFFENDING COMMAND: restore

STACK:

-7.46484

0.0

95

-savelevel-

Client: Environmental Tech Group
Attn: Robert Eidson
Address: 2540 W. Marland
Hobbs NM 88240
Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 155420 **Report Date:** 05/17/04
Project ID: PL-2096 Livingston Ridge
Sample Name: MW-15
Sample Matrix: water
Date Received: 05/07/2004 **Time:** 13:00
Date Sampled: 05/06/2004 **Time:** 17:15

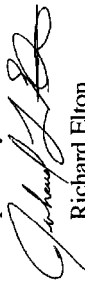
REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		05/12/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	05/12/04	8260b	---	1.5	91.5	96.6	93.7
Ethylbenzene	<1	µg/L	1	<1	05/12/04	8260b	---	10.1	102.3	119.5	106.5
m,p-Xylenes	<2	µg/L	2	<2	05/12/04	8260b	---	10.6	102.6	117.9	107.8
o-Xylene	<1	µg/L	1	<1	05/12/04	8260b	---	13.8	109.1	115.6	116.7
Toluene	<1	µg/L	1	<1	05/12/04	8260b	---	1.6	86.6	90.2	85.6

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Richard Elton

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

Client: Environmental Tech Group Attn: Robert Eidson	Project ID: PL-2096 Livingston Ridge Sample Name: MW-15	Report#/Lab ID#: 155420 Sample Matrix: water
---	--	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	99.1	74-124	---
Toluene-d8	8260b	109	89-115	---

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

Send Reports to:

Company Name Environmental Technology Group
Address 2540 W. Marland
City Hobbs State N.M. Zip 88240
ATTN: Robert E. Edson
Phone (505) 397-4882 Fax (505) 397-4701

Bill to (if different):

Company Name Plains
Address _____
City _____ State _____ Zip _____
ATTN: _____
Phone _____ Fax _____

3512 Montopolis Drive, Austin, TX 78744
Phone: (512) 385-5886 Fax: (512) 385-7411
2209 N.P.I.D., Ste K, Corpus Christi, TX 78408
Phone: (361) 289-6384 Fax: (361) 289-0875

Analyses Requested (1)

Please attach explanatory information as required

Rush Status (must be confirmed with lab mgr.):

Project Name/PO#: Ph 2096 Livingston Ridge Sampler: Coxfisher

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	Comments
mw-2	5-6-04	7:15	2		/		155407	
mw-3	5-6-04	8:30	2		/		155408	
mw-4	5-6-04	9:15	2		/		155409	
mw-5	5-6-04	10:00	2		/		155410	
mw-6	5-6-04	10:45	2		/		155411	
mw- 7 7	5-6-04	11:30	2		/		155412	
mw-8	5-6-04	12:15	2		/		155413	
mw-9	5-6-04	1:00	2		/		155414	
mw-10	5-6-04	1:45	2		/		155415	
mw-11	5-6-04	2:30	2		/		155416	

(1) 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 ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

T31C

Sample Relinquished By			Sample Received By		
Name	Affiliation	Date	Name	Affiliation	Date
<u>Coxfisher</u>	<u>ETGZ</u>	<u>5-6-04</u>	<u>[Signature]</u>	<u>ASI</u>	<u>5/7/04 1300</u>

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

CHAIN-OF-CUSTODY

Send Reports to:

Company Name Environmental Technology Group
 Address 2540 W. Macleod
 City Halifax State N.M. Zip 88240
 ATTN: Robert F. Olson
 Phone (505) 397-4882 Fax (505) 397-4701

WWW.ANALYSYSINC.COM

Bill to (if different):

Company Name Pleins
 Address _____
 City _____ State _____ Zip _____
 ATTN: _____
 Phone _____ Fax _____



3512 Montopolis Drive, Austin, TX 78744
 Phone: (512) 385-5886 Fax: (512) 385-7411
 2209 N.P.I.D., Ste K, Corpus Christi, TX 78408
 Phone: (361) 289-6384 Fax: (361) 289-0875

Rush Status (must be confirmed with lab mgr.):

Project Name/PO#: Pl 2096 Sampler: Cody Fisher
Crownston Ridge

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)	Comments									
mw-12	5-6-04	3:15	2		/		155417										
mw-13	5-6-04	4:00	2		/		155418										
mw-14	5-6-04	4:45	2		/		155419										
mw-15	5-6-04	5:15	2		/		155420										

(1) 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 ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

T: 310

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Cody Fisher	ETGZ	5-6-04		[Signature]	ASI	5/7/04	1300

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

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#: 158699 **Report Date:** 08/31/04
Project ID: 2001-11005
Sample Name: LELR081804MW11
Sample Matrix: water
Date Received: 08/20/2004 **Time:** 10:00
Date Sampled: 08/18/2004 **Time:** 15:26

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	---	---	---	---	08/24/04	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	08/31/04	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	08/24/04	8260b(5030/5035)	---	---	---	---	---
Benzene	97.3	µg/L	1	<1	08/24/04	8260b	---	3.9	97.1	96.7	93.3
Ethylbenzene	<1	µg/L	1	<1	08/24/04	8260b	---	2	103.4	99	98.6
m,p-Xylenes	2.63	µg/L	2	<2	08/24/04	8260b	---	1.7	103.6	97	95.6
o-Xylene	1.37	µg/L	1	<1	08/24/04	8260b	---	2.7	105.9	98.8	97.6
Toluene	<1	µg/L	1	<1	08/24/04	8260b	---	3.1	107.4	102.4	101.3
Acenaphthene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	J,P	39.6	44	92.2	42.2
Acenaphthylene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	41.4	45.7	93.7	44.1
Anthracene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	34.5	46	92.2	44.4
Benzofluoranthene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	31.6	54	97.2	46.9
Benzofluoranthene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	28.1	46.1	99.9	47.2
Benzofluoranthene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	26.3	47.4	101	46.5
Benzofluoranthene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	37.3	39.5	97.7	46.2
Benzofluoranthene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	28.6	45.4	100	48
Chrysene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	31.5	52.3	97.9	45.9
Dibenzofluoranthene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	36.5	41	101.5	46.8
Fluoranthene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	27.6	49	93.6	45.5
Fluorene	0.075	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	37.9	47.1	95	44.9
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	36.7	39.9	100.3	46.6

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Respectfully Submitted,

DW

Date Wagner

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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2001-11005
Sample Name: LELR081804MW11

Report# / Lab ID#: 158699
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	1.4	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	43.1	44.4	93	45
Phenanthrene	0.154	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	33.1	50.3	101	47.2
Pyrene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	32	52.1	96.9	45.5

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2001-11005
Sample Name: LELR081804MW11

Report#/Lab ID#: 158699
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl Nitrobenzene-d5 Terphenyl-d14	610 & 8270c	43.6	39-110	---
	610 & 8270c	44.2	12-110	---
	610 & 8270c	59.7	25-110	---
1,2-Dichloroethane-d4 Toluene-d8	8260b	101	74-124	---
	8260b	101	89-115	---

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

Report #/Lab ID#: 158699 Matrix: water
 Client: Environmental Plus, Inc. Attn: Iain Olness
 Project ID: 2001-11005
 Sample Name: LELR081804MW11

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	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthene	P	
Acenaphthene	J	See J-flag discussion above.
Acenaphthylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthylene	P	
Anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Anthracene	P	
Benzo[a]anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[a]anthracene	P	
Benzo[a]pyrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[a]pyrene	P	
Benzo[b]fluoranthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[b]fluoranthene	P	
Benzo[g,h,i]perylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[g,h,i]perylene	P	
Benzo[j,k]fluoranthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[j,k]fluoranthene	P	
Chrysene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Chrysene	P	
Dibenz[a,h]anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Dibenz[a,h]anthracene	P	
Fluoranthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Fluoranthene	P	
Fluorene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Fluorene	P	
Indeno[1,2,3-cd]pyrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Indeno[1,2,3-cd]pyrene	P	
Naphthalene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Naphthalene	P	

Report #/Lab ID#: 158699 Matrix: water
Client: Environmental Plus, Inc.
Project ID: 2001-11005
Sample Name: LELR081804MW11

Attn: Iain Olness

Phenanthrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Phenanthrene	P	
Pyrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Pyrene	P	

Notes:

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

Report# / Lab ID#: 158700 **Report Date:** 08/31/04
Project ID: 2001-11005
Sample Name: LELR081804MW12
Sample Matrix: water
Date Received: 08/20/2004 **Time:** 10:00
Date Sampled: 08/18/2004 **Time:** 14:39

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	---	---	---	---	08/24/04	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	08/31/04	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	08/26/04	8260b(5030/5035)	---	---	---	---	---
Benzene	61.2	µg/L	1	<1	08/26/04	8260b	---	3.9	97.1	96.7	93.3
Ethylbenzene	22.2	µg/L	1	<1	08/26/04	8260b	---	2	103.4	99	98.6
m,p-Xylenes	<2	µg/L	2	<2	08/26/04	8260b	---	1.7	103.6	97	95.6
o-Xylene	<1	µg/L	1	<1	08/26/04	8260b	J	2.7	105.9	98.8	97.6
Toluene	<1	µg/L	1	<1	08/26/04	8260b	---	3.1	107.4	102.4	101.3
Acenaphthene	0.079	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	39.6	44	92.2	42.2
Acenaphthylene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	J,P	41.4	45.7	93.7	44.1
Anthracene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	J,P	34.5	46	92.2	44.4
Benzofluoranthene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	31.6	54	97.2	46.9
Benzofluoranthene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	28.1	46.1	99.9	47.2
Benzofluoranthene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	26.3	47.4	101	46.5
Benzofluoranthene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	37.3	39.5	97.7	46.2
Benzofluoranthene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	28.6	45.4	100	48
Chrysene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	31.5	52.3	97.9	45.9
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	36.5	41	101.5	46.8
Fluoranthene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	27.6	49	93.6	45.5
Fluorene	0.078	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	37.9	47.1	95	44.9
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	36.7	39.9	100.3	46.6

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

Respectfully Submitted,



Dale Wagner

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

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2001-11005
Sample Name: LELR081804MW12

Report#/Lab ID#: 158700
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	0.262	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	43.1	44.4	93	45
Phenanthrene	0.246	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	33.1	50.3	101	47.2
Pyrene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	32	52.1	96.9	45.5

Client: Environmental Plus, Inc. Attn: Iain Olness	Project ID: 2001-11005 Sample Name: LELR081804MW12	Report#/Lab ID#: 158700 Sample Matrix: water
---	---	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl	610 & 8270c	44.4	39-110	---
Nitrobenzene-d5	610 & 8270c	57.8	12-110	---
Terphenyl-d14	610 & 8270c	47.6	25-110	---
1,2-Dichloroethane-d4	8260b	105	74-124	---
Toluene-d8	8260b	107	89-115	---

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

Report #/Lab ID#: 158700 Matrix: water
Client: Environmental Plus, Inc.
Project ID: 2001-11005
Sample Name: LELR081804MW12

Attn: Iain Olness

Sample Temperature/Condition:

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

Sample Bottles & Preservation:

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

J flag Discussion:

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
o-Xylene	J	See J-flag discussion above.
Acenaphthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthene	P	
Acenaphthylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthylene	P	
Acenaphthylene	J	See J-flag discussion above.
Anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Anthracene	P	
Anthracene	J	See J-flag discussion above.
Benzo[a]anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[a]anthracene	P	
Benzo[a]pyrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[a]pyrene	P	
Benzo[b]fluoranthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[b]fluoranthene	P	
Benzo[g,h,i]perylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[g,h,i]perylene	P	
Benzo[j,k]fluoranthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[j,k]fluoranthene	P	
Chrysene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Chrysene	P	
Dibenz[a,h]anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Dibenz[a,h]anthracene	P	
Fluoranthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Fluoranthene	P	
Fluorene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Fluorene	P	
Indeno[1,2,3-cd]pyrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Indeno[1,2,3-cd]pyrene	P	

Report #/Lab ID#: 158700 Matrix: water
Client: Environmental Plus, Inc. Attn: Iain Olness
Project ID: 2001-11005
Sample Name: LELR081804MW12

Naphthalene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Naphthalene	P	
Phenanthrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Phenanthrene	P	
Pyrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Pyrene	P	

Notes:

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

Report# / Lab ID#: 158701 **Report Date:** 08/31/04
Project ID: 2001-11005
Sample Name: LELR081804MW13
Sample Matrix: water
Date Received: 08/20/2004 **Time:** 10:00
Date Sampled: 08/18/2004 **Time:** 12:18

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	---	---	---	---	08/24/04	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	08/31/04	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	08/26/04	8260b(5030/5035)	---	---	---	---	---
Benzene	90.3	µg/L	1	<1	08/26/04	8260b	---	3.9	97.1	96.7	93.3
Ethylbenzene	9.82	µg/L	1	<1	08/26/04	8260b	---	2	103.4	99	98.6
m,p-Xylenes	<2	µg/L	2	<2	08/26/04	8260b	---	1.7	103.6	97	95.6
o-Xylene	<1	µg/L	1	<1	08/26/04	8260b	---	2.7	105.9	98.8	97.6
Toluene	<1	µg/L	1	<1	08/26/04	8260b	---	3.1	107.4	102.4	101.3
Acenaphthene	0.139	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	39.6	44	92.2	42.2
Acenaphthylene	0.086	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	41.4	45.7	93.7	44.1
Anthracene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	J,P	34.5	46	92.2	44.4
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	31.6	54	97.2	46.9
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	28.1	46.1	99.9	47.2
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	26.3	47.4	101	46.5
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	37.3	39.5	97.7	46.2
Benzo[k]fluoranthene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	28.6	45.4	100	48
Chrysene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	31.5	52.3	97.9	45.9
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	36.5	41	101.5	46.8
Fluoranthene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	27.6	49	93.6	45.5
Fluorene	0.141	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	37.9	47.1	95	44.9
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	36.7	39.9	100.3	46.6

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

Respectfully Submitted,



Dale Wagner

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

Client: Environmental Plus, Inc. Attn: Iain Olness	Project ID: 2001-11005 Sample Name: LELR081804MW13	Report#/Lab ID#: 158701 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	2.34	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	43.1	44.4	93	45
Phenanthrene	0.702	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	33.1	50.3	101	47.2
Pyrene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	32	52.1	96.9	45.5

Client: Environmental Plus, Inc.	Project ID: 2001-11005	Report#/Lab ID#: 158701
Attn: Iain Olness	Sample Name: LELR081804MW13	Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl	610 & 8270c	57.6	39-110	---
Nitrobenzene-d5	610 & 8270c	68.4	12-110	---
Terphenyl-d14	610 & 8270c	56.5	25-110	---
1,2-Dichloroethane-d4	8260b	117	74-124	---
Toluene-d8	8260b	105	89-115	---

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

Report #/Lab ID#: 158701 Matrix: water
Client: Environmental Plus, Inc.
Project ID: 2001-11005
Sample Name: LELR081804MW13

Attn: Iain Olness

Sample Temperature/Condition: <=6°C

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

Sample Bottles & Preservation:

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

J flag Discussion:

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Acenaphthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthene	P	
Acenaphthylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthylene	P	
Anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Anthracene	P	
Anthracene	J	See J-flag discussion above.
Benzo[a]anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[a]anthracene	P	
Benzo[a]pyrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[a]pyrene	P	
Benzo[b]fluoranthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[b]fluoranthene	P	
Benzo[g,h,i]perylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[g,h,i]perylene	P	
Benzo[j,k]fluoranthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[j,k]fluoranthene	P	
Chrysene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Chrysene	P	
Dibenz[a,h]anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Dibenz[a,h]anthracene	P	
Fluoranthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Fluoranthene	P	
Fluorene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Fluorene	P	
Indeno[1,2,3-cd]pyrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Indeno[1,2,3-cd]pyrene	P	
Naphthalene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Naphthalene	P	

Report #/Lab ID#: 158701 Matrix: water

Client: Environmental Plus, Inc.

Attn: Iain Olness

Project ID: 2001-11005

Sample Name: LELR081804MW13

Phenanthrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Phenanthrene	P	
Pyrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Pyrene	P	

Notes:

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

Report#/Lab ID#: 158702 **Report Date:** 08/31/04
Project ID: 2001-11005
Sample Name: LELR081804MW14
Sample Matrix: water
Date Received: 08/20/2004 **Time:** 10:00
Date Sampled: 08/18/2004 **Time:** 13:03

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	---	---	---	---	08/24/04	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	08/31/04	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	08/24/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	08/24/04	8260b	---	3.9	97.1	96.7	93.3
Ethylbenzene	<1	µg/L	1	<1	08/24/04	8260b	---	2	103.4	99	98.6
m,p-Xylenes	15.7	µg/L	2	<2	08/24/04	8260b	---	1.7	103.6	97	95.6
o-Xylene	7.96	µg/L	1	<1	08/24/04	8260b	---	2.7	105.9	98.8	97.6
Toluene	<1	µg/L	1	<1	08/24/04	8260b	---	3.1	107.4	102.4	101.3
Acenaphthene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	39.6	44	92.2	42.2
Acenaphthylene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	41.4	45.7	93.7	44.1
Anthracene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	34.5	46	92.2	44.4
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	31.6	54	97.2	46.9
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	28.1	46.1	99.9	47.2
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	26.3	47.4	101	46.5
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	37.3	39.5	97.7	46.2
Benzo[k]fluoranthene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	28.6	45.4	100	48
Chrysene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	31.5	52.3	97.9	45.9
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	36.5	41	101.5	46.8
Fluoranthene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	27.6	49	93.6	45.5
Fluorene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	J,P	37.9	47.1	95	44.9
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	36.7	39.9	100.3	46.6

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

Respectfully Submitted,



Dale Wagner

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



Client: Environmental Plus, Inc.
Attn: John Ohness

Project ID: 2001-11005
Sample Name: LELR081804MW14

Report# / Lab ID#: 158702
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	1.19	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	43.1	44.4	93	45
Phenanthrene	0.079	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	33.1	50.3	101	47.2
Pyrene	<0.05	µg/L	0.05	<0.05	08/31/04	610 & 8270c	P	32	52.1	96.9	45.5

Client: Environmental Plus, Inc. Attn: Iain Olness	Project ID: 2001-11005 Sample Name: LELR081804MW14	Report#/Lab ID#: 158702 Sample Matrix: water
---	---	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl	610 & 8270c	53.4	39-110	---
Nitrobenzene-d5	610 & 8270c	62.8	12-110	---
Terphenyl-d14	610 & 8270c	52.8	25-110	---
1,2-Dichloroethane-d4	8260b	104	74-124	---
Toluene-d8	8260b	99.6	89-115	---

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

Report #/Lab ID#: 158702 Matrix: water
Client: Environmental Plus, Inc.
Project ID: 2001-11005
Sample Name: LELR081804MW14

Attn: Iain Olness

Sample Temperature/Condition: <=6°C

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

Sample Bottles & Preservation:

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

J flag Discussion:

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Acenaphthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthene	P	
Acenaphthylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthylene	P	
Anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Anthracene	P	
Benzo[a]anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[a]anthracene	P	
Benzo[a]pyrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[a]pyrene	P	
Benzo[b]fluoranthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[b]fluoranthene	P	
Benzo[g,h,i]perylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[g,h,i]perylene	P	
Benzo[j,k]fluoranthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzo[j,k]fluoranthene	P	
Chrysene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Chrysene	P	
Dibenz[a,h]anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Dibenz[a,h]anthracene	P	
Fluoranthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Fluoranthene	P	
Fluorene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Fluorene	P	
Fluorene	J	See J-flag discussion above.
Indeno[1,2,3-cd]pyrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Indeno[1,2,3-cd]pyrene	P	
Naphthalene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Naphthalene	P	

Report #/Lab ID#: 158702 Matrix: water
Client: Environmental Plus, Inc. Attn: Iain Olness
Project ID: 2001-11005
Sample Name: LELR081804MW14

Phenanthrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Phenanthrene	P	
Pyrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Pyrene	P	

Notes:

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

Report# / Lab ID#: 158703 **Report Date:** 08/31/04
Project ID: 2001-11005
Sample Name: LELR081804MW15
Sample Matrix: water
Date Received: 08/20/2004 **Time:** 10:00
Date Sampled: 08/18/2004 **Time:** 13:55

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
Volatiles organics-8260b/BTEX	---		---		08/23/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	08/23/04	8260b	J	3.9	97.1	96.7	93.3
Ethylbenzene	<1	µg/L	1	<1	08/23/04	8260b	---	2	103.4	99	98.6
m,p-Xylenes	<2	µg/L	2	<2	08/23/04	8260b	---	1.7	103.6	97	95.6
o-Xylene	<1	µg/L	1	<1	08/23/04	8260b	---	2.7	105.9	98.8	97.6
Toluene	<1	µg/L	1	<1	08/23/04	8260b	---	3.1	107.4	102.4	101.3

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

Respectfully Submitted,

 Dale Wagner

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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2001-11005
Sample Name: LELR081804MW15

Report#/Lab ID#: 158703
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	99.3	74-124	---
Toluene-d8	8260b	107	89-115	---

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

Report #/Lab ID#: 158703 **Matrix:** water
Client: Environmental Plus, Inc. **Attn:** Iain Olness
Project ID: 2001-11005
Sample Name: LELR081804MW15

Sample Temperature/Condition: <=6°C

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

Sample Bottles & Preservation:

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

J flag Discussion:

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

Comments pertaining to Data Qualifiers and QC data:

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

Notes:

105334

Analysys Inc.

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

Chain of Custody Form

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

Company Name		Environmental Plus, Inc.		Bill To		ANALYSIS REQUEST																
EPI Project Manager		Iain Olness		PLAINS ALL AMERICAN PIPELINE, L.P.																		
Mailing Address		P.O. BOX 1558		Attn: Camille Reynolds																		
City, State, Zip		Eunice New Mexico 88231		5805 East Highway 80																		
EPI Phone#/Fax#		505-394-3481 / 505-394-2601		Midland, TX 79706																		
Client Company		Plains All American																				
Facility Name		Livingston Ridge to Hugh Sims																				
Project Reference		2001-11005																				
EPI Sampler Name		Manuel Gonzales																				
LAB I.D.	SAMPLE I.D.	(G) RAB OR (C) OMP.	# CONTAINERS	GROUND WATER	WASTEWATER	SOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE	ICE/COOL	OTHER	DATE	TIME	BTEX 8021B	TPH 8015M	CHLORIDES (Cl)	SULFATES (SO ₄)	PH	TCLP	OTHER >>	PAH
1	LELR081804MW11	G	4	X						X	X	X	18-Aug	15:26	X							X
2	158699	G	4	X						X	X	X	18-Aug	15:26	X							X
3	158700	G	4	X						X	X	X	18-Aug	14:39	X							X
4	158701	G	4	X						X	X	X	18-Aug	12:18	X							X
5	158702	G	4	X						X	X	X	18-Aug	13:03	X							X
6	158703	G	4	X						X	X	X	18-Aug	13:55	X							X
7																						
8																						
9																						
10																						

Sampler Relinquished: *Manuel Gonzales*

Relinquished by: *Manuel Gonzales*

Delivered by: *Manuel Gonzales*

Received By: *Manuel Gonzales*

Received By: (lab staff) *Manuel Gonzales*

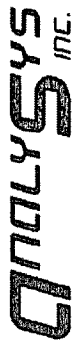
Sample Cool & Intact: Yes ☒ No ☐

Checked By: *Manuel Gonzales*

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

REMARKS:

T: 57 C



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

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

Report#/Lab ID#: 159111 **Report Date:** 09/09/04
Project ID: 2001-11005
Sample Name: LELR082404MW5
Sample Matrix: water
Date Received: 08/27/2004 **Time:** 09:55
Date Sampled: 08/24/2004 **Time:** 09:33

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	---	---	---	---	09/03/04	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	09/09/04	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	09/04/04	8260b(5030/5035)	---	---	---	---	---
Benzene	156	µg/L	1	<1	09/04/04	8260b	---	6.4	81.2	85	84.1
Ethylbenzene	232	µg/L	1	<1	09/04/04	8260b	---	5.1	89.5	96	93.7
m,p-Xylenes	161	µg/L	2	<2	09/04/04	8260b	---	0.7	93.7	94.4	93.6
o-Xylene	124	µg/L	1	<1	09/04/04	8260b	---	7.2	92.5	98.5	97.8
Toluene	3.85	µg/L	1	<1	09/04/04	8260b	---	3.7	91.5	91.2	93.4
Acenaphthene	0.092	µg/L	0.05	<0.05	09/09/04	610 & 8270c	---	16.9	22.7	105.9	22.6
Acenaphthylene	0.07	µg/L	0.05	<0.05	09/09/04	610 & 8270c	---	16.3	30	107.2	23.6
Anthracene	<0.05	µg/L	0.05	<0.05	09/09/04	610 & 8270c	---	2.6	46.1	91.3	24.5
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	09/09/04	610 & 8270c	---	13.8	48.7	130.1	33.8
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	09/09/04	610 & 8270c	---	14.4	36.8	107.9	18.3
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	09/09/04	610 & 8270c	P	20.4	43.1	139.2	34.6
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	09/09/04	610 & 8270c	---	17.1	41.1	114.5	22
Benzo[j,k]fluoranthene	0.06	µg/L	0.05	<0.05	09/09/04	610 & 8270c	---	18.2	33	93.4	24.5
Chrysene	0.114	µg/L	0.05	<0.05	09/09/04	610 & 8270c	---	10.7	41.8	99	28.6
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	09/09/04	610 & 8270c	P	18	39	114.2	23
Fluoranthene	<0.05	µg/L	0.05	<0.05	09/09/04	610 & 8270c	---	8.4	45.6	108.9	30.5
Fluorene	0.419	µg/L	0.05	<0.05	09/09/04	610 & 8270c	---	14.7	23.2	95.1	23.9
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	09/09/04	610 & 8270c	P	16.1	39.3	113.8	25.1

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

Respectfully Submitted,

Dale Wagner

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

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2001-11005
Sample Name: LELR082404MW5

Report# / Lab ID#: 159111
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	7.68	µg/L	5	<5	09/09/04	610 & 8270c	---	14.5	68.3	100.4	20.8
Phenanthrene	0.898	µg/L	0.05	<0.05	09/09/04	610 & 8270c	---	9.4	49.6	119.7	35.5
Pyrene	<0.05	µg/L	0.05	<0.05	09/09/04	610 & 8270c	J	8.2	47.4	106.7	30.8



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

Client: Environmental Plus, Inc. Attn: Iain Olness	Project ID: 2001-11005 Sample Name: LELR082404MW5	Report#/Lab ID#: 159111 Sample Matrix: water
---	--	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl	610 & 8270c	60.4	39-110	---
Nitrobenzene-d5	610 & 8270c	69.2	12-110	---
Terphenyl-d14	610 & 8270c	49.6	25-110	---
1,2-Dichloroethane-d4	8260b	101	74-124	---
Toluene-d8	8260b	108	89-115	---

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

Exceptions Report:

Report #/Lab ID#: 159111	Matrix: water	Attn: Iain Olness
Client: Environmental Plus, Inc.		
Project ID: 2001-11005		
Sample Name: LELR082404MW5		

Sample Temperature/Condition: >6

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

Sample Bottles & Preservation:

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

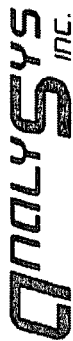
J flag Discussion:

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzol[b]fluoranthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Benzol[b]fluoranthene	P	
Dibenz[a,h]anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Dibenz[a,h]anthracene	P	
Indeno[1,2,3-cd]pyrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Indeno[1,2,3-cd]pyrene	P	
Pyrene	J	See J-flag discussion above.

Notes:



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

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

Report# / Lab ID#: 159112 **Report Date:** 09/09/04
Project ID: 2001-11005
Sample Name: LELR082404MW15
Sample Matrix: water
Date Received: 08/27/2004 **Time:** 09:55
Date Sampled: 08/24/2004 **Time:** 09:02

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	---	---	---	---	09/03/04	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	09/09/04	610 & 8270c	---	---	---	---	---
Acenaphthene	<0.05	µg/L	0.05	<0.05	09/09/04	610 & 8270c	---	16.9	22.7	105.9	22.6
Acenaphthylene	<0.05	µg/L	0.05	<0.05	09/09/04	610 & 8270c	---	16.3	30	107.2	23.6
Anthracene	<0.05	µg/L	0.05	<0.05	09/09/04	610 & 8270c	---	2.6	46.1	91.3	24.5
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	09/09/04	610 & 8270c	---	13.8	48.7	130.1	33.8
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	09/09/04	610 & 8270c	---	14.4	36.8	107.9	18.3
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	09/09/04	610 & 8270c	P	20.4	43.1	139.2	34.6
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	09/09/04	610 & 8270c	---	17.1	41.1	114.5	22
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	09/09/04	610 & 8270c	---	18.2	33	93.4	24.5
Chrysene	<0.05	µg/L	0.05	<0.05	09/09/04	610 & 8270c	---	10.7	41.8	99	28.6
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	09/09/04	610 & 8270c	P	18	39	114.2	23
Fluoranthene	<0.05	µg/L	0.05	<0.05	09/09/04	610 & 8270c	---	8.4	45.6	108.9	30.5
Fluorene	<0.05	µg/L	0.05	<0.05	09/09/04	610 & 8270c	---	14.7	23.2	95.1	23.9
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	09/09/04	610 & 8270c	P	16.1	39.3	113.8	25.1
Naphthalene	<0.05	µg/L	0.05	<0.05	09/09/04	610 & 8270c	---	14.5	68.3	100.4	20.8
Phenanthrene	<0.05	µg/L	0.05	<0.05	09/09/04	610 & 8270c	---	9.4	49.6	119.7	35.5
Pyrene	<0.05	µg/L	0.05	<0.05	09/09/04	610 & 8270c	---	8.2	47.4	106.7	30.8

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

Respectfully Submitted,

Dale Wagner

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



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

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2001-11005
Sample Name: LELR082404MW15

Report#/Lab ID#: 159112
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl	610 & 8270c	50.9	39-110	---
Nitrobenzene-d5	610 & 8270c	43.1	12-110	---
Terphenyl-d14	610 & 8270c	59.9	25-110	---

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

Exceptions Report:

Report #/Lab ID#: 159112 Matrix: water
Client: Environmental Plus, Inc. Attn: Iain Olness
Project ID: 2001-11005
Sample Name: LELR082404MW15

Sample Temperature/Condition: >6

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

Sample Bottles & Preservation:

- ☒ Sample received in appropriate container(s) and appear to be appropriately preserved.
- ☐ Sample received in inappropriate 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
Benzol(b)fluoranthene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
Benzol(b)fluoranthene	P	
Dibenz(a,h)anthracene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
Dibenz(a,h)anthracene	P	
Indeno(1,2,3-cd)pyrene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyseswhere MS/MSD are not run) is outside advisory/acceptance limits.
Indeno(1,2,3-cd)pyrene	P	

Notes:

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

Chain of Custody Form

[illegible]

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

Report# / Lab ID#: 161450 **Report Date:** 11/23/04
Project ID: 2001-11005
Sample Name: PAALRHPS110204MW6
Sample Matrix: water
Date Received: 11/05/2004 **Time:** 13:55
Date Sampled: 11/02/2004 **Time:** 00:00

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
A/BN Extraction-PAH	---	---	---	---	11/09/04	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	11/11/04	610 & 8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	11/11/04	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/11/04	8260b	---	13.1	92.3	91	93.1
Ethylbenzene	<1	µg/L	1	<1	11/11/04	8260b	---	0.7	111.8	108.9	107.8
m,p-Xylenes	<2	µg/L	2	<2	11/11/04	8260b	---	1	108.1	105.4	106.5
o-Xylene	<1	µg/L	1	<1	11/11/04	8260b	---	0	114.6	111	112
Toluene	<1	µg/L	1	<1	11/11/04	8260b	---	12.9	98.2	95.6	111.2
Acenaphthene	<0.05	µg/L	0.05	<0.05	11/11/04	610 & 8270c	---	16.5	43	115.6	50
Acenaphthylene	<0.05	µg/L	0.05	<0.05	11/11/04	610 & 8270c	---	16.1	42.9	115.1	49.4
Anthracene	<0.05	µg/L	0.05	<0.05	11/11/04	610 & 8270c	---	9.3	48.2	112.1	60.3
Benzofluranthene	<0.05	µg/L	0.05	<0.05	11/11/04	610 & 8270c	---	10.4	40.4	106	63
Benzoflapyrene	<0.05	µg/L	0.05	<0.05	11/11/04	610 & 8270c	---	11.2	34.7	104.5	61.5
Benzoflapyrene	<0.05	µg/L	0.05	<0.05	11/11/04	610 & 8270c	---	11.3	36.8	103.9	65.6
Benzoflapyrene	<0.05	µg/L	0.05	<0.05	11/11/04	610 & 8270c	---	13.3	32.8	105	62.1
Benzoflapyrene	<0.05	µg/L	0.05	<0.05	11/11/04	610 & 8270c	---	12.4	34.6	107.3	62.6
Chrysene	<0.05	µg/L	0.05	<0.05	11/11/04	610 & 8270c	---	11.3	39.2	106	63.5
Dibenzoflapyrene	<0.05	µg/L	0.05	<0.05	11/11/04	610 & 8270c	---	14.5	33.2	106.1	63.6
Fluoranthene	<0.05	µg/L	0.05	<0.05	11/11/04	610 & 8270c	---	8.6	51	108.3	63
Fluorene	<0.05	µg/L	0.05	<0.05	11/11/04	610 & 8270c	---	13.8	43.3	115	52
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	11/11/04	610 & 8270c	---	13.5	33.6	106.4	63.7

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

Respectfully Submitted,

Dale Wagner

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

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2001-11005
Sample Name: PAALRHPS110204MW6

Report#/Lab ID#: 161450
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	11/11/04	610 & 8270c	---	14.7	39.7	114.3	43.9
Phenanthrene	<0.05	µg/L	0.05	<0.05	11/11/04	610 & 8270c	---	5.4	54.3	109.1	62.5
Pyrene	<0.05	µg/L	0.05	<0.05	11/11/04	610 & 8270c	---	5.4	50.7	105.3	60.4



Client: Environmental Plus, Inc.
Attn: Iain Olness

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl	610 & 8270c	51.7	30-110	---
Nitrobenzene-d5	610 & 8270c	49.9	12-110	---
Terphenyl-d14	610 & 8270c	44.5	25-110	---
1,2-Dichloroethane-d4	8260b	107	74-124	---
Toluene-d8	8260b	112	89-115	---

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

Project ID: 2001-11005
Sample Name: PAALRHPS110204MW6

Report#/Lab ID#: 161450
Sample Matrix: water

2209 N. Padre Island Blvd., Corpus Christi, TX 78406
(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#: 161552 **Report Date:** 11/15/04
Project ID: 2001-11005 Livingston Rdg to High P. Sim
Sample Name: PAALRHPS110204MW4
Sample Matrix: water
Date Received: 11/10/2004 **Time:** 10:00
Date Sampled: 11/02/2004 **Time:** 08:04

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
Volatile organics-8260b/BTEX	---		---		11/12/04	8260b(5030/5035)	---	---	---	---	---
Benzene	745	µg/L	10	<10	11/11/04	8260b	---	1.6	103.7	99.1	100.5
Ethylbenzene	8.56	µg/L	1	<1	11/12/04	8260b	---	2.9	108.3	109.3	111.4
m,p-Xylenes	6.48	µg/L	2	<2	11/12/04	8260b	---	4.8	102.3	101.3	108.1
o-Xylene	3.64	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. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

DW

Dale Wagner

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



Client: Environmental Plus, Inc.
Attn: Iain Olness

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	104	74-124	---
Toluene-d8	8260b	112	89-115	---

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

Project ID: 2001-11005 Livingston Rdg to High P. Sim
Sample Name: PAALRHPS110204MW4

Report#/Lab ID#: 161552
Sample Matrix: water

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
Eminec, NM 88231
Phone: (505) 394-3481 **FAX:** (505) 394-2601

Report#/Lab ID#: 161451 **Report Date:** 11/23/04
Project ID: 2001-11005
Sample Name: PAALRHPS110204MW4
Sample Matrix: water
Date Received: 11/05/2004 **Time:** 13:55
Date Sampled: 11/02/2004 **Time:** 08:04

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	---	---	---	---	11/09/04	3520	---	---	---	---	---
Extractable organics-PAH	---	---	---	---	11/20/04	610 & 8270c	---	---	---	---	---
Acenaphthene	<0.05	µg/L	0.05	<0.05	11/20/04	610 & 8270c	J,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[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	0.2	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
Naphthalene	2.5	µg/L	0.05	<0.05	11/20/04	610 & 8270c	P	29	46.4	100	52.2
Phenanthrene	0.227	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

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

Respectfully Submitted,


Dale Wagner

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Client: Environmental Plus, Inc.
Attn: Iain Olness

1000 N. Island, Cape Cod, MA 02548
(512) 385-5886 • FAX (512) 385-7411

Project ID: 2001-11005
Sample Name: PAALRHPS110204MW4

Report#/Lab ID#: 161451
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
2-Fluorobiphenyl	610 & 8270c	43.6	30-110	---
Nitrobenzene-d5	610 & 8270c	43.2	12-110	---
Terphenyl-d14	610 & 8270c	21.2	25-110	X

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

Report #/Lab ID#: 161451 Matrix: water

Client: Environmental Plus, Inc.

Attn: Iain Olness

Project ID: 2001-11005

Sample Name: PAALRHPS110204MW4

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	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthene	P	
Acenaphthene	J	See J-flag discussion above.
Acenaphthylene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Acenaphthylene	P	
Benzo[g,h,i]perylene	S,M	MS and/or MSD recovers 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 recovers outside target recov. limits. LCS recovery in-limits; indicative of potential matrix interference as evidenced by M-flag.
Naphthalene	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Naphthalene	P	
Terphenyl-d14	X	Surrogate recovery outside advisory/acceptance limits. Typically verified by reanalysis or reextraction & reanalysis. In some well known matrices (sample sources with known interferences) and for some conditions, reextraction and/or reanalysis may be at analysts discretion.
Terphenyl-d14	X	

Notes:

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

Report#/Lab ID#: 161452 **Report Date:** 11/23/04
Project ID: 2001-11005
Sample Name: PAALRHPS110204MW/5
Sample Matrix: water
Date Received: 11/05/2004 **Time:** 13:55
Date Sampled: 11/02/2004 **Time:** 10:21

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX					11/12/04	8260b(5030/5035)					
Benzene	371	µg/L	10	<10	11/11/04	8260b		13.1	92.3	91	93.1
Ethylbenzene	20.9	µg/L	1	<1	11/12/04	8260b		0.7	111.8	108.9	107.8
m,p-Xylenes	40.7	µg/L	2	<2	11/12/04	8260b		1	108.1	105.4	106.5
o-Xylene	1.02	µg/L	1	<1	11/12/04	8260b		0	114.6	111	112
Toluene	<1	µg/L	1	<1	11/12/04	8260b		12.9	98.2	95.6	111.2

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Respectfully Submitted,

Date Wagner

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

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2001-11005
Sample Name: PAALRHPS110204MW5

Report#/Lab ID#: 161452
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	119	74-124	---
Toluene-d8	8260b	101	89-115	---

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



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

Report#/Lab ID#: 161453 **Report Date:** 11/23/04
Project ID: 2001-11005
Sample Name: PAALRHPS110204TMW1
Sample Matrix: water
Date Received: 11/05/2004 **Time:** 13:55
Date Sampled: 11/02/2004 **Time:** 15:32

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA

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	4950	µg/L	100	<100	11/11/04	8260b	---	13.1	92.3	91	93.1
Ethylbenzene	1720	µg/L	100	<100	11/11/04	8260b	---	0.7	111.8	108.9	107.8
m,p-Xylenes	2710	µg/L	200	<200	11/11/04	8260b	---	1	108.1	105.4	106.5
o-Xylene	783	µg/L	100	<100	11/11/04	8260b	---	0	114.6	111	112
Toluene	2780	µg/L	100	<100	11/11/04	8260b	---	12.9	98.2	95.6	111.2

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

Respectfully Submitted,

Date Wagner

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Client: Environmental Plus, Inc. Attn: Iain Olness	Project ID: 2001-11005 Sample Name: PAALRHPS110204TMW1	Report#/Lab ID#: 161453 Sample Matrix: water
---	---	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	117	74-124	---
Toluene-d8	8260b	108	89-115	---

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

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

Report#/Lab ID#: 161454 **Report Date:** 11/23/04
Project ID: 2001-11005
Sample Name: PAALRHPS110204MW13
Sample Matrix: water
Date Received: 11/05/2004 **Time:** 13:55
Date Sampled: 11/02/2004 **Time:** 14:48

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	233	µg/L	1	<1	11/12/04	8260b	---	13.1	92.3	91	93.1
Ethylbenzene	3.48	µg/L	1	<1	11/12/04	8260b	---	0.7	111.8	108.9	107.8
m,p-Xylenes	4.64	µg/L	2	<2	11/12/04	8260b	---	1	108.1	105.4	106.5
o-Xylene	3.8	µg/L	1	<1	11/12/04	8260b	---	0	114.6	111	112
Toluene	<1	µg/L	1	<1	11/12/04	8260b	---	12.9	98.2	95.6	111.2

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Respectfully Submitted,

Dale Wagner

Dale Wagner

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



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2209 N. Padre Island Dr., Corpus Christi, TX 78408
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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2001-11005
Sample Name: PAALRHPS110204MW13

Report#/Lab ID#: 161454
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	122	74-124	--
Toluene-d8	8260b	103	89-115	--

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

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

Report#/Lab ID#: 161455 **Report Date:** 11/23/04
Project ID: 2001-11005
Sample Name: PAALRHPS110204MW1
Sample Matrix: water
Date Received: 11/05/2004 **Time:** 13:55
Date Sampled: 11/02/2004 **Time:** 07:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		11/11/04	8260b(5030/5035)	---	---	---	---	---
Benzene	725	µg/L	100	<100	11/11/04	8260b	---	13.1	92.3	91	93.1
Ethylbenzene	995	µg/L	100	<100	11/11/04	8260b	---	0.7	111.8	108.9	107.8
m,p-Xylenes	1680	µg/L	200	<200	11/11/04	8260b	---	1	108.1	105.4	106.5
o-Xylene	537	µg/L	100	<100	11/11/04	8260b	---	0	114.6	111	112
Toluene	321	µg/L	100	<100	11/11/04	8260b	---	12.9	98.2	95.6	111.2

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

Respectfully Submitted,

DW

Date Wagner

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

Client: Environmental Plus, Inc. Attn: Ian Olness	Project ID: 2001-11005 Sample Name: PAALRHPS110204MW1	Report#/Lab ID#: 161455 Sample Matrix: water
--	--	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	109	74-124	---
Toluene-d8	8260b	106	89-115	---

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

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

NM 88231

Report#/Lab ID#: 161456 **Report Date:** 11/23/04
Project ID: 2001-11005
Sample Name: PAALRHPS110204MW11
Sample Matrix: water
Date Received: 11/05/2004 **Time:** 13:55
Date Sampled: 11/02/2004 **Time:** 12:58

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷	Prec.	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		11/11/04	8260b(5030/5035)	---	---	---	---	---
Benzene	87	µg/L	1	<1	11/11/04	8260b	---	13.1	92.3	91	93.1
Ethylbenzene	<1	µg/L	1	<1	11/11/04	8260b	---	0.7	111.8	108.9	107.8
m,p-Xylenes	<2	µg/L	2	<2	11/11/04	8260b	---	1	108.1	105.4	106.5
o-Xylene	<1	µg/L	1	<1	11/11/04	8260b	J	0	114.6	111	112
Toluene	<1	µg/L	1	<1	11/11/04	8260b	---	12.9	98.2	95.6	111.2

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

Respectfully Submitted,

Dale Wagner

Dale Wagner

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

Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2001-11005
Sample Name: PAALRHPS110204MW11

Report#/Lab ID#: 161456
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	111	74-124	---
Toluene-d8	8260b	107	89-115	---

Data Qualifiers: D= Surrogates outside advisory recovery limits.

Report #/Lab ID#: 161456 Matrix: water
Client: Environmental Plus, Inc.
Project ID: 2001-11005
Sample Name: PAALRHPS110204MW11

Attn: Iain Olness

Sample Temperature/Condition: <=6°C

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

Sample Bottles & Preservation:

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

J flag Discussion:

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

Comments pertaining to Data Qualifiers and QC data:

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

Notes:

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

Report#/Lab ID#: 161457 **Report Date:** 11/23/04
Project ID: 2001-11005
Sample Name: PAALRHPS110204MW12
Sample Matrix: water
Date Received: 11/05/2004 **Time:** 13:55
Date Sampled: 11/02/2004 **Time:** 13:31

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	32.2	µg/L	1	<1	11/12/04	8260b	---	13.1	92.3	91	93.1
Ethylbenzene	2.53	µg/L	1	<1	11/12/04	8260b	---	0.7	111.8	108.9	107.8
m,p-Xylenes	<2	µg/L	2	<2	11/12/04	8260b	---	1	108.1	105.4	106.5
o-Xylene	<1	µg/L	1	<1	11/12/04	8260b	J	0	114.6	111	112
Toluene	<1	µg/L	1	<1	11/12/04	8260b	---	12.9	98.2	95.6	111.2

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Respectfully Submitted,

Dale Wagner

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Client: Environmental Plus, Inc.
Attn: Iain Olness

Project ID: 2001-11005

Sample Name: PAALRHPS110204MW12

Report#/Lab ID#: 161457
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	121	74-124	---
Toluene-d8	8260b	99.4	89-115	---

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

Report #/Lab ID#: 161457 Matrix: water

Client: Environmental Plus, Inc. Attn: Iain Olness

Project ID: 2001-11005

Sample Name: PAALRHPS110204MW12

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

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

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

Comments pertaining to Data Qualifiers and QC data:

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

Notes:



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

Report#/Lab ID#: 161458 **Report Date:** 11/23/04
Project ID: 2001-11005
Sample Name: PAALRHPS110204MW14
Sample Matrix: water
Date Received: 11/05/2004 **Time:** 13:55
Date Sampled: 11/02/2004 **Time:** 12:01

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA

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	10.6	µg/L	1	<1	11/11/04	8260b	---	13.1	92.3	91	93.1
Ethylbenzene	<1	µg/L	1	<1	11/11/04	8260b	---	0.7	111.8	108.9	107.8
m,p-Xylenes	6.18	µg/L	2	<2	11/11/04	8260b	---	1	108.1	105.4	106.5
o-Xylene	5.37	µg/L	1	<1	11/11/04	8260b	---	0	114.6	111	112
Toluene	<1	µg/L	1	<1	11/11/04	8260b	---	12.9	98.2	95.6	111.2

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Respectfully Submitted,

Date Wagner

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

Client: Environmental Plus, Inc. Attn: Iain Olness	Project ID: 2001-11005 Sample Name: PAALRHPS110204MW14	Report#/Lab ID#: 161458 Sample Matrix: water
---	---	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	117	74-124	---
Toluene-d8	8260b	104	89-115	---

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

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	1.36	µg/L	1	<1	11/11/04	8260b	---	13.1	92.3	91	93.1
Ethylbenzene	<1	µg/L	1	<1	11/11/04	8260b	---	0.7	111.8	108.9	107.8
m,p-Xylenes	11.6	µg/L	2	<2	11/11/04	8260b	---	1	108.1	105.4	106.5
o-Xylene	9.51	µg/L	1	<1	11/11/04	8260b	---	0	114.6	111	112
Toluene	<1	µg/L	1	<1	11/11/04	8260b	---	12.9	98.2	95.6	111.2

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

Respectfully Submitted,

DW

Date Wagner

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

2024 MONROVIA DRIVE, AUSTIN, TX 78744
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

QUILYS
INC.

Client: Environmental Plus, Inc. Attn: Iain Olness	Project ID: 2001-11005 Sample Name: PAALRHPS110204MW9	Report#/Lab ID#: 161459 Sample Matrix: water
---	--	---

REPORT OF SURROGATE RECOVERY

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

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

Analysys Inc.

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

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

Chain of Custody Form

Company Name Environmental Plus, Inc.		Bill To		ANALYSIS REQUEST																			
EPI Project Manager Iain Olness				PRESERV.		SAMPLING				TPH 8015M		CHLORIDES (C)		SULFATES (SO ₄)		PH		TCLP		OTHER >>>		PAH	
Mailing Address P.O. BOX 1558				ACID/BASE		OTHER				BTX 8021B													
City, State, Zip Eunice New Mexico 88231				SLUDGE		OTHER																	
EPI Phone# / Fax# 505-394-3481 / 505-394-2601				CRUDE OIL																			
Client Company Plains All American				SOIL																			
Facility Name Livingston Ridge to Hugh - P. Sims				WASTEWATER																			
Project Reference 2001-11005				GROUND WATER																			
EPI Sampler Name Manuel Gonzales				# CONTAINERS																			
LAB I.D.		SAMPLE I.D.		(G) RAB OR (C) OMP.																			
161450	1	PAALRHPS110204MW6	G	2	X																		
161451	2	PAALRHPS110204MW4	G	5	X																		
161452	3	PAALRHPS110204MW5	G	3	X																		
161453	4	PAALRHPS110204TMW1	G	3	X																		
161454	5	PAALRHPS110204MW13	G	3	X																		
161455	6	PAALRHPS110204MW1	G	3	X																		
161456	7	PAALRHPS110204MW11	G	3	X																		
161457	8	PAALRHPS110204MW12	G	3	X																		
161458	9	PAALRHPS110204MW14	G	3	X																		
161459	10	PAALRHPS110204MW9	G	3	X																		

Sample Requisitioned: *Manuel Gonzales*

Relinquished by:

Delivered by:

Received By: *Manuel Gonzales*

Received By: (lab staff) *Manuel Gonzales*

Sample Cool & Intact: Yes ☒ No ☐

Checked By: *Manuel Gonzales*

E-mail results to: iolness@hotmail.com

REMARKS:

מחבר: ש. ח. ז. ז.

Bill to (if different):

Company Name Plains
Address _____

City _____ State _____ Zip _____

ATTN: _____

Phone _____ Fax _____

Manuel Gervais

100

[illegible]

T.3.8c

Sample Relinquished By			Sample Received By		
Name	Affiliation	Date	Name	Affiliation	Date
Paula Jones	EPI	11/9/04	Dr. Jeffrey	ASF	11/10/04
					1000

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

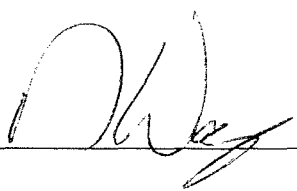
Sample Analysis Case Narrative

Client: Environmental Plus, Inc. Project ID: 2001-11005

Attn: Iain Olness

for Sample #'s: 161450 thru 161459

Analyzed by AnalySys, Inc.

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

Case Narrative:

The precisions of several semi volatile organic compounds for the analytical batch that contained sample # 161451 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 # 161451 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 # 161451. When viewed within the context of the passing LCS data, this deviation in spike recovery should have minimal impact on data usability.

The recovery of the surrogate Terphenyl-d14 for sample #'s 161451 was below normal laboratory acceptance criteria. This sample was re-extracted and analyzed with similar surrogate recoveries. This is indicative of a potential for matrix interference (MI) with this surrogate in this sample.

Martin, Ed

From: Martin, Ed
Sent: Tuesday, February 17, 2004 8:22 AM
To: 'Robert Eidson'
Subject: RE: Soil Treatment Activities - Livingston Ridge to Hugh P. Sims release site.

Pending receipt of an abatement plan proposal, NMOCD approves the soil tilling on the referenced site. This action is being taken to render the soil less hazardous to human health and the environment during the waiting time required for approval of a formal abatement plan.

-----Original Message-----

From: Robert Eidson [mailto:reidson@etgi.cc]
Sent: Tuesday, January 27, 2004 11:08 AM
To: Ed Martin
Subject: Soil Treatment Activities - Livingston Ridge to Hugh P. Sims release site.

Mr. Martin:

Site location data for the above referenced site:

NE1/4, SE1/4 of S 3, T21S, R37E,

Release Number: 2001-11005,

Lea County, NM.

The Stage 1 and 2 Abatement Plan covering the above referenced site was submitted within the last two months. There is a soil treatment cell on-site. We were tilling soil in the cell until an environmental consultant representing the landowner informed us that we couldn't treat any soil until we had an approved Stage 1 and/or 2 A.P. on file at the NMOCD.

We are scheduling a large tractor to be brought out here to conduct soil tilling at all of our sites with treatment cells. I am asking permission to include the above referenced site in this schedule. Considering the tilling frequency schedule we have been instructed to follow, I would like to hit all of the sites at this time to turn a significant volume of soil at each site.

Sincerely,
Robert B. Eidson
Geologist / Senior Project Manager
ETGI
Hobbs, New Mexico
505-397-4882 office
505-397-4701 fax
505-631-2974 cell

2/17/2004

Martin, Ed

From: Martin, Ed
Sent: Wednesday, January 28, 2004 1:39 PM
To: Williams, Chris; Johnson, Larry; Sheeley, Paul
Subject: Link Energy Site - Livingston Ridge to Hugh P. Sims

1R-398

Do any of you have a copy of a Stage 1/2 Abatement Plan for this site? I'm looking for the one prepared and submitted by ETGI; not the one prepared and submitted by EPI, dated 11/6/2001. It is also known as Site # 2001-11005.

Ed Martin

New Mexico Oil Conservation Division
Environmental Bureau
1220 S. St. Francis
Santa Fe, NM 87505
Phone: 505-476-3492
Fax: 505-476-3471

ANNUAL MONITORING REPORT

note

**EOTT ENERGY, LLC.
LIVINGSTON RIDGE TO HUGH P. SIMS
LEA COUNTY, NEW MEXICO
NE ¼ SE ¼ SECTION 03, TOWNSHIP 21 SOUTH, RANGE 37 EAST**

APR 15 2003

5/8/03

RECEIVED

APR 27 2003

Environmental Bureau
Oil Conservation Division

PREPARED FOR:

**EOTT ENERGY, LLC.
5805 EAST HIGHWAY 80
MIDLAND, TEXAS 79701**

1R-398

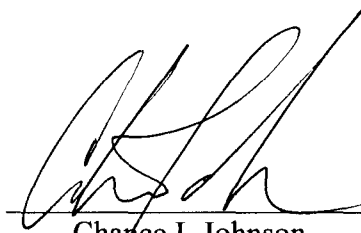
PREPARED BY:

**ENVIRONMENTAL TECHNOLOGY GROUP, INC.
2540 W. MARLARD
HOBBS, NEW MEXICO 88240**

April 2003



Robert B Eidson
Geologist / Senior Project Manager



Chance I. Johnson
New Mexico Regional Manager

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INTRODUCTION

Environmental Technology Group, Inc., on behalf of EOTT Energy Corp., prepared this Annual Monitoring Report in compliance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an Annual Monitoring Report by April 1 of each year. The report presents the results of the quarterly groundwater monitoring events only. For reference, the Site Location Map is provided as Figure 1.

Groundwater monitoring was conducted during two quarterly events in calendar year 2002 to assess the levels and extent of dissolved phase and phase-separated petroleum hydrocarbon (PSH) constituents. The groundwater monitoring events consisted of measuring static water levels in the monitor wells, checking for the presence of PSH, and purging and sampling of each well exhibiting sufficient recharge. Monitor wells containing measurable levels of PSH were not sampled.

FIELD ACTIVITIES

The site monitor wells were gauged and sampled on September 30 and November 6, 2002. Additionally the monitor wells were gauged on March 18, 2003 to verify gauging data compiled during the fourth quarterly monitoring event of 2002. It was determined that the gauging data acquired on March 18, 2003 depicted a more accurate site groundwater gradient. During each sampling event the monitor wells designated to be sampled were purged of approximately three well volumes of water or until the wells were dry using a PVC bailer or electrical Grundfos Pump. Groundwater was allowed to recharge and samples were obtained using disposable Teflon samplers. Water samples were collected in clean glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a polystyrene tank and disposed of by Pate Trucking, Hobbs, New Mexico or Vista Trucking of Eunice, New Mexico utilizing a licensed disposal facility (NMOCD AO SWD-730).

GROUNDWATER GRADIENT

Locations of the monitor wells and the inferred groundwater gradient, as measured on March 18, 2003 are depicted on Figure 2, the Groundwater Gradient Map. The groundwater elevation data is provided as Table 1. Groundwater elevation contours generated from the additional gauging event of March 18, 2003 water level measurements indicate a general gradient of approximately 0.003 ft/ft to the southeast as measured between groundwater monitor wells MW-7 and MW-12. The depth to groundwater as measured from the top of the well casing, ranged between 29.20 to 42.74 feet in the shallow alluvial aquifer. Data obtained from temporary monitor well TW-1 was not utilized in the calculation of depth to groundwater as referenced in this report.

A measurable thickness of PSH was detected in monitor wells MW-1, MW-5 and temporary monitor well TW-1 during this annual reporting period. Maximum thickness of 5.07 foot in monitor well MW-1, 0.46 foot in monitor well MW-5 and 5.06 feet in temporary monitor well TW-1, were recorded and are shown on Table 1.

A measurable thickness of PSH was detected in monitor wells MW-1, MW-5 and temporary monitor well TW-1 during this annual reporting period. Maximum thickness of 5.07 foot in monitor well MW-1, 0.46 foot in monitor well MW-5 and 5.06 feet in temporary monitor well TW-1, were recorded and are shown on Table 1.

LABORATORY RESULTS

Groundwater samples obtained during the sampling events were delivered to AnalySys Inc., Austin, Texas and Environmental Lab of Texas, Odessa, Texas for determination of Benzene, Toluene, Ethylbenzene and Xylene (BTEX) constituent concentrations by EPA Method SW846-8260b and EPA Method SW846-8021B. The groundwater chemistry data is provided as Table 2 and copies of the Laboratory Reports are provided as Appendix A. Groundwater samples which exceeded NMOCD regulatory standards for benzene and BTEX concentrations are indicated on Figure 3, the NMOCD Site Map.

Laboratory results for groundwater samples collected during the calendar year 2002 indicated that benzene and BTEX concentrations were below NMOCD regulatory standards in monitor wells MW-2, MW-3, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-14 and MW-15. The benzene concentrations for monitor well MW-13 were above NMOCD regulatory standard while BTEX concentrations were below NMOCD regulatory standards. Benzene and BTEX concentrations in monitor wells MW-4 and MW-12 exceed the NMOCD regulatory standards.

SUMMARY

This report presents the results of monitoring activities for the annual reporting period of calendar year 2002. A measurable thickness of PSH was detected in monitor wells MW-1, MW-5 and temporary monitor well TW-1 during this annual reporting period. Maximum thickness of 5.07 feet in monitor well MW-1, 0.46 foot in monitor well MW-5 and 5.06 feet in temporary monitor well TW-1 were recorded. Approximately 39 gallons of PSH was manually recovered during this reporting period. Recovered PSH was reintroduced into the EOTT transportation system at the Lea Station Facility, Monument, New Mexico.

Groundwater elevation contours generated from the additional gauging event of March 18, 2003 water level measurements indicate a general gradient of approximately 0.003 ft/ft to the southeast as measured between groundwater monitor wells MW-7 and MW-12.

Laboratory results for groundwater samples collected during the calendar year 2002 indicated that benzene and BTEX concentrations were below NMOCD regulatory standards in monitor wells MW-2, MW-3, MW-6, MW-7, MW-8, MW-9, MW-10, MW-11, MW-14 and MW-15. The benzene concentrations for monitor Well MW-13 were above NMOCD regulatory standard while BTEX concentrations were below NMOCD regulatory standards. Benzene and BTEX concentrations in monitor wells MW-4 and MW-12 exceed the NMOCD regulatory standards.

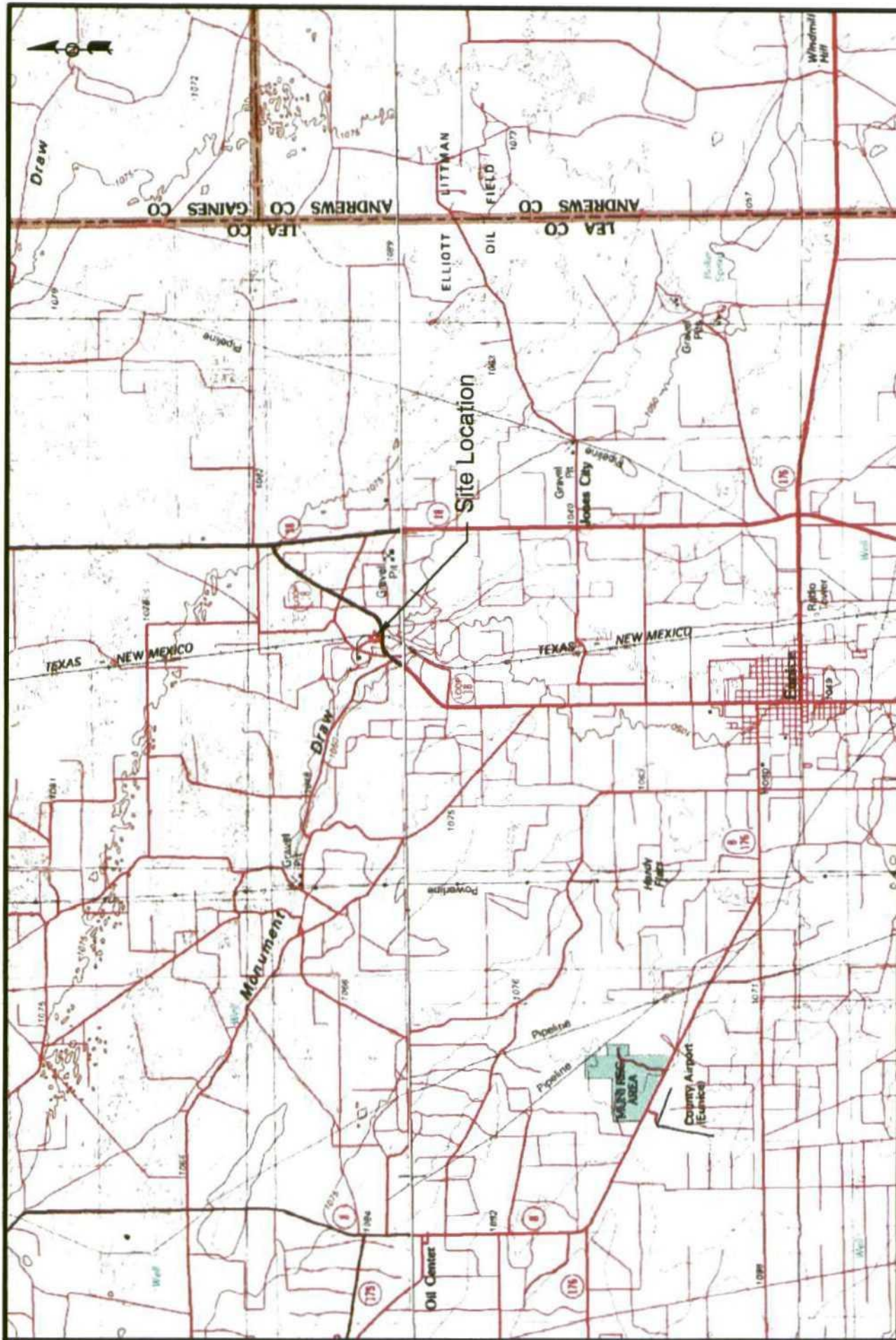
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New Mexico Oil Conservation Division-District 1
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Midland, Texas 79703
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2540 West Marland
Hobbs, New Mexico 88240

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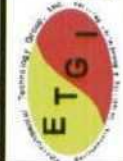

Quality Control Review

FIGURES



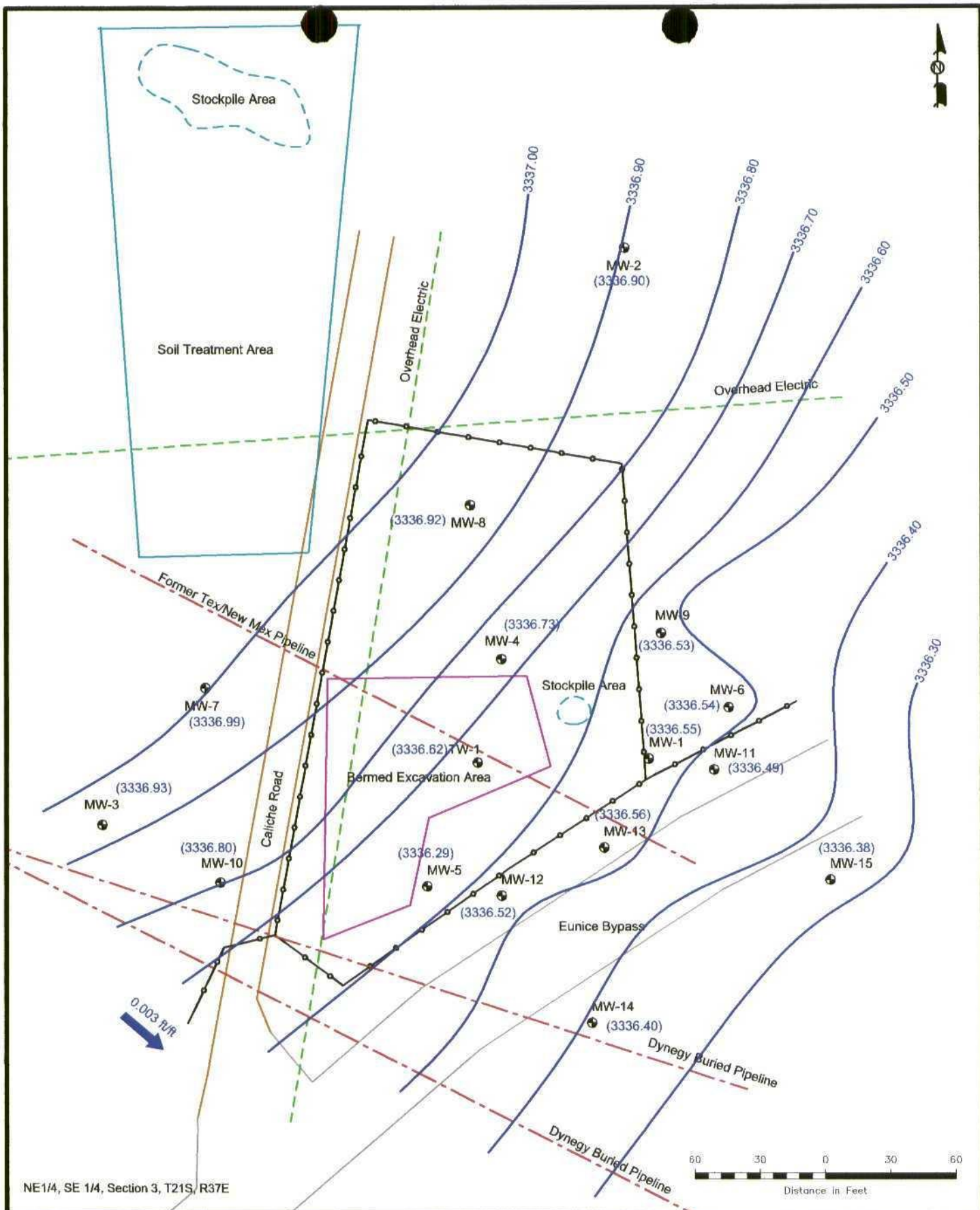
NE 1/4, SE 1/4, Section 3, T21S, R37E

Figure 1
Site Location Map
EOTT Energy Pipeline, LP
Livingston Ridge to Hugh P. Simms
Lea County, NM



Environmental Technology
Group, Inc.

Scale: 1" = 8000'
Map By: JLS
Created By: RB
March 22, 2003
ETGI Project #: E02008



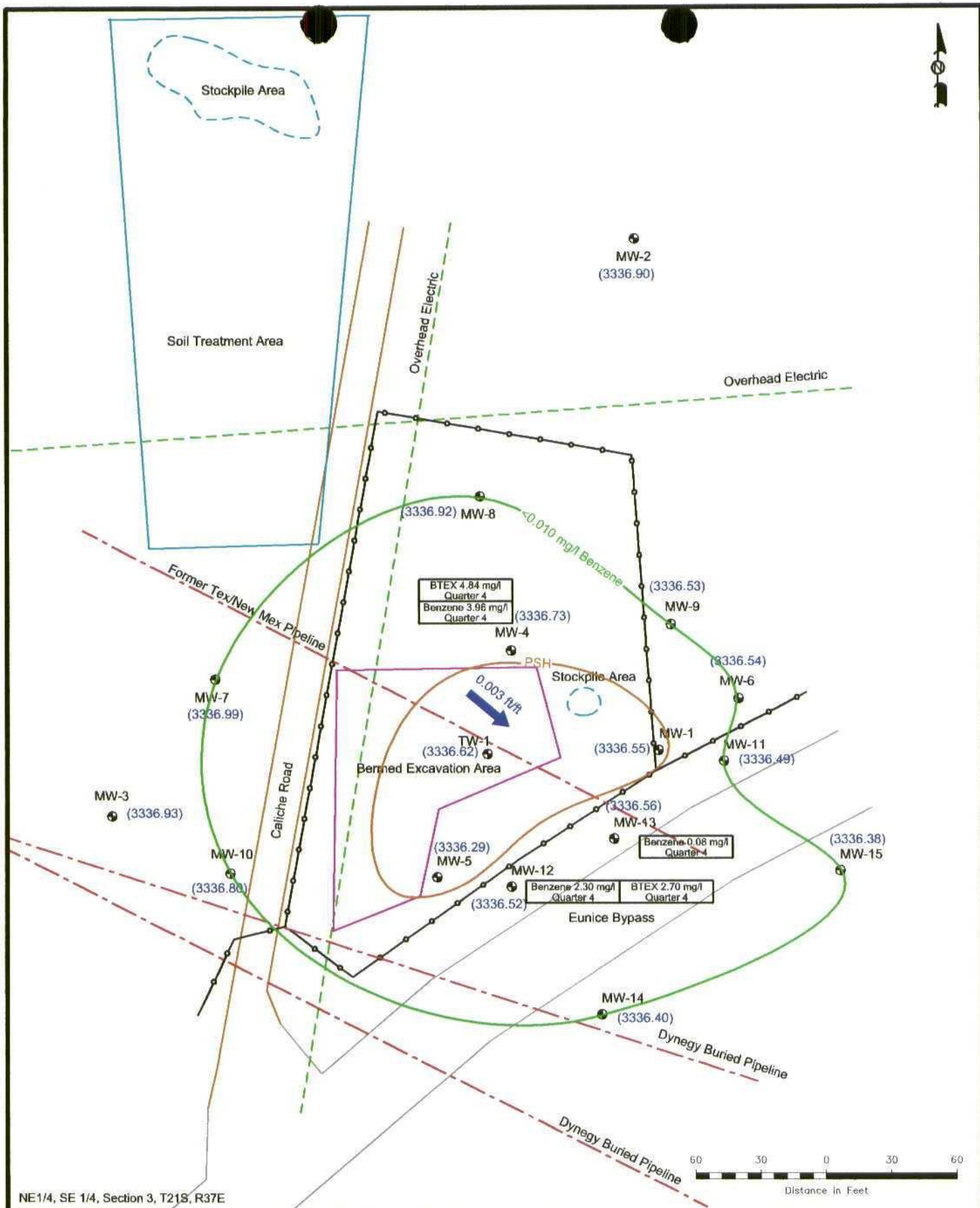
Legend
 ● Monitor Well Location
 --- Fence
 → 0.003 ft/ft Groundwater Gradient Direction and Magnitude

Figure 2
 Site Groundwater Gradient Map
 3/18/03
 EOTT Energy Pipeline, LP
 Livingston Ridge to Hugh P. Simms
 Lea County, NM



Environmental Technology
 Group, Inc.

Scale: 1" = 60'	Prep By: JDJ	Checked By: RE
March 22, 2003	ETGI Project #: E02085	



Legend

- Monitor Well Location
- Fence
- Groundwater Gradient Direction and Magnitude
- Inferred Extent of PSH

Figure 3
NMOCD Site Map
3/18/03

EOTT Energy Pipeline, LP
Livingston Ridge to Hugh P. Simms
Lea County, NM



Environmental Technology Group, Inc.

Scale: 1" = 60'	Prep By: JDI	Checked By: RE
March 22, 2003	ETGI Project #: E02005	

TABLES

TABLE 1

GROUNDWATER ELEVATION

EOTT ENERGY, LLC
 LIVINGSTON RIDGE TO HUGH P. SIMS
 LEA COUNTY, NEW MEXICO
 ETGI PROJECT # EO 2096

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 1	08/15/02	3,374.23	37.24	42.29	5.05	3,336.23
	08/23/02	3,374.23	37.52	42.24	4.72	3,336.00
	08/27/02	3,374.23	37.58	42.21	4.63	3,335.96
	08/29/02	3,374.23	37.68	41.86	4.18	3,335.92
	09/04/02	3,374.23	37.81	42.21	4.40	3,335.76
	09/30/02	3,374.23	38.28	42.30	4.02	3,335.35
	10/02/02	3,374.23	38.20	42.25	4.05	3,335.42
	10/03/02	3,374.23	37.24	42.31	5.07	3,336.23
	10/08/02	3,374.23	38.40	42.40	4.00	3,335.23
	10/15/02	3,374.23	38.49	42.32	3.83	3,335.17
	11/06/02	3,374.23	37.03	40.80	3.77	3,336.63
	12/27/02	3,374.23	36.64	40.43	3.79	3,337.02
	03/18/03	3,374.23	37.13	40.83	3.70	3,336.55
MW - 2	08/15/02	3,378.27	ND	41.67	0.00	3,336.60
	09/30/02	3,378.27	ND	42.46	0.00	3,335.81
	11/06/02	3,378.27	ND	41.88	0.00	3,336.39
	03/18/03	3,378.27	ND	41.37	0.00	3,336.90
MW - 3	08/15/02	3,367.36	ND	30.70	0.00	3,336.66
	09/30/02	3,367.36	ND	31.65	0.00	3,335.71
	11/06/02	3,367.36	ND	29.20	0.00	3,338.16
	03/18/03	3,367.36	ND	30.43	0.00	3,336.93
MW - 4	08/15/02	3,372.73	ND	36.22	0.00	3,336.51
	09/30/02	3,372.73	ND	37.13	0.00	3,335.60
	11/06/02	3,372.73	ND	35.72	0.00	3,337.01
	03/18/03	3,372.73	36.00	36.00	0.00	3,336.73
MW - 5	08/15/02	3,370.92	34.52	34.85	0.33	3,336.35
	08/23/02	3,370.92	34.77	35.20	0.43	3,336.09
	08/27/02	3,370.92	24.84	35.19	0.35	3,336.03
	08/29/02	3,370.92	34.98	35.20	0.30	3,335.98
	09/04/02	3,370.92	35.03	35.05	0.02	3,335.89
	09/30/02	3,370.92	35.48	35.88	0.40	3,335.38
	10/02/02	3,370.92	35.39	35.85	0.46	3,335.46
	10/03/02	3,370.92	34.51	34.86	0.35	3,336.36
	10/08/02	3,370.92	35.57	36.02	0.45	3,335.28
	10/15/02	3,370.92	35.65	35.97	0.32	3,335.22
	11/06/02	3,370.92	33.72	33.80	0.08	3,337.19
	12/27/02	3,370.92	33.79	33.92	0.13	3,337.11
	03/18/03	3,370.92	34.63	34.63	0.00	3,336.29

TABLE 1

GROUNDWATER ELEVATION

EOTT ENERGY, LLC
 LIVINGSTON RIDGE TO HUGH P. SIMS
 LEA COUNTY, NEW MEXICO
 ETGI PROJECT # EO 2096

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 6	08/15/02	3,377.02	ND	40.82	0.00	3,336.20
	09/30/02	3,377.02	ND	41.69	0.00	3,335.33
	11/06/02	3,377.02	ND	40.45	0.00	3,336.57
MW - 7	03/18/03	3,377.02	ND	40.48	0.00	3,336.54
	08/15/02	3,369.47	ND	32.73	0.00	3,336.74
	09/30/02	3,369.47	ND	33.65	0.00	3,335.82
MW - 8	11/06/02	3,369.47	ND	31.70	0.00	3,337.77
	03/18/03	3,369.47	ND	32.48	0.00	3,336.99
	08/15/02	3,373.77	ND	37.15	0.00	3,336.62
MW - 9	09/30/02	3,373.77	ND	37.95	0.00	3,335.82
	11/06/02	3,373.77	ND	36.70	0.00	3,337.07
	03/18/03	3,373.77	ND	36.85	0.00	3,336.92
MW - 10	08/15/02	3,375.92	ND	39.60	0.00	3,336.32
	09/30/02	3,375.92	ND	40.46	0.00	3,335.46
	11/06/02	3,375.92	ND	39.30	0.00	3,336.62
MW - 11	03/18/03	3,375.92	ND	39.39	0.00	3,336.53
	08/15/02	3,370.17	ND	33.66	0.00	3,336.51
	09/30/02	3,370.17	ND	34.59	0.00	3,335.58
MW - 12	11/06/02	3,370.17	ND	32.40	0.00	3,337.77
	03/18/03	3,370.17	ND	33.37	0.00	3,336.80
	10/22/02	3,373.96	ND	38.87	0.00	3,335.09
MW - 13	11/06/02	3,373.96	ND	37.42	0.00	3,336.54
	03/18/03	3,373.96	ND	37.47	0.00	3,336.49
	10/22/02	3,372.41	ND	33.77	0.00	3,338.64
MW - 14	11/06/02	3,372.41	ND	31.84	0.00	3,340.57
	03/18/03	3,372.41	ND	35.89	0.00	3,336.52
	10/22/02	3,368.91	ND	31.30	0.00	3,337.61
MW - 15	11/06/02	3,368.91	ND	35.60	0.00	3,333.31
	03/18/03	3,368.91	ND	32.35	0.00	3,336.56
	10/22/02	3,371.54	ND	36.56	0.00	3,334.98
MW - 16	11/06/02	3,371.54	ND	34.68	0.00	3,336.86
	03/18/03	3,371.54	ND	35.14	0.00	3,336.40
	10/22/02	3,377.64	ND	42.74	0.00	3,334.90
MW - 17	11/06/02	3,377.64	ND	41.32	0.00	3,336.32
	03/18/03	3,377.64	ND	41.26	0.00	3,336.38

TABLE 1
GROUNDWATER ELEVATION
EOTT ENERGY, LLC
LIVINGSTON RIDGE TO HUGH P. SIMS
LEA COUNTY, NEW MEXICO
ETGI PROJECT # EO 2096

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
TW-1	08/15/02	3,357.33	20.18	25.22	5.04	3,336.39
	08/23/02	3,357.33	20.53	25.04	4.51	3,336.12
	08/27/02	3,357.33	20.61	24.97	4.36	3,336.07
	08/29/02	3,357.33	20.68	24.79	4.11	3,336.03
	09/04/02	3,357.33	20.86	24.87	4.01	3,335.87
	10/02/02	3,357.33	21.28	24.95	3.67	3,335.50
	10/03/02	3,357.33	20.18	25.24	5.06	3,336.39
	10/08/02	3,357.33	21.49	25.02	3.53	3,335.31
	10/15/02	3,357.33	20.24	25.23	4.99	3,336.34
	11/06/02	3,357.33	*	*	*	*
	12/27/02	3,357.33	19.57	23.72	4.15	3,337.14
	03/18/03	3,357.33	20.09	24.24	4.15	3,336.62

Elevations based on the North American Vertical Datum of 1929.

Note: TOC Elevation of MW-7 Corrected 10-15-02, RBE.

Note: * Denotes that TW-1 was not accessible for gauging due to mud and water in the excavation.

TABLE 2

GROUNDWATER CHEMISTRY

EOTT ENERGY, LLC
 LIVINGSTON RIDGE TO HUGH P. SIMS
 LEA COUNTY, NEW MEXICO
 ETGI PROJECT # EO 2096

All concentrations are in mg/L

SAMPLE LOCATION	SAMPLE DATE	Methods: SW 846-8021B, 5030, 8260b			
		BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES
MW - 2	09/30/02	<0.001	<0.001	<0.001	<0.001
	11/06/02	<0.001	<0.001	<0.001	<0.001
MW - 3	09/30/02	<0.001	<0.001	<0.001	<0.001
	11/06/02	<0.001	<0.001	<0.001	<0.001
MW - 4	09/30/02	2.430	0.740	0.466	1.230
	11/06/02	3.960	0.015	0.174	0.688
MW - 6	09/30/02	<0.001	<0.001	<0.001	<0.001
	11/06/02	<0.001	<0.001	<0.001	<0.001
MW - 7	09/30/02	<0.001	<0.001	<0.001	<0.001
	11/06/02	<0.001	<0.001	<0.001	<0.001
MW - 8	09/30/02	<0.001	<0.001	<0.001	<0.001
	11/06/02	<0.001	<0.001	<0.001	<0.001
MW - 9	09/30/02	<0.001	<0.001	<0.001	<0.001
	11/06/02	<0.001	<0.001	<0.001	<0.001
MW - 10	09/30/02	<0.001	<0.001	<0.001	<0.001
	11/06/02	<0.001	<0.001	<0.001	<0.001
MW - 11	11/06/02	<0.001	<0.001	<0.001	<0.001
MW - 12	11/06/02	2.300	0.012	0.005	0.384
MW - 13	11/06/02	0.080	<0.001	<0.001	0.003
MW - 14	11/06/02	<0.001	<0.001	<0.001	<0.001
MW - 15	11/06/02	<0.001	<0.001	<0.001	<0.001

APPENDICES

Appendix A
Laboratory Reports

FILE

ANALYTICAL REPORT

Prepared for:

KEN DUTTON

Environmental Technology Group, Inc.

2540 W. MARLAND

HOBBS, NM 88240

Project: Livingston Ridge

PO#:

Order#: G0204689

Report Date: 10/03/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240
505-397-4701

Order#: G0204689
Project: EO 2096
Project Name: Livingston Ridge
Location: Eunice, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0204689-01	MW 2	WATER	9/30/02	10/2/02 10:40	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: 0 C		
	8021B/5030 BTEX					
	Total Dissolved Solids (TDS)					
0204689-02	MW 3	WATER	9/30/02	10/2/02 10:40	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: 0 C		
	8021B/5030 BTEX					
	Total Dissolved Solids (TDS)					
0204689-03	MW 4	WATER	9/30/02	10/2/02 10:40	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: 0 C		
	8021B/5030 BTEX					
	Total Dissolved Solids (TDS)					
0204689-04	MW 5	WATER	9/30/02	10/2/02 10:40	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: 0 C		
	8021B/5030 BTEX					
	Total Dissolved Solids (TDS)					
0204689-05	MW 6	WATER	9/30/02	10/2/02 10:40	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: 0 C		
	8021B/5030 BTEX					
	Total Dissolved Solids (TDS)					
0204689-06	MW 7	WATER	9/30/02	10/2/02 10:40	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: 0 C		
	8021B/5030 BTEX					
	Total Dissolved Solids (TDS)					
0204689-07	MW 8	WATER	9/30/02	10/2/02 10:40	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: 0 C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240
505-397-4701

Order#: G0204689
Project: EO 2096
Project Name: Livingston Ridge
Location: Eunice, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

Lab ID:	Sample:	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
	8021B/5030 BTEX Total Dissolved Solids (TDS)					
0204689-08	MW 10	WATER	9/30/02	10/2/02 10:40	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: 0 C		
	8021B/5030 BTEX Total Dissolved Solids (TDS)					
0204689-09	EB 1	WATER	9/30/02 14:00	10/2/02 10:40	See COC	See COC
	<u>Lab Testing:</u>	Rejected: No		Temp: 0 C		
	8021B/5030 BTEX					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBBS, NM 88240

Order#: G0204689
Project: EO 2096
Project Name: Livingston Ridge
Location: Eunice, NM

Lab ID: 0204689-01
Sample ID: MW 2

3021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0003277-02		10/2/02 15:14	1	1	CK	3021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Ethylbenzene	<0.001	0.001
Toluene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	90%	80	120
Bromofluorobenzene	83%	80	120

Lab ID: 0204689-02
Sample ID: MW 3

3021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0003277-02		10/2/02 15:36	1	1	CK	3021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Ethylbenzene	<0.001	0.001
Toluene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	90%	80	120
Bromofluorobenzene	85%	80	120

MJ = diluted out. ND = Not Detectable. RL = Reporting Limit

Page 4 of 5

ENVIRONMENTAL LAB OF TEXAS, LTD.

2500 West 4th East, Mesquite, NM 88048 Phone 505-663-1800

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
1540 W. MARLAND
HOBBS, NM 88240

Order#: G0204689
Project: EO 1096
Project Name: Livingston Ridge
Location: Eunice, NM

Lab ID: 0204689-03
Sample ID: MW 4

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0003277-02		10/2/02	1	25	CK	8021B
		16:23				

Parameter	Result mg/L	RL
Benzene	2.43	0.025
Ethylbenzene	0.466	0.025
Toluene	0.740	0.025
p/m-Xylene	0.946	0.025
o-Xylene	0.284	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	104%	80	120
Bromofluorobenzene	91%	80	120

Lab ID: 0204689-04
Sample ID: MW 6

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0003277-02		10/2/02	1	1	CK	8021B
		16:40				

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Ethylbenzene	<0.001	0.001
Toluene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	83%	80	120
Bromofluorobenzene	84%	80	120

DL = Diluted out CA = not applicable RL = Reporting Limit

Page 2 of 5

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0204689
Project: EO 2096
Project Name: Livingston Ridge
Location: Eunice, NM

Lab ID: 0204689-05
Sample ID: MW 7

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0003277-02		10/2/02	1	1	CK	8021B
		16:57				

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Ethylbenzene	<0.001	0.001
Toluene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	90%	80	120
Bromofluorobenzene	94%	80	120

Lab ID: 0204689-06
Sample ID: MW 3

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0003277-02		10/3/02	1	1	CK	8021B
		12:46				

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Ethylbenzene	<0.001	0.001
Toluene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	80%	80	120
Bromofluorobenzene	81%	80	120

DL = Diluted out NA = Not Applicable RL = Reporting Limit

Page 2 of 5

ENVIRONMENTAL LAB OF TEXAS, LTD.

1600 West 10th East, Mesquite, NM 88048 Phone 505-653-6800

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBBS, NM 88240

Order#: G0204689
Project: EO 2096
Project Name: Livingston Ridge
Location: Eunice, NM

Lab ID: 0204689-07
Sample ID: MW 9

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0003277-02		10/2/02 17:32	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Ethylbenzene	<0.001	0.001
Toluene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	88%	80	120
Bromofluorobenzene	92%	80	120

Lab ID: 0204689-08
Sample ID: MW 10

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0003277-02		10/2/02 17:49	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Ethylbenzene	<0.001	0.001
Toluene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	87%	80	120
Bromofluorobenzene	81%	80	120

RL = Reported Limit AL = Not Applicable NL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
1540 W. MARLAND
HOBBS, NM 88240

Order#: G0204689
Project: EO 2096
Project Name: Livingston Ridge
Location: Eunice, NM

Lab ID: 0204689-09
Sample ID: EB 1

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0003277-02		10/2/02 18:06	1	1	CK	8021B

Parameter	Result mg/L	RL
Benzene	<0.001	0.001
Ethylbenzene	<0.001	0.001
Toluene	<0.001	0.001
p/m-Xylene	<0.001	0.001
o-Xylene	<0.001	0.001

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	92%	80	120
Bromofluorobenzene	95%	80	120

Approval: Raland K. Tuttle 10-03-02
 Raland K. Tuttle, Lab Director, QA Officer Date
 Celey D. Keene, Org. Tech. Director
 Jeanne McMurrey, Inorg. Tech. Director
 Sandra Biezugbe, Lab Tech.
 Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KENDUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0204689
Project: EO 2096
Project Name: Livingston Ridge
Location: Eunice, NM

Lab ID: 0204689-01
Sample ID: MW 1

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	8960.0	mg/L	1	5.0	160.1	10/2/02	TAL

Lab ID: 0204689-02
Sample ID: MW 3

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	1750.0	mg/L	1	5.0	160.1	10/2/02	TAL

Lab ID: 0204689-03
Sample ID: MW 4

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	1760.0	mg/L	1	5.0	160.1	10/2/02	TAL

Lab ID: 0204689-04
Sample ID: MW 6

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	2880.0	mg/L	1	5.0	160.1	10/2/02	TAL

Lab ID: 0204689-05
Sample ID: MW 7

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	1320.0	mg/L	1	5.0	160.1	10/2/02	TAL

Lab ID: 0204689-06
Sample ID: MW 8

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	2320.0	mg/L	1	5.0	160.1	10/2/02	TAL

L = Reporting Limit N/A = Not Applicable

Page 1 of 2

ENVIRONMENTAL LAB OF TEXAS, LTD.

2500 West Loop East, Suite 200, Dallas, TX 75265 Tel: 214-663-6600

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0204689
Project: EO 2096
Project Name: Livingston Ridge
Location: Eunice, NM

Lab ID: 0204689-07
Sample ID: MW 9

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	2890.0	mg/L	1	5.0	160.1	10/2/02	TAL

Lab ID: 0204689-08
Sample ID: MW 10

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Total Dissolved Solids (TDS)	1830.0	mg/L	1	5.0	160.1	10/2/02	TAL

Approval:

Raland K. Tuttle 10-03-02
Raland K. Tuttle, Lab Director, QA Officer Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

RL = Reporting Limit

NA = Not Applicable

Page 2 of 2

ENVIRONMENTAL LAB OF TEXAS, INC.

3600 West 34th East, Odessa, TX 79765 Ph: 915-363-4800

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0204689

BLANK		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
WATER							
Benzene-mg/L		0003277-02			<0.001		
Ethylbenzene-mg/L		0003277-02			<0.001		
Toluene-mg/L		0003277-02			<0.001		
p/m-Xylene-mg/L		0003277-02			<0.001		
o-Xylene-mg/L		0003277-02			<0.001		
MS		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
WATER							
Benzene-mg/L		0204689-01	0	0.1	0.094	94.2%	
Ethylbenzene-mg/L		0204689-01	0	0.1	0.100	100.0%	
Toluene-mg/L		0204689-01	0	0.1	0.098	98.2%	
p/m-Xylene-mg/L		0204689-01	0	0.2	0.211	105.5%	
o-Xylene-mg/L		0204689-01	0	0.1	0.100	100.0%	
MSD		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
WATER							
Benzene-mg/L		0204689-01	0	0.1	0.091	91.2%	3.2%
Ethylbenzene-mg/L		0204689-01	0	0.1	0.098	98.2%	2.2%
Toluene-mg/L		0204689-01	0	0.1	0.096	96.2%	2.1%
p/m-Xylene-mg/L		0204689-01	0	0.2	0.208	104.2%	1.4%
o-Xylene-mg/L		0204689-01	0	0.1	0.098	98.2%	2.2%
SRM		LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
WATER							
Benzene-mg/L		0003277-05		0.1	0.089	89.2%	
Ethylbenzene-mg/L		0003277-05		0.1	0.090	90.2%	
Toluene-mg/L		0003277-05		0.1	0.091	91.2%	
p/m-Xylene-mg/L		0003277-05		0.2	0.191	95.5%	
o-Xylene-mg/L		0003277-05		0.1	0.091	91.2%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0204689

<i>BLANK</i>	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0003292-01			<5.0		
<i>DUPLICATE</i>	WATER	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Total Dissolved Solids (TDS)-mg/L		0204689-01	8960		8960.0		0.0%

Environmental Lab of Texas, Inc.

12600 West 120 East
Dallas, Texas 75263
Phone: 915-563-1800
Fax: 915-563-1713

Project Manager:

Company Name:

Company Address:

City/State/Zip:

Telephone No:

Sample Signature:

Ken Dutton

E T G I

2540 W MARLAND

40885 NW 88240

(505) 397-4882

Samson Good

Fax No *(505) 357-4701*

COC 1774

CHAIN OF CUSTODY RECORD AND ANALYSIS REPORT

Project Name: *LIVINGSIDE RIDGE*

Project # *E020916*

Project Loc: *ENRIDGE, NM*

TO #

LAB # (Lab use only)
102041089

FIELD CODE

01

02

03

04

05

06

07

08

09

MW 2

MW 3

MW 4

MW 6

MW 7

MW 8

MW 9

MW 10

EB 1

Date Sampled

9/30/02

No. of Containers

3

Time Sampled

1400

Matrix

Water

Sludge

Soil

Other (Specify)

None / *LL-HDPE*

Preservative

HNO₃

HCl

H₂O₂

None

Other (Specify)

None / *LL-HDPE*

Matrix

Water

Sludge

Soil

Other (Specify)

None / *LL-HDPE*

Preservative

HNO₃

HCl

H₂O₂

None

Other (Specify)

None / *LL-HDPE*

Matrix

Water

Sludge

Soil

Other (Specify)

None / *LL-HDPE*

Preservative

HNO₃

HCl

H₂O₂

None

Other (Specify)

None / *LL-HDPE*

Matrix

Water

Sludge

Soil

Other (Specify)

None / *LL-HDPE*

Preservative

HNO₃

HCl

H₂O₂

None

Other (Specify)

None / *LL-HDPE*

Matrix

Water

Sludge

Soil

Other (Specify)

None / *LL-HDPE*

Preservative

HNO₃

HCl

H₂O₂

None

Other (Specify)

None / *LL-HDPE*

Matrix

Water

Sludge

Soil

Other (Specify)

None / *LL-HDPE*

Preservative

HNO₃

HCl

H₂O₂

None

Other (Specify)

None / *LL-HDPE*

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Water

Sludge

Soil

Other (Specify)

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Preservative

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HCl

H₂O₂

None

Other (Specify)

None / *LL-HDPE*

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Water

Sludge

Soil

Other (Specify)

None / *LL-HDPE*

Preservative

HNO₃

HCl

H₂O₂

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Other (Specify)

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HCl

H₂O₂

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Soil

Other (Specify)

None / *LL-HDPE*

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HNO₃

HCl

H₂O₂

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HCl

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Sludge

Soil

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None / *LL-HDPE*

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HCl

H₂O₂

None

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None / *LL-HDPE*

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Water

Sludge

Soil

Other (Specify)

None / *LL-HDPE*

Preservative

HNO₃

HCl

H₂O₂

None

Other (Specify)

None / *LL-HDPE*

Matrix

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Sludge

Soil

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None / *LL-HDPE*

Preservative

HNO₃

HCl

H₂O₂

None

Other (Specify)

None / *LL-HDPE*

Matrix

Water

Sludge

Soil

Other (Specify)

None / *LL-HDPE*

Preservative

HNO₃

HCl

H₂O₂

None

Other (Specify)

None / *LL-HDPE*

Matrix

Water

Sludge

Soil

Other (Specify)

None / *LL-HDPE*

Preservative

HNO₃

HCl

H₂O₂

None

Other (Specify)

None / *LL-HDPE*

Matrix

Water

Sludge

Soil

Other (Specify)

None / *LL-HDPE*

Preservative

HNO₃

HCl

H₂O₂

None

Other (Specify)

None / *LL-HDPE*

Matrix

FILE

ANALYSIS

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

Client: Environmental Tech Group

Attn: Robert Edison

Address: 2540 W. Marland

Hobbs NM 88240

Phone: 505 397-4882

FAX: 505 397-4701

Report#/Lab ID#: 136266 Report Date: 11/22/02

Project ID: LR To HP Sims EO 2096

Sample Name: MW 2

Sample Matrix: water

Date Received: 11/11/2002 Time: 08:00

Date Sampled: 11/06/2002 Time: 09:12

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		11/11/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/11/02	8260b	---	3.3	77.9	88	83.7
Ethylbenzene	<1	µg/L	1	<1	11/11/02	8260b	---	2.9	115.6	98.8	118.7
m,p-Xylenes	<1	µg/L	1	<1	11/11/02	8260b	---	3.7	117	97.2	119.6
o-Xylene	<1	µg/L	1	<1	11/11/02	8260b	---	3.1	113.4	93.5	117.6
Toluene	<1	µg/L	1	<1	11/11/02	8260b	---	4	104.5	94	113.1

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Respectfully Submitted,

Richard Laster

Richard Laster

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

Client: Environmental Tech Group	Project ID: LR To HP Sims EO 2096	Report#/Lab ID#: 136266
Attn: Robert Edison	Sample Name: MW 2	Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	94.4	80-120	---
Toluene-d8	8260b	100	88-110	---

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



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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group

Attn: Robert Edison

Address: 2540 W. Marland
Hobbs

NM 88240

Phone: 505 397-4882

FAX: 505 397-4701

Report#/Lab ID#: 136267 Report Date: 11/22/02

Project ID: LR To HP Sims EO 2096

Sample Name: MW 3

Sample Matrix: water

Date Received: 11/11/2002 Time: 08:00

Date Sampled: 11/06/2002 Time: 10:15

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		11/11/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/11/02	8260b	---	3.3	77.9	88	83.7
Ethylbenzene	<1	µg/L	1	<1	11/11/02	8260b	---	2.9	115.6	98.8	118.7
m,p-Xylenes	<1	µg/L	1	<1	11/11/02	8260b	---	3.7	117	97.2	119.6
o-Xylene	<1	µg/L	1	<1	11/11/02	8260b	---	3.1	113.4	93.5	117.6
Toluene	<1	µg/L	1	<1	11/11/02	8260b	---	4	104.5	94	113.1

QUALITY ASSURANCE DATA¹

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Tech Group
Attn: Robert Edison

Project ID: LR To HP Sims EO 2096
Sample Name: MW 3

Report#/Lab ID#: 136267
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	93.6	80-120	---
Toluene-d8	8260b	102	88-110	---

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



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Client: Environmental Tech Group

Attn: Robert Edison

Address: 2540 W. Marland

Hobbs NM 88240

Phone: 505 397-4882

FAX: 505 397-4701

Report#/Lab ID#: 136268 Report Date: 11/22/02

Project ID: LR To HP Sims EO 2096

Sample Name: MW 4

Sample Matrix: water

Date Received: 11/11/2002 Time: 08:00

Date Sampled: 11/06/2002 Time: 15:15

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		11/12/02	8260b	---	---	---	---	---
Benzene	3960	µg/L	100	<100	11/12/02	8260b	---	2.6	91.8	107.3	85.8
Ethylbenzene	174	µg/L	10	<10	11/12/02	8260b	---	5.3	104.4	114.2	101.1
m,p-Xylenes	580	µg/L	10	<10	11/12/02	8260b	---	5.4	104.7	117.4	99.5
o-Xylene	108	µg/L	10	<10	11/12/02	8260b	---	5.3	102.4	115	96.3
Toluene	15.1	µg/L	10	<10	11/12/02	8260b	---	0.6	100.2	117	95.1

QUALITY ASSURANCE DATA¹

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group	Project ID: LR To HP Sims EO 2096	Report#/Lab ID#: 136268
Attn: Robert Edison	Sample Name: MW 4	Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	103	80-120	---
Toluene-d8	8260b	103	88-110	---

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



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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
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Address: 2540 W. Marland
Hobbs NM 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 136269 Report Date: 11/22/02
Project ID: LR To HP Sims EO 2096
Sample Name: MW 6
Sample Matrix: water
Date Received: 11/11/2002 Time: 08:00
Date Sampled: 11/06/2002 Time: 10:35

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ¹
Volatile organics-8260b/BTEX	---		---		11/12/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/12/02	8260b	---	3.3	77.9	88	83.7
Ethylbenzene	<1	µg/L	1	<1	11/12/02	8260b	---	2.9	115.6	98.8	118.7
m,p-Xylenes	<1	µg/L	1	<1	11/12/02	8260b	---	3.7	117	97.2	119.6
o-Xylene	<1	µg/L	1	<1	11/12/02	8260b	---	3.1	113.4	93.5	117.6
Toluene	<1	µg/L	1	<1	11/12/02	8260b	---	4	104.5	94	113.1

QUALITY ASSURANCE DATA¹

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Richard Laster

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(512) 385-5886 • FAX (512) 385-7411

Project ID: LR To HP Sims EO 2096
Sample Name: MW 6

Report#/Lab ID#: 136269
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,1,2-Dichloroethane-d4	8260b	93.5	80-120	---
Toluene-d8	8260b	103	88-110	---

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



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Client: Environmental Tech Group
Attn: Robert Edison
Address: 2540 W. Marland
Hobbs NM 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 136270 Report Date: 11/22/02

Project ID: LR To HP Sims EO 2096

Sample Name: MW 7

Sample Matrix: water

Date Received: 11/11/2002 Time: 08:00

Date Sampled: 11/06/2002 Time: 11:01

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		11/11/02	8260b		---	---	---	---
Benzene	<1	µg/L	1	<1	11/11/02	8260b	J	3.3	77.9	88	83.7
Ethylbenzene	<1	µg/L	1	<1	11/11/02	8260b	---	2.9	115.6	98.8	118.7
m,p-Xylenes	<1	µg/L	1	<1	11/11/02	8260b	---	3.7	117	97.2	119.6
o-Xylene	<1	µg/L	1	<1	11/11/02	8260b	---	3.1	113.4	93.5	117.6
Toluene	<1	µg/L	1	<1	11/11/02	8260b	---	4	104.5	94	113.1

QUALITY ASSURANCE DATA¹

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Exceptions Report:

Report #/Lab ID#: 136270	Matrix: water	Attn: Robert Edison
Client: Environmental Tech Group		
Project ID: LR To HP Sims EO 2096		
Sample Name: MW 7		

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

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

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

Notes:



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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group Attn: Robert Edison	Project ID: LR To HP Sims EO 2096 Sample Name: MW 7	Report#/Lab ID#: 136270 Sample Matrix: water
---	--	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	99.8	80-120	---
Toluene-d8	8260b	101	88-110	---

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 Tech Group
Attn: Robert Edison
Address: 2540 W. Marland
Hobbs NM 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 136271 Report Date: 11/22/02
Project ID: LR To HP Sims EO 2096
Sample Name: MW 8
Sample Matrix: water
Date Received: 11/11/2002 Time: 08:00
Date Sampled: 11/06/2002 Time: 11:17

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---	---	---	---	11/11/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/11/02	8260b	J	3.3	77.9	88	83.7
Ethylbenzene	<1	µg/L	1	<1	11/11/02	8260b	---	2.9	115.6	98.8	118.7
m,p-Xylenes	<1	µg/L	1	<1	11/11/02	8260b	---	3.7	117	97.2	119.6
o-Xylene	<1	µg/L	1	<1	11/11/02	8260b	---	3.1	113.4	93.5	117.6
Toluene	<1	µg/L	1	<1	11/11/02	8260b	---	4	104.5	94	113.1

QUALITY ASSURANCE DATA¹

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group Attn: Robert Edison	Project ID: LR To HP Sims EO 2096 Sample Name: MW 8	Report#/Lab ID#: 136271 Sample Matrix: water
---	--	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	94.8	80-120	---
Toluene-d8	8260b	103	88-110	---

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

Exceptions Report:

Report #/Lab ID#: 136271	Matrix: water	Attn: Robert Edison
Client: Environmental Tech Group		
Project ID: LR To HP Sims EO 2096		
Sample Name: MW 8		

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

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

Notes:



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

Client: Environmental Tech Group
Attn: Robert Edison
Address: 2540 W. Marland
Hobbs NM 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 136272 Report Date: 11/22/02
Project ID: LR To HP Sims EO 2096
Sample Name: MW 9
Sample Matrix: water
Date Received: 11/11/2002 Time: 08:00
Date Sampled: 11/06/2002 Time: 11:44

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		11/11/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/11/02	8260b	J	3.3	77.9	88	83.7
Ethylbenzene	<1	µg/L	1	<1	11/11/02	8260b	---	2.9	115.6	98.8	118.7
m,p-Xylenes	<1	µg/L	1	<1	11/11/02	8260b	---	3.7	117	97.2	119.6
o-Xylene	<1	µg/L	1	<1	11/11/02	8260b	---	3.1	113.4	93.5	117.6
Toluene	<1	µg/L	1	<1	11/11/02	8260b	---	4	104.5	94	113.1

QUALITY ASSURANCE DATA¹

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Tech Group
Attn: Robert Edison

Project ID: LR To HP Sims EO 2096
Sample Name: MW 9

Report#/Lab ID#: 136272
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	91.8	80-120	---
Toluene-d8	8260b	103	88-110	---

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

Exceptions Report:

Report #/Lab ID#: 136272	Matrix: water	Attn: Robert Edison
Client: Environmental Tech Group		
Project ID: LR To HP Sims EO 2096		
Sample Name: MW 9		

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

Notes:



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Client: Environmental Tech Group

Attn: Robert Edison

Address: 2540 W. Marland

Hobbs NM 88240

Phone: 505 397-4882

FAX: 505 397-4701

Report#/Lab ID#: 136273 Report Date: 11/22/02

Project ID: LR To HP Sims EO 2096

Sample Name: MW 10

Sample Matrix: water

Date Received: 11/11/2002 Time: 08:00

Date Sampled: 11/06/2002 Time: 12:12

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		11/11/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/11/02	8260b	---	3.3	77.9	88	83.7
Ethylbenzene	<1	µg/L	1	<1	11/11/02	8260b	---	2.9	115.6	98.8	118.7
m,p-Xylenes	<1	µg/L	1	<1	11/11/02	8260b	---	3.7	117	97.2	119.6
o-Xylene	<1	µg/L	1	<1	11/11/02	8260b	---	3.1	113.4	93.5	117.6
Toluene	<1	µg/L	1	<1	11/11/02	8260b	---	4	104.5	94	113.1

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Tech Group Attn: Robert Edison	Project ID: LR To HP Sims EO 2096 Sample Name: MW 10	Report#/Lab ID#: 136273 Sample Matrix: water
---	---	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	94	80-120	---
Toluene-d8	8260b	103	88-110	---

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



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Client: Environmental Tech Group

Attn: Robert Edison

Address: 2540 W. Marland

Hobbs

NM 88240

Phone: 505 397-4882

FAX: 505 397-4701

Report#/Lab ID#: 136274 Report Date: 11/22/02

Project ID: LR To HP Sims EO 2096

Sample Name: MW 11

Sample Matrix: water

Date Received: 11/11/2002 Time: 08:00

Date Sampled: 11/06/2002 Time: 12:38

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
A/BN Extraction-PAH	---	---	---	---	11/11/02	3520	---	---	---	---	---
Metals Dig.-Hg	---	---	---	---	11/18/02	7470&245.1	---	---	---	---	---
Metals Dig.-HNO ₃	---	---	---	---	11/13/02	3015	---	---	---	---	---
Metals Dig.-HNO ₃ *filtered	---	---	---	---	11/12/02	3005A	---	---	---	---	---
Total dissolved solids	2440	mg/L	1	<1	11/13/02	160.1	---	1.1	-NA-	-NA-	-NA-
Aluminum/ICP	4.53	mg/L	0.2	<0.2	11/18/02	6010 & 200.7	---	0.73	97.47	98.4	138.4
Arsenic/ICP	<0.05	mg/L	0.05	<0.05	11/18/02	6010 & 200.7	J	0.74	102.29	97.44	99.73
Barium/ICP	0.383	mg/L	0.01	<0.01	11/18/02	6010 & 200.7	---	2.25	107.17	100.5	99.21
Beryllium/ICP	<0.004	mg/L	0.004	<0.004	11/18/02	6010 & 200.7	---	0.7	96.64	96.7	98.76
Boron/ICP	1.15	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	---	0.79	88.09	98.34	98.53
Cadmium/ICP	<0.005	mg/L	0.005	<0.005	11/18/02	6010 & 200.7	---	0.88	101.12	97.16	101.44
Calcium/ICP*filtered	263	mg/L	10	<10	11/15/02	6010 & 200.7	---	2.26	105.05	98.3	92.39
Chromium/ICP	<0.01	mg/L	0.01	<0.01	11/18/02	6010 & 200.7	---	0.38	99.32	99.15	98.64
Cobalt/ICP	<0.02	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	---	1.22	95.51	96.96	101.91
Copper/ICP	<0.02	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	---	0.45	98.82	95.44	128.15
Iron/ICP	3.18	mg/L	0.05	<0.05	11/18/02	6010 & 200.7	---	5.76	117.09	95.62	98.78
Lead/ICP	<0.02	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	---	1.57	94.14	98.76	102.21
Magnesium/ICP*filtered	73.8	mg/L	5	<5	11/15/02	6010 & 200.7	---	12.17	110.77	99.56	118.29
Manganese/ICP	0.594	mg/L	0.01	<0.01	11/18/02	6010 & 200.7	---	3.56	89.66	100.14	99.93
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	11/18/02	245.1&7470	---	3.17	93.94	100	98.67
Molybdenum/ICP	<0.02	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	J	0.79	98.26	98.67	101.76

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Robert Edison

Project ID: LR To HP Sims EO 2096
Sample Name: MW 11

Report#/Lab ID#: 136274
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Nickel/ICP	<0.02	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	J	0.66	96.82	98.64	101.97
Potassium/AA *filtered	3.84	mg/L	0.25	<0.25	11/15/02	258.1&7610	---	4.88	80.08	97.21	96.06
Selenium/ICP	0.0668	mg/L	0.05	<0.05	11/18/02	6010 & 200.7	---	0.92	103.66	97.48	99.44
Silver/GFAA	<0.002	mg/L	0.002	<0.002	11/20/02	272.2&7761	---	4.12	89.91	87.5	118
Sodium/ICP*filtered	545	mg/L	50	<50	11/15/02	6010 & 200.7	---	8.43	117.18	98.36	115.59
Strontium/ICP	6.21	mg/L	0.05	<0.05	11/18/02	6010 & 200.7	---	0.08	98.26	100.48	98.69
Tin/ICP	<0.05	mg/L	0.05	<0.05	11/18/02	6010 & 200.7	---	0.48	93.43	98.88	99.41
Vanadium/ICP	0.098	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	---	2.66	95.69	101.04	97.66
Zinc/ICP	<0.01	mg/L	0.01	<0.01	11/18/02	6010 & 200.7	J	1.07	101.61	99.29	101.88
Alkalinity, bicarbonate	120	mg/L	10	<10	11/14/02	SM2320	---	1.43	-NA-	-NA-	-NA-
Alkalinity, carbonate	<10	mg/L	10	<10	11/14/02	SM2320	---	1.43	-NA-	-NA-	-NA-
Chloride	1120	mg/L	50	<50	11/12/02	325.2&9251	---	0	108.32	103.57	95.83
Sulfate	395	mg/L	10	<10	11/12/02	375.4&9038	---	0.74	106.59	93.47	95.54
Extractable organics-PAH	---	---	---	---	11/14/02	8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	11/11/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/11/02	8260b	---	3.3	77.9	88	83.7
Ethylbenzene	<1	µg/L	1	<1	11/11/02	8260b	---	2.9	115.6	98.8	118.7
m,p-Xylenes	<1	µg/L	1	<1	11/11/02	8260b	---	3.7	117	97.2	119.6
o-Xylene	<1	µg/L	1	<1	11/11/02	8260b	---	3.1	113.4	93.5	117.6
Toluene	<1	µg/L	1	<1	11/11/02	8260b	---	4	104.5	94	113.1
Acenaphthene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	14.7	66.4	99.3	53.2
Acenaphthylene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	13	87.7	107.9	69.4
Anthracene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	0	96.4	109.6	93.5
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	J	7.1	98.6	116.6	92.6
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	J	17.2	92.5	119.7	87.9
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	20.6	87.6	117.7	82.8
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	17.1	93	116.4	87.4
Benzo[k]fluoranthene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	13.6	90.3	119.1	87.1
Chrysene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	J	2.4	103.2	115	99.8
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	5.5	93.7	113.3	88.5
Fluoranthene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	2.1	104.5	118.1	108.9
Fluorene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	17.4	78.4	95.2	62.9



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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Robert Edison

Project ID: LR To HP Sims EO 2096
Sample Name: MW 11

Report#/Lab ID#: 136274
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	18.1	94.5	103	88.9
Naphthalene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	19.7	58.8	104.2	67.1
Phenanthrene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	2.4	93.8	103.4	80.4
Pyrene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	2	101.8	106.5	95.5



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Client: Environmental Tech Group
Attn: Robert Edison

Project ID: LR To HP Sims EO 2096
Sample Name: MW 11

Report#/Lab ID#: 136274
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4 Toluene-d8	8260b	90.4	80-120	---
	8260b	103	88-110	---
2-Fluorobiphenyl Nitrobenzene-d5 Terphenyl-d14	8270c	49.5	43-116	---
	8270c	56.8	35-114	---
	8270c	59.7	33-141	---

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

Exceptions Report:

Report #/Lab ID#: 136274 Matrix: water
Client: Environmental Tech Group
Project ID: LR To HP Sims EO 2096
Sample Name: MW 11

Attn: Robert Edison

Sample Temperature/Condition <=6°C

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Arsenic/ICP	J	See J-flag discussion above.
Molybdenum/ICP	J	See J-flag discussion above.
Nickel/ICP	J	See J-flag discussion above.
Zinc/ICP	J	See J-flag discussion above.
Benzofluoranthracene	J	See J-flag discussion above.
Benzo[a]pyrene	J	See J-flag discussion above.
Chrysene	J	See J-flag discussion above.

Notes:



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Report#/Lab ID#: 136275 Report Date: 11/22/02

Project ID: LR To HP Sims EO 2096

Sample Name: MW 12

Sample Matrix: water

Date Received: 11/11/2002 Time: 08:00

Date Sampled: 11/06/2002 Time: 14:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
A/BN Extraction-PAH	---	---	---	---	11/11/02	3520	---	---	---	---	---
Metals Dig.-Hg	---	---	---	---	11/18/02	7470&245.1	---	---	---	---	---
Metals Dig.-HNO ₃	---	---	---	---	11/14/02	3015	---	---	---	---	---
Metals Dig.-HNO ₃ *filtered	---	---	---	---	11/12/02	3005A	---	---	---	---	---
Total dissolved solids	2900	mg/L	1	<1	11/13/02	160.1	---	1.1	-NA-	-NA-	-NA-
Aluminum/ICP	14.1	mg/L	0.2	<0.2	11/18/02	6010 & 200.7	---	0.73	97.47	98.4	138.4
Arsenic/ICP	<0.05	mg/L	0.05	<0.05	11/18/02	6010 & 200.7	J	0.74	102.29	97.44	99.73
Barium/ICP	0.359	mg/L	0.01	<0.01	11/18/02	6010 & 200.7	---	2.25	107.17	100.5	99.21
Beryllium/ICP	<0.004	mg/L	0.004	<0.004	11/18/02	6010 & 200.7	---	0.7	96.64	96.7	98.76
Boron/ICP	1.98	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	---	0.79	88.09	98.34	98.53
Cadmium/ICP	<0.005	mg/L	0.005	<0.005	11/18/02	6010 & 200.7	---	0.88	101.12	97.16	101.44
Calcium/ICP*filtered	310	mg/L	10	<10	11/15/02	6010 & 200.7	---	2.26	105.05	98.3	92.39
Chromium/ICP	<0.01	mg/L	0.01	<0.01	11/18/02	6010 & 200.7	---	0.38	99.32	99.15	98.64
Cobalt/ICP	<0.02	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	---	1.22	95.51	96.96	101.91
Copper/ICP	<0.02	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	J	0.45	98.82	95.44	128.15
Iron/ICP	10.9	mg/L	0.05	<0.05	11/18/02	6010 & 200.7	---	5.76	117.09	95.62	98.78
Lead/ICP	<0.02	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	---	1.57	94.14	98.76	102.21
Magnesium/ICP*filtered	77.3	mg/L	5	<5	11/15/02	6010 & 200.7	---	12.17	110.77	99.56	118.29
Manganese/ICP	0.902	mg/L	0.01	<0.01	11/18/02	6010 & 200.7	---	3.56	89.66	100.14	99.93
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	11/18/02	245.1&7470	---	3.17	93.94	100	98.67
Molybdenum/ICP	<0.02	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	J	0.79	98.26	98.67	101.76

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

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 below the PQL and the MDL, B = Analyte detected in associated method blank(s), S1 = MS and/or MSD recovery exceed advisory limits, S2 = Post digestion spike (PDS) recovery exceeds advisory limit, S3 = MS and/or MSD and PDS recoveries exceed advisory limits, P = Precision higher than advisory limit, M = Matrix interference.



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

Client: Environmental Tech Group
Attn: Robert Edison

Project ID: LR To HP Sims EO 2096
Sample Name: MW 12

Report#/Lab ID#: 136275
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
Nickel/ICP	<0.02	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	J	0.66	96.82	98.64	101.97
Potassium/AA*filtered	3.74	mg/L	0.25	<0.25	11/15/02	258.1&7610	---	4.88	80.08	97.21	96.06
Selenium/ICP	0.0561	mg/L	0.05	<0.05	11/18/02	6010 & 200.7	---	0.92	103.66	97.48	99.44
Silver/GFAA	<0.002	mg/L	0.002	<0.002	11/18/02	272.2&7761	---	3.47	77.98	90	119
Sodium/ICP*filtered	565	mg/L	50	<50	11/15/02	6010 & 200.7	---	8.43	117.18	98.36	115.59
Strontium/ICP	6.79	mg/L	0.05	<0.05	11/18/02	6010 & 200.7	---	0.08	98.26	100.48	98.69
Tin/ICP	<0.05	mg/L	0.05	<0.05	11/18/02	6010 & 200.7	---	0.48	93.43	98.88	99.41
Vanadium/ICP	0.248	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	---	2.66	95.69	101.04	97.66
Zinc/ICP	0.0236	mg/L	0.01	<0.01	11/18/02	6010 & 200.7	---	1.07	101.61	99.29	101.88
Alkalinity, bicarbonate	300	mg/L	10	<10	11/14/02	SM2320	---	1.43	-NA-	-NA-	-NA-
Alkalinity, carbonate	<10	mg/L	10	<10	11/14/02	SM2320	---	1.43	-NA-	-NA-	-NA-
Chloride	935	mg/L	5	<5	11/12/02	325.2&9251	---	0	108.32	103.57	95.83
Sulfate	388	mg/L	100	<100	11/12/02	375.4&9038	---	0.74	106.59	93.47	95.54
Extractable organics-PAH	---	---	---	---	11/14/02	8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	11/12/02	8260b	---	---	---	---	---
Benzene	2300	µg/L	10	<10	11/12/02	8260b	---	2.6	91.8	107.3	85.8
Ethylbenzene	4.93	µg/L	1	<1	11/12/02	8260b	---	5.3	104.4	114.2	101.1
m,p-Xylenes	292	µg/L	10	<10	11/12/02	8260b	---	5.4	104.7	117.4	99.5
o-Xylene	91.5	µg/L	1	<1	11/12/02	8260b	---	5.3	102.4	115	96.3
Toluene	11.9	µg/L	1	<1	11/12/02	8260b	---	0.6	100.2	117	95.1
Acenaphthene	0.074	µg/L	0.05	<0.05	11/14/02	8270c	---	14.7	66.4	99.3	53.2
Acenaphthylene	0.151	µg/L	0.05	<0.05	11/14/02	8270c	---	13	87.7	107.9	69.4
Anthracene	0.096	µg/L	0.05	<0.05	11/14/02	8270c	---	0	96.4	109.6	93.5
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	J	7.1	98.6	116.6	92.6
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	J	17.2	92.5	119.7	87.9
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	J	20.6	87.6	117.7	82.8
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	J	17.1	93	116.4	87.4
Benzo[k]fluoranthene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	J	13.6	90.3	119.1	87.1
Chrysene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	J	2.4	103.2	115	99.8
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	5.5	93.7	113.3	88.5
Fluoranthene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	J	2.1	104.5	118.1	108.9
Fluorene	0.662	µg/L	0.05	<0.05	11/14/02	8270c	---	17.4	78.4	95.2	62.9



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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Robert Edison

Project ID: LR To HP Sims EO 2096
Sample Name: MW 12

Report#/Lab ID#: 136275
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	18.1	94.5	103	88.9
Naphthalene	1.98	µg/L	0.05	<0.05	11/14/02	8270c	---	19.7	58.8	104.2	67.1
Phenanthrene	0.722	µg/L	0.05	<0.05	11/14/02	8270c	---	2.4	93.8	103.4	80.4
Pyrene	0.071	µg/L	0.05	<0.05	11/14/02	8270c	---	2	101.8	106.5	95.5



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Project ID: LR To HP Sims EO 2096
Sample Name: MW 12

Report#/Lab ID#: 136275
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	100	80-120	---
Toluene-d8	8260b	101	88-110	---
2-Fluorobiphenyl	8270c	49.2	43-116	---
Nitrobenzene-d5	8270c	59.7	35-114	---
Terphenyl-d14	8270c	63.9	33-141	---

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

Exceptions Report:

Report #/Lab ID#: 136275	Matrix: water	Attn: Robert Edison
Client: Environmental Tech Group		
Project ID: LR To HP Sims EO 2096		
Sample Name: MW 12		

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

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Ascentic/ICP	J	See J-flag discussion above.
Copper/ICP	J	See J-flag discussion above.
Molybdenum/ICP	J	See J-flag discussion above.
Nickel/ICP	J	See J-flag discussion above.
Benzolanthracene	J	See J-flag discussion above.
Benzolapyrene	J	See J-flag discussion above.
Benzolb]fluoranthene	J	See J-flag discussion above.
Benzog h,i]perylene	J	See J-flag discussion above.
Benzolj,k]fluoranthene	J	See J-flag discussion above.
Chrysene	J	See J-flag discussion above.
Fluoranthene	J	See J-flag discussion above.

Notes:



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Client: Environmental Tech Group
Attn: Robert Edison
Address: 2540 W. Marland
Hobbs NM 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 136276 Report Date: 11/22/02
Project ID: LR To HP Sims EO 2096
Sample Name: MW 13
Sample Matrix: water
Date Received: 11/11/2002 Time: 08:00
Date Sampled: 11/06/2002 Time: 13:15

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
A/BN Extraction-PAH	---	---	---	---	11/11/02	3520	---	---	---	---	---
Metals Dig.-Hg	---	---	---	---	11/18/02	7470&245.1	---	---	---	---	---
Metals Dig.-HNO ₃	---	---	---	---	11/15/02	3015	---	---	---	---	---
Metals Dig.-HNO ₃ *Filtered	---	---	---	---	11/12/02	3005A	---	---	---	---	---
Total dissolved solids	2960	mg/L	1	<1	11/13/02	160.1	---	1.1	-NA-	-NA-	-NA-
Aluminum/ICP	75.6	mg/L	0.2	<0.2	11/18/02	6010 & 200.7	---	0.73	97.47	98.4	138.4
Arsenic/ICP	<0.05	mg/L	0.05	<0.05	11/18/02	6010 & 200.7	J	0.74	102.29	97.44	99.73
Barium/ICP	1.82	mg/L	0.01	<0.01	11/18/02	6010 & 200.7	---	2.25	107.17	100.5	99.21
Beryllium/ICP	<0.004	mg/L	0.004	<0.004	11/18/02	6010 & 200.7	---	0.7	96.64	96.7	98.76
Boron/ICP	0.811	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	---	0.79	88.09	98.34	98.53
Cadmium/ICP	<0.005	mg/L	0.005	<0.005	11/18/02	6010 & 200.7	---	0.88	101.12	97.16	101.44
Calcium/ICP*Filtered	328	mg/L	10	<10	11/15/02	6010 & 200.7	---	2.26	105.05	98.3	92.39
Chromium/ICP	0.0349	mg/L	0.01	<0.01	11/18/02	6010 & 200.7	---	0.38	99.32	99.15	98.64
Cobalt/ICP	<0.02	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	J	1.22	95.51	96.96	101.91
Copper/ICP	<0.02	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	J	0.45	98.82	95.44	128.15
Iron/ICP	30.1	mg/L	5	<5	11/20/02	6010 & 200.7	---	2.86	85.35	101.22	107.61
Lead/ICP	<0.02	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	---	1.57	94.14	98.76	102.21
Magnesium/ICP*Filtered	81	mg/L	5	<5	11/15/02	6010 & 200.7	---	12.17	110.77	99.56	118.29
Manganese/ICP	1.33	mg/L	0.01	<0.01	11/18/02	6010 & 200.7	---	3.56	89.66	100.14	99.93
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	11/18/02	245.1&7470	---	3.17	93.94	100	98.67
Molybdenum/ICP	<0.02	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	J	0.79	98.26	98.67	101.76

QUALITY ASSURANCE DATA¹

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

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). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.

Client: Environmental Tech Group
Attn: Robert Edison

Project ID: LR To HP Sims EO 2096
Sample Name: MW 13

Report#/Lab ID#: 136276
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Nickel/ICP	0.0206	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	---	0.66	96.82	98.64	101.97
Potassium/AA*filtered	5.59	mg/L	0.25	<0.25	11/15/02	258.1&7610	---	4.88	80.08	97.21	96.06
Selenium/ICP	0.0978	mg/L	0.05	<0.05	11/18/02	6010 & 200.7	---	0.92	103.66	97.48	99.44
Silver/GFAA	<0.002	mg/L	0.002	<0.002	11/20/02	272.2&7761	---	4.12	89.91	87.5	118
Sodium/ICP*filtered	495	mg/L	50	<50	11/15/02	6010 & 200.7	---	8.43	117.18	98.36	115.59
Strontium/ICP	9.51	mg/L	0.05	<0.05	11/18/02	6010 & 200.7	---	0.08	98.26	100.48	98.69
Tin/ICP	<0.05	mg/L	0.05	<0.05	11/18/02	6010 & 200.7	---	0.48	93.43	98.88	99.41
Vanadium/ICP	0.577	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	---	2.66	95.69	101.04	97.66
Zinc/ICP	0.0665	mg/L	0.01	<0.01	11/18/02	6010 & 200.7	---	1.07	101.61	99.29	101.88
Alkalinity, bicarbonate	120	mg/L	10	<10	11/14/02	SM2320	---	1.43	-NA-	-NA-	-NA-
Alkalinity, carbonate	<10	mg/L	10	<10	11/14/02	SM2320	---	1.43	-NA-	-NA-	-NA-
Chloride	1090	mg/L	50	<50	11/12/02	325.2&9251	---	0	108.32	103.57	95.83
Sulfate	467	mg/L	10	<10	11/12/02	375.4&9038	---	0.74	106.59	93.47	95.54
Extractable organics-PAH	---	---	---	---	11/14/02	8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	11/11/02	8260b	---	---	---	---	---
Benzene	79.9	µg/L	1	<1	11/11/02	8260b	---	3.3	77.9	88	83.7
Ethylbenzene	<1	µg/L	1	<1	11/11/02	8260b	---	2.9	115.6	98.8	118.7
m,p-Xylenes	1.63	µg/L	1	<1	11/11/02	8260b	---	3.7	117	97.2	119.6
o-Xylene	1.4	µg/L	1	<1	11/11/02	8260b	---	3.1	113.4	93.5	117.6
Toluene	<1	µg/L	1	<1	11/11/02	8260b	---	4	104.5	94	113.1
Acenaphthene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	14.7	66.4	99.3	53.2
Acenaphthylene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	13	87.7	107.9	69.4
Anthracene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	0	96.4	109.6	93.5
Benzo[a]anthracene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	7.1	98.6	116.6	92.6
Benzo[a]pyrene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	17.2	92.5	119.7	87.9
Benzo[b]fluoranthene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	20.6	87.6	117.7	82.8
Benzo[g,h,i]perylene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	17.1	93	116.4	87.4
Benzo[j,k]fluoranthene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	13.6	90.3	119.1	87.1
Chrysene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	2.4	103.2	115	99.8
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	5.5	93.7	113.3	88.5
Fluoranthene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	2.1	104.5	118.1	108.9
Fluorene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	17.4	78.4	95.2	62.9

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Client: Environmental Tech Group
 Attn: Robert Edison

Project ID: LR To HP Sims EO 2096
 Sample Name: MW 13

Report#/Lab ID#: 136276
 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
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	18.1	94.5	103	88.9
Naphthalene	0.232	µg/L	0.05	<0.05	11/14/02	8270c	---	19.7	58.8	104.2	67.1
Phenanthrene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	2.4	93.8	103.4	80.4
Pyrene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	J	2	101.8	106.5	95.5



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Client: Environmental Tech Group Attn: Robert Edison	Project ID: LR To HP Sims EO 2096 Sample Name: MW 13	Report#/Lab ID#: 136276 Sample Matrix: water
---	---	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4 Toluene-d8	8260b	91.1	80-120	---
	8260b	103	88-110	---
2-Fluorobiphenyl Nitrobenzene-d5 Terphenyl-d14	8270c	52	43-116	---
	8270c	88.4	35-114	---
	8270c	71.1	33-141	---

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

Exceptions Report:

Report #/Lab ID#: 136276	Matrix: water	Attn: Robert Edison
Client: Environmental Tech Group		
Project ID: LR To HP Sims EO 2096		
Sample Name: MW 13		

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
Arsenic/ICP	J	See J-flag discussion above.
Cobalt/ICP	J	See J-flag discussion above.
Copper/ICP	J	See J-flag discussion above.
Molybdenum/ICP	J	See J-flag discussion above.
Pyrene	J	See J-flag discussion above.

Notes:



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Client: Environmental Tech Group
Attn: Robert Edison
Address: 2540 W. Marland
Hobbs NM 88240

Phone: 505 397-4882 FAX: 505 397-4701

Report# Lab ID#: 136277 Report Date: 11/22/02
Project ID: LR To HP Sims EO 2096
Sample Name: MW 14
Sample Matrix: water
Date Received: 11/11/2002 Time: 08:00
Date Sampled: 11/06/2002 Time: 13:43

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	---	---	---	---	11/11/02	3520	---	---	---	---	---
Metals Dig.-Hg	---	---	---	---	11/18/02	7470&245.1	---	---	---	---	---
Metals Dig.-HNO ₃	---	---	---	---	11/15/02	3015	---	---	---	---	---
Metals Dig.-HNO ₃ *filtered	---	---	---	---	11/12/02	3005A	---	---	---	---	---
Total dissolved solids	1800	mg/L	1	<1	11/13/02	160.1	---	1.1	NA-	NA-	NA-
Aluminum/ICP	0.389	mg/L	0.2	<0.2	11/18/02	6010 & 200.7	---	0.73	97.47	98.4	138.4
Arsenic/ICP	<0.05	mg/L	0.05	<0.05	11/18/02	6010 & 200.7	J	0.74	102.29	97.44	99.73
Barium/ICP	10.1	mg/L	1	<1	11/20/02	6010 & 200.7	---	3.06	93.94	100.82	101.19
Beryllium/ICP	<0.004	mg/L	0.004	<0.004	11/18/02	6010 & 200.7	---	0.7	96.64	96.7	98.76
Boron/ICP	1.14	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	---	0.79	88.09	98.34	98.53
Cadmium/ICP	<0.005	mg/L	0.005	<0.005	11/18/02	6010 & 200.7	---	0.88	101.12	97.16	101.44
Calcium/ICP*filtered	58.5	mg/L	10	<10	11/15/02	6010 & 200.7	---	2.26	105.05	98.3	92.39
Chromium/ICP	<0.01	mg/L	0.01	<0.01	11/18/02	6010 & 200.7	---	0.38	99.32	99.15	98.64
Cobalt/ICP	<0.02	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	---	1.22	95.51	96.96	101.91
Copper/ICP	<0.02	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	---	0.45	98.82	95.44	128.15
Iron/ICP	15.3	mg/L	0.05	<0.05	11/18/02	6010 & 200.7	---	5.76	117.09	95.62	98.78
Lead/ICP	<0.02	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	---	1.57	94.14	98.76	102.21
Magnesium/ICP*filtered	17.6	mg/L	5	<5	11/15/02	6010 & 200.7	---	12.17	110.77	99.56	118.29
Manganese/ICP	1.64	mg/L	1	<1	11/20/02	6010 & 200.7	---	1.24	85.52	101.16	102.07
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	11/18/02	245.1&7470	---	3.17	93.94	100	98.67
Molybdenum/ICP	<0.02	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	---	0.79	98.26	98.67	101.76

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,

Richard Laster

Richard Laster

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). 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 Tech Group
Attn: Robert Edison

Project ID: LR To HP Sims EO 2096
Sample Name: MW 14

Report#/Lab ID#: 136277
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Nickel/ICP	<0.02	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	---	0.66	96.82	98.64	101.97
Potassium/AA*filtered	2.27	mg/L	0.25	<0.25	11/15/02	258.1&7610	---	4.88	80.08	97.21	96.06
Selenium/ICP	<0.05	mg/L	0.05	<0.05	11/18/02	6010 & 200.7	J	0.92	103.66	97.48	99.44
Silver/GFAA	<0.002	mg/L	0.002	<0.002	11/20/02	272.2&7761	---	4.12	89.91	87.5	118
Sodium/ICP*filtered	499	mg/L	50	<50	11/15/02	6010 & 200.7	---	8.43	117.18	98.36	115.59
Strontium/ICP	16.9	mg/L	0.05	<0.05	11/18/02	6010 & 200.7	---	0.08	98.26	100.48	98.69
Tin/ICP	<0.05	mg/L	0.05	<0.05	11/18/02	6010 & 200.7	---	0.48	93.43	98.88	99.41
Vanadium/ICP	<0.02	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	---	2.66	95.69	101.04	97.66
Zinc/ICP	0.0269	mg/L	0.01	<0.01	11/18/02	6010 & 200.7	---	1.07	101.61	99.29	101.88
Alkalinity, bicarbonate	230	mg/L	10	<10	11/14/02	SM2320	---	1.43	-NA-	-NA-	-NA-
Alkalinity, carbonate	<10	mg/L	10	<10	11/14/02	SM2320	---	1.43	-NA-	-NA-	-NA-
Chloride	489	mg/L	5	<5	11/12/02	325.2&9251	---	0	108.32	103.57	95.83
Sulfate	407	mg/L	10	<10	11/12/02	375.4&9038	---	0.74	106.59	93.47	95.54
Extractable organics-PAH	---	---	---	---	11/14/02	8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	11/11/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/11/02	8260b	---	3.3	77.9	88	83.7
Ethylbenzene	<1	µg/L	1	<1	11/11/02	8260b	---	2.9	115.6	98.8	118.7
m,p-Xylenes	<1	µg/L	1	<1	11/11/02	8260b	---	3.7	117	97.2	119.6
o-Xylene	<1	µg/L	1	<1	11/11/02	8260b	---	3.1	113.4	93.5	117.6
Toluene	<1	µg/L	1	<1	11/11/02	8260b	---	4	104.5	94	113.1
Acenaphthene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	14.7	66.4	99.3	53.2
Acenaphthylene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	13	87.7	107.9	69.4
Anthracene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	0	96.4	109.6	93.5
Benzofluoranthene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	7.1	98.6	116.6	92.6
Benzofluoranthene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	17.2	92.5	119.7	87.9
Benzofluoranthene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	20.6	87.6	117.7	82.8
Benzofluoranthene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	17.1	93	116.4	87.4
Benzofluoranthene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	13.6	90.3	119.1	87.1
Chrysene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	2.4	103.2	115	99.8
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	5.5	93.7	113.3	88.5
Fluoranthene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	2.1	104.5	118.1	108.9
Fluorene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	17.4	78.4	95.2	62.9



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Client: Environmental Tech Group
Attn: Robert Edison

Project ID: LR To HP Sims EO 2096
Sample Name: MW 14

Report#/Lab ID#: 136277
Sample Matrix: water

REPORT OF ANALYSIS-cont.

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	18.1	94.5	103	88.9
Naphthalene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	19.7	58.8	104.2	67.1
Phenanthrene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	2.4	93.8	103.4	80.4
Pyrene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	J	2	101.8	106.5	95.5



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Client: Environmental Tech Group Attn: Robert Edison	Project ID: LR To HP Sims EO 2096 Sample Name: MW 14	Report#/Lab ID#: 136277 Sample Matrix: water
---	---	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4 Toluene-d8	8260b	99.9	80-120	---
	8260b	102	88-110	---
2-Fluorobiphenyl Nitrobenzene-d5 Terphenyl-d14	8270c	48.9	43-116	---
	8270c	81.6	35-114	---
	8270c	70.5	33-141	---

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

Exceptions Report:

Report #/Lab ID#: 136277	Matrix: water	Attn: Robert Edison
Client: Environmental Tech Group		
Project ID: LR To HP Sims EO 2096		
Sample Name: MW 14		

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Arsenic/ICP	J	See J-flag discussion above.
Selenium/ICP	J	See J-flag discussion above.
Pyrene	J	See J-flag discussion above.

Notes:



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Client: Environmental Tech Group

Attn: Robert Edison

Address: 2540 W. Marland

Hobbs NM 88240

Phone: 505 397-4882

FAX: 505 397-4701

Report# / Lab ID#: 136278 Report Date: 11/22/02

Project ID: LR To HP Sims EO 2096

Sample Name: MW 15

Sample Matrix: water

Date Received: 11/11/2002 Time: 08:00

Date Sampled: 11/06/2002 Time: 14:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
A/BN Extraction-PAH	---	---	---	---	11/11/02	3520	---	---	---	---	---
Metals Dig.-Hg	---	---	---	---	11/18/02	7470&245.1	---	---	---	---	---
Metals Dig.-HNO ₃	---	---	---	---	11/13/02	3015	---	---	---	---	---
Metals Dig.-HNO ₃ *filtered	---	---	---	---	11/12/02	3005A	---	---	---	---	---
Total dissolved solids	2610	mg/L	1	<1	11/13/02	160.1	---	1.1	-NA-	-NA-	-NA-
Aluminum/ICP	52.2	mg/L	0.2	<0.2	11/18/02	6010 & 200.7	---	0.73	97.47	98.4	138.4
Arsenic/ICP	<0.05	mg/L	0.05	<0.05	11/18/02	6010 & 200.7	J	0.74	102.29	97.44	99.73
Barium/ICP	1.29	mg/L	0.01	<0.01	11/18/02	6010 & 200.7	---	2.25	107.17	100.5	99.21
Beryllium/ICP	<0.004	mg/L	0.004	<0.004	11/18/02	6010 & 200.7	---	0.7	96.64	96.7	98.76
Boron/ICP	1.07	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	---	0.79	88.09	98.34	98.53
Cadmium/ICP	<0.005	mg/L	0.005	<0.005	11/18/02	6010 & 200.7	---	0.88	101.12	97.16	101.44
Calcium/ICP*filtered	198	mg/L	10	<10	11/15/02	6010 & 200.7	---	2.26	105.05	98.3	92.39
Chromium/ICP	0.0129	mg/L	0.01	<0.01	11/18/02	6010 & 200.7	---	0.38	99.32	99.15	98.64
Cobalt/ICP	<0.02	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	J	1.22	95.51	96.96	101.91
Copper/ICP	0.0423	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	---	0.45	98.82	95.44	128.15
Iron/ICP	19.1	mg/L	5	<5	11/20/02	6010 & 200.7	---	2.86	85.35	101.22	107.61
Lead/ICP	<0.02	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	---	1.57	94.14	98.76	102.21
Magnesium/ICP*filtered	68.1	mg/L	5	<5	11/15/02	6010 & 200.7	---	12.17	110.77	99.56	118.29
Manganese/ICP	1.2	mg/L	0.01	<0.01	11/18/02	6010 & 200.7	---	3.56	89.66	100.14	99.93
Mercury/CVAA	<0.0002	mg/L	0.0002	<0.0002	11/18/02	245.1&7470	---	3.17	93.94	100	98.67
Molybdenum/ICP	<0.02	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	J	0.79	98.26	98.67	101.76

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Respectfully Submitted,

Richard Laster

Richard Laster

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). 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 Tech Group
Attn: Robert Edison

Project ID: LR To HP Sims EO 2096
Sample Name: MW 15

Report#/Lab ID#: 136278
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
Nickel/ICP	<0.02	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	J	0.66	96.82	98.64	101.97
Potassium/AA*filtered	3.48	mg/L	0.25	<0.25	11/15/02	258.1&7610	---	4.88	80.08	97.21	96.06
Selenium/ICP	0.075	mg/L	0.05	<0.05	11/18/02	6010 & 200.7	---	0.92	103.66	97.48	99.44
Silver/GFAA	<0.002	mg/L	0.002	<0.002	11/18/02	272.2&7761	---	3.47	77.98	90	119
Sodium/ICP*filtered	498	mg/L	50	<50	11/15/02	6010 & 200.7	---	8.43	117.18	98.36	115.59
Strontium/ICP	8.41	mg/L	0.05	<0.05	11/18/02	6010 & 200.7	---	0.08	98.26	100.48	98.69
Tin/ICP	<0.05	mg/L	0.05	<0.05	11/18/02	6010 & 200.7	---	0.48	93.43	98.88	99.41
Vanadium/ICP	0.465	mg/L	0.02	<0.02	11/18/02	6010 & 200.7	---	2.66	95.69	101.04	97.66
Zinc/ICP	0.0514	mg/L	0.01	<0.01	11/18/02	6010 & 200.7	---	1.07	101.61	99.29	101.88
Alkalinity, bicarbonate	140	mg/L	10	<10	11/14/02	SM2320	---	1.43	-NA-	-NA-	-NA-
Alkalinity, carbonate	<10	mg/L	10	<10	11/14/02	SM2320	---	1.43	-NA-	-NA-	-NA-
Chloride	917	mg/L	5	<5	11/12/02	325.2&9251	---	0	108.32	103.57	95.83
Sulfate	497	mg/L	10	<10	11/12/02	375.4&9038	---	0.74	106.59	93.47	95.54
Extractable organics-PAH	---	---	---	---	11/14/02	8270c	---	---	---	---	---
Volatile organics-8260b/BTEX	---	---	---	---	11/11/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/11/02	8260b	---	3.3	77.9	88	83.7
Ethylbenzene	<1	µg/L	1	<1	11/11/02	8260b	---	2.9	115.6	98.8	118.7
m,p-Xylenes	<1	µg/L	1	<1	11/11/02	8260b	---	3.7	117	97.2	119.6
o-Xylene	<1	µg/L	1	<1	11/11/02	8260b	---	3.1	113.4	93.5	117.6
Toluene	<1	µg/L	1	<1	11/11/02	8260b	---	4	104.5	94	113.1
Acenaphthene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	14.7	66.4	99.3	53.2
Acenaphthylene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	13	87.7	107.9	69.4
Anthracene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	0	96.4	109.6	93.5
Benz[a]anthracene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	7.1	98.6	116.6	92.6
Benz[b]pyrene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	J	17.2	92.5	119.7	87.9
Benz[b]fluoranthene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	20.6	87.6	117.7	82.8
Benz[ghi]perylene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	17.1	93	116.4	87.4
Benz[k]fluoranthene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	13.6	90.3	119.1	87.1
Chrysene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	2.4	103.2	115	99.8
Dibenz[a,h]anthracene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	5.5	93.7	113.3	88.5
Fluoranthene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	2.1	104.5	118.1	108.9
Fluorene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	17.4	78.4	95.2	62.9



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

Client: Environmental Tech Group
Attn: Robert Edison

Project ID: LR To HP Sims EO 2096
Sample Name: MW 15

Report#/Lab ID#: 136278
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
Indeno[1,2,3-cd]pyrene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	18.1	94.5	103	88.9
Naphthalene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	19.7	58.8	104.2	67.1
Phenanthrene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	---	2.4	93.8	103.4	80.4
Pyrene	<0.05	µg/L	0.05	<0.05	11/14/02	8270c	J	2	101.8	106.5	95.5

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QUALITY
S

Client: Environmental Tech Group Attn: Robert Edison	Project ID: LR To HP Sims EO 2096 Sample Name: MW 15	Report#/Lab ID#: 136278 Sample Matrix: water
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REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4 Toluene-d8	8260b	99.7	80-120	---
	8260b	102	88-110	---
2-Fluorobiphenyl Nitrobenzene-d5 Terphenyl-d14	8270c	48.6	43-116	---
	8270c	58.9	35-114	---
	8270c	71.8	33-141	---

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

Exceptions Report:

Report #/Lab ID#: 136278	Matrix: water	Attn: Robert Edison
Client: Environmental Tech Group		
Project ID: LR To HP Sims EO 2096		
Sample Name: MW 15		

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

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Arsenic/ICP	J	See J-flag discussion above.
Cobalt/ICP	J	See J-flag discussion above.
Molybdenum/ICP	J	See J-flag discussion above.
Nickel/ICP	J	See J-flag discussion above.
Benzol[a]pyrene	J	See J-flag discussion above.
Pyrene	J	See J-flag discussion above.

Notes:

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Company Name

Address

City

ATTN:

Phone

Rush Status (must be confirmed with lab mgr.): _____

Project Name/PO#: L.R. To H. R. Sims Sampler: Mallett Corroto

FD-3096

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)
mw 2	11/6/02	0912	2		X		136266
mw 3	1	1015	2		X		136267
mw 4	1	1515	2		X		136268
mw 6	1	1035	2		X		136269
mw 7		1101	2		X		136270
mw 8		1117	2		X		136271
mw 9		1144	2		X		136272
mw 10		1212	2		X		136273
mw 11	1	1238	6		X		136274
mw 12	1	1445	6		X		136275

(1) 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 ASI's HSI list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp: 5.2°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Marcus Campos	E.T.C.I.	11-8-02	0900	William Humphrey	ASI	11/11/02	0800

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

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Send Reports To:

Company Name E. T. G. I.

Address 2540 W. Marland

City	Hobbs	State	NM
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ATTN: Robert Edison

Phone 505-397-4882 Fax 505-397-4741

Rush Status (must be confirmed with lab mgr.):

Project Name/PO#: L-K-T₂H.P.S.

EO-2096

Sampler: Marble Canyon

Bill to (if different):

Company Name

Address

City _____ State _____ Zip _____

ATTN:

Phone _____
Fax _____

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

Analyses Requested (1)

Please attach explanatory information as required.

[illegible]

(1) 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/TQL). 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 ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp: 5.2°C

Sample Relinquished By			Sample Received By		
Name	Affiliation	Date	Name	Affiliation	Date
Mauro Campa	E.T.C.I.	11-8-02	W. L. Thompson	ASL	11/11/02

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