385 1R-

REPORTS

DATE: 2006



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March 7, 2006

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

Re:

Plains All American - Annual Monitoring Report

One Site in Lea County, New Mexico

Dear Mr. Martin:

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

Vacuum 10" to Jal

Section 20, Township 19 South, Range 37 East, Lea County

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

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

Egnolds

Sincerely.

Camille Reynolds

Remediation Coordinator

Plains All American

CC:

Larry Johnson, NMOCD, Hobbs, NM

Enclosure





2005 ANNUAL MONITORING REPORT

PLAINS PIPELINE, L.P.

VACUUM 10-INCH TO JAL 18-385
PLAINS REF: 2002-10248
(COMPANY # 231735)

SW¼ of the SW¼ of Section 20, Township 19 South, Range 37 East Lea County, New Mexico

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

MARCH 2006

PREPARED BY:

Environmental Plus, Inc.

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

jstegemoller@envplus.net





Distribution List

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

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Camille Reynolds	Camille Reynolds Remediation Coordinator	Plains Pipeline, L.P.	3112 W. Hwy 82 Lovington, NM 88260	cjreynolds@paalp.com
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STANDARD OF CARE

Annual Monitoring Report

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

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

This report was prepared by:	
Jaron Steermoll	7 March 2006
Jason Stegemoller	Date
Environmental Scientist	
This report was reviewed by:	
Pain A Oren	7 March 2006
Iain A. Olness, P.G.	Date
Hydrogeologist	



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I. Background

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

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

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

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

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

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

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

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



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

II. Field Activities

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

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

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

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

III. Groundwater Gradient and PSH Thickness

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

IV. PSH Recovery

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



V. Groundwater Sampling

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

VI. Groundwater Analytical Results

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

VII. Excavation and Soil SamplingActivities

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

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

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



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

VIII. Soil Analytical Results

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

East Excavation

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

West Excavation

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

Soil Boring

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



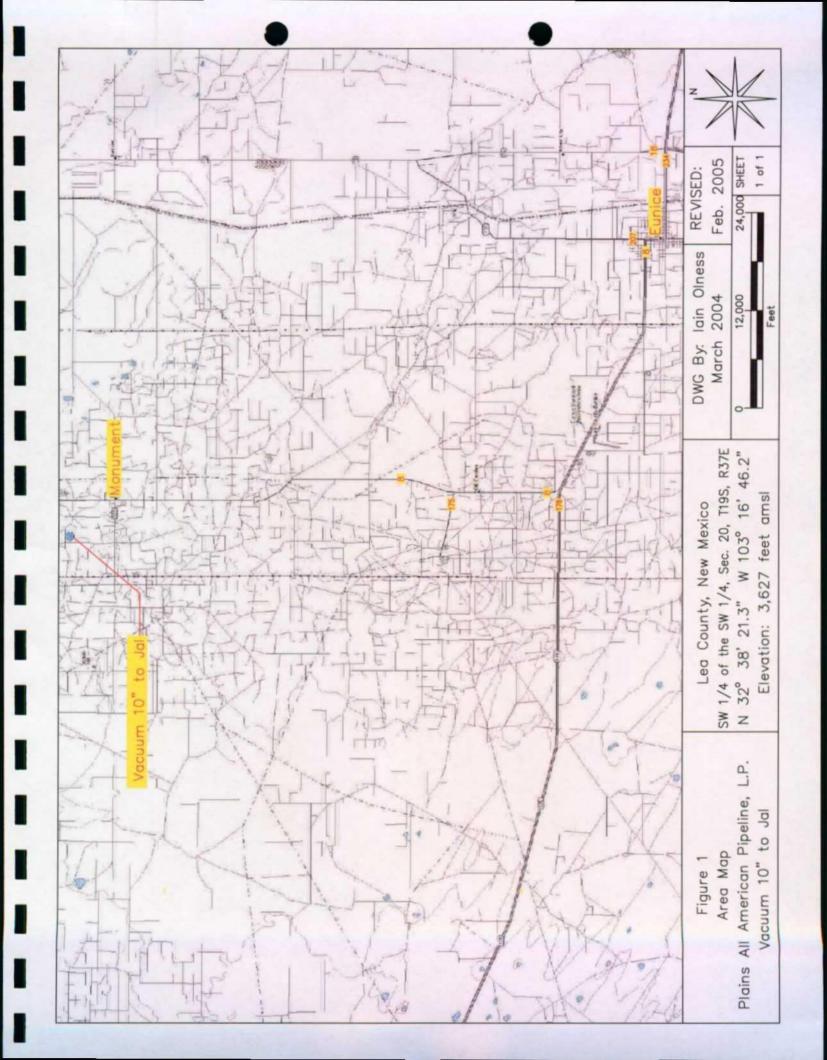
Analytical results for the soil samples collected during the advancement of the soil boring for groundwater monitoring well MW-9 on September 16, 2005 indicated TPH and BTEX constituent concentrations were ND at or above laboratory MDL (reference *Table 6*).

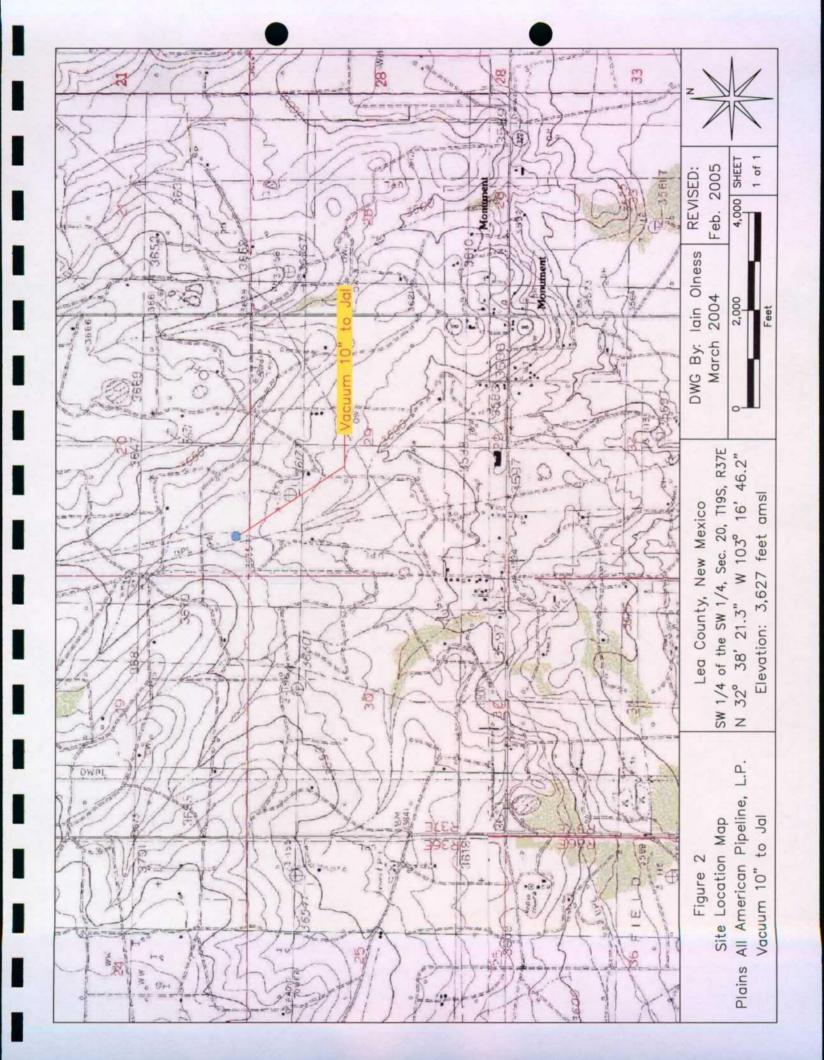
IX. Recommendations

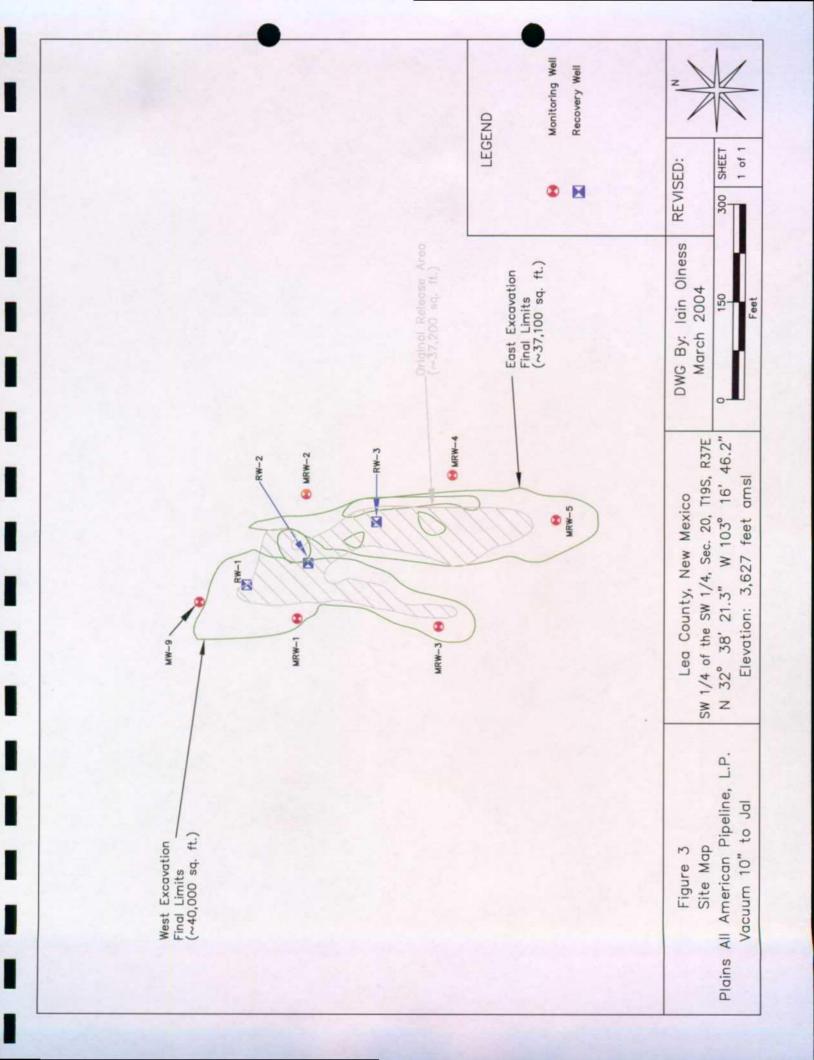
Based on field monitoring and analytical results collected during the past year and analyzed in conjunction with data collected during the remediation and subsequent investigation, the following recommendations are made:

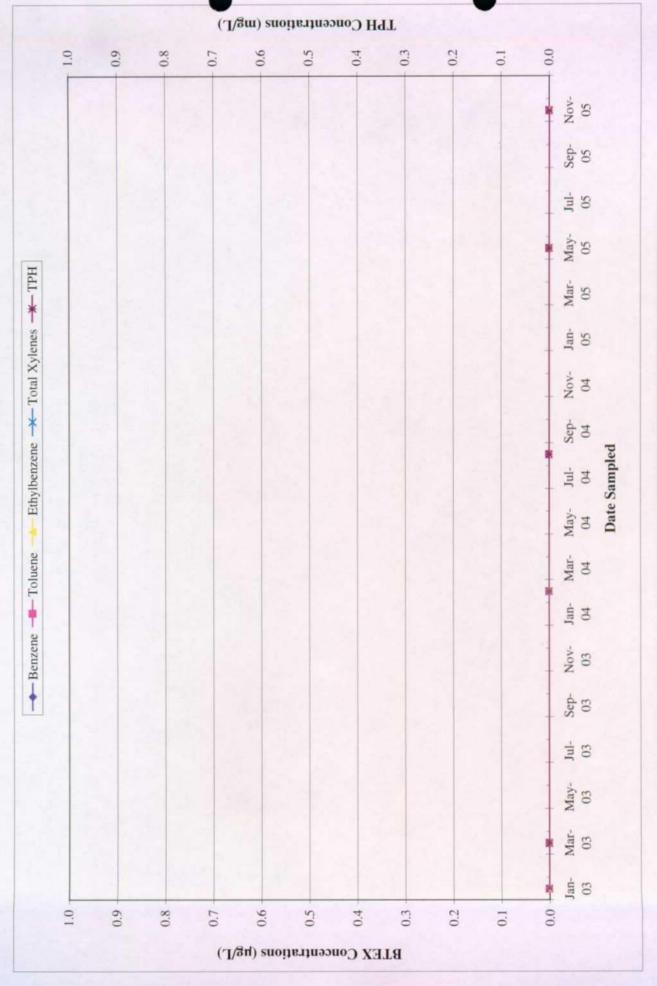
- 1) Continue to monitor the groundwater monitoring/recovery well network on a monthly basis for the potential presence of PSH in the groundwater monitoring well(s). In addition, collect groundwater level data from the monitoring/recovery well network on a monthly basis.
- 2) Based on historical low to ND contaminant levels in the monitoring/recovery well network, combined with the excavation of the impacted materials, it is recommended that the monitoring/recovery well network continue to be sampled on a quarterly basis through 2006 and the samples submitted for quantification of BTEX (reference *Table 4*). In the event analytical data indicates samples are below NMOCD remedial thresholds for all sampling events, the site will be recommended for closure.
- 3) Based on laboratory analytical results for soil samples obtained during excavation activities, and with the consensus of the NMOCD and the land owner, the excavation will be backfilled and the soil remediation portion of this release be closed during the first quarter of 2006. Following completion of backfilling activities, a separate soil closure report will be prepared and submitted to the NMOCD.

FIGURES









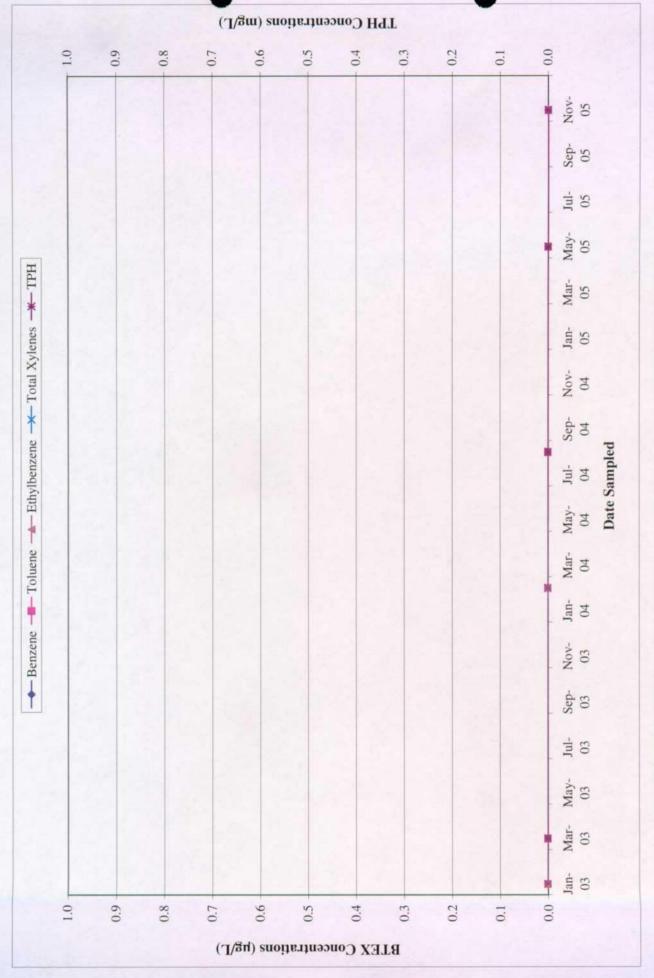
TPH and BTEX Concentrations in Groundwater Monitoring Well MRW-1 from 01/03/03 through 12/31/05, Plains All American Pipeline Vacuum 10" to Jal, Lea County, New Mexico. Figure 4:



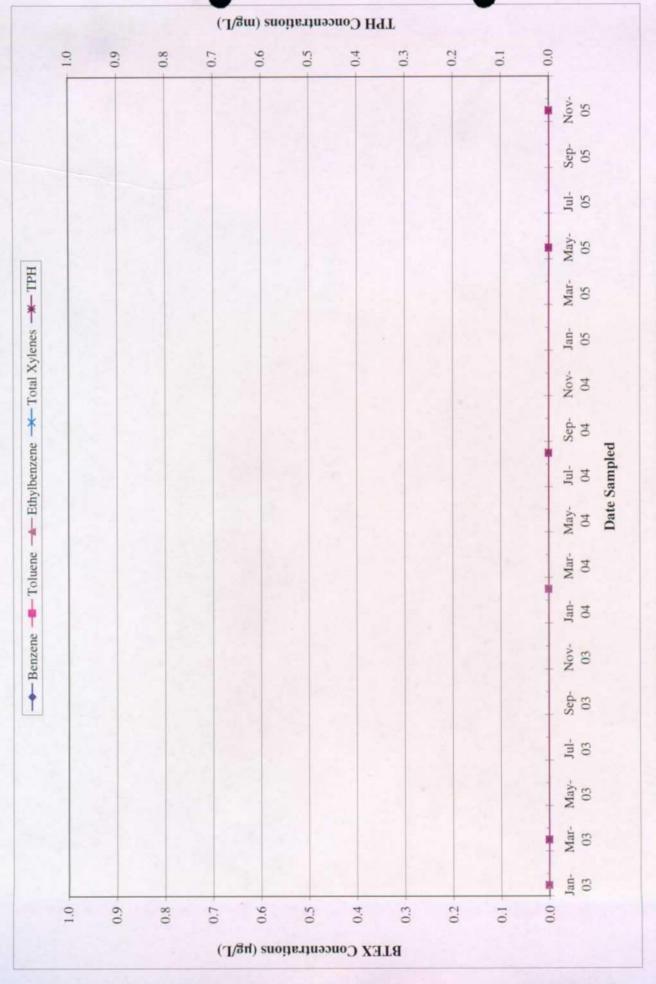
TPH and BTEX Concentrations in Groundwater Monitoring Well MRW-2 from 01/30/03 through 12/31/05, Plains All American Pipeline Vacuum 10" to Jal, Lea County, New Mexico. Figure 5:



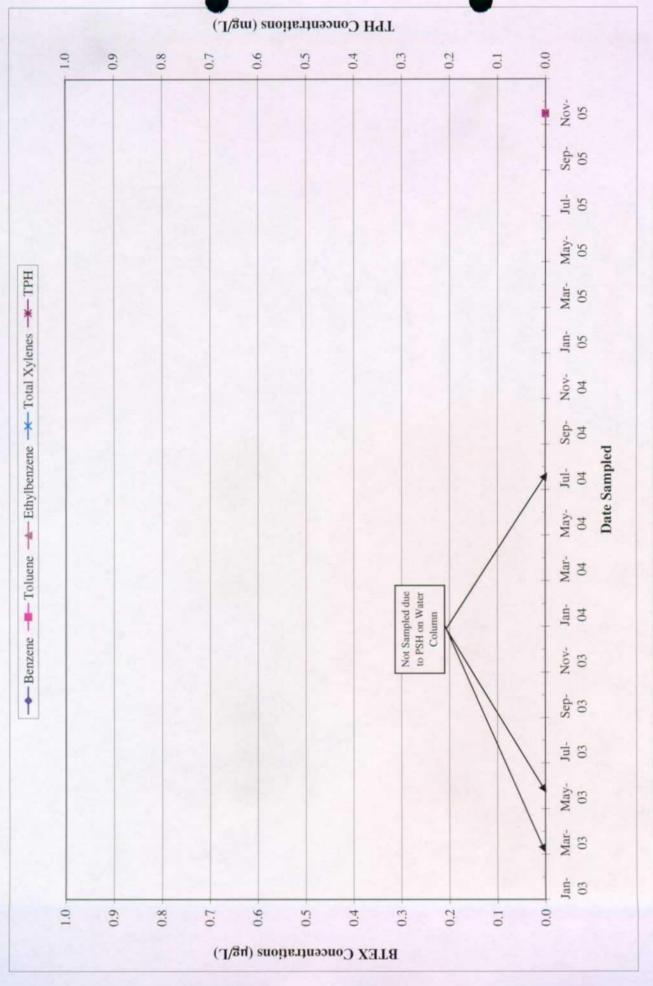
TPH and BTEX Concentrations in Groundwater Monitoring Well MRW-3 from 01/30/03 through 12/31/05, Plains All American Pipeline Vacuum 10" to Jal, Lea County, New Mexico. Figure 6:



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



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



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

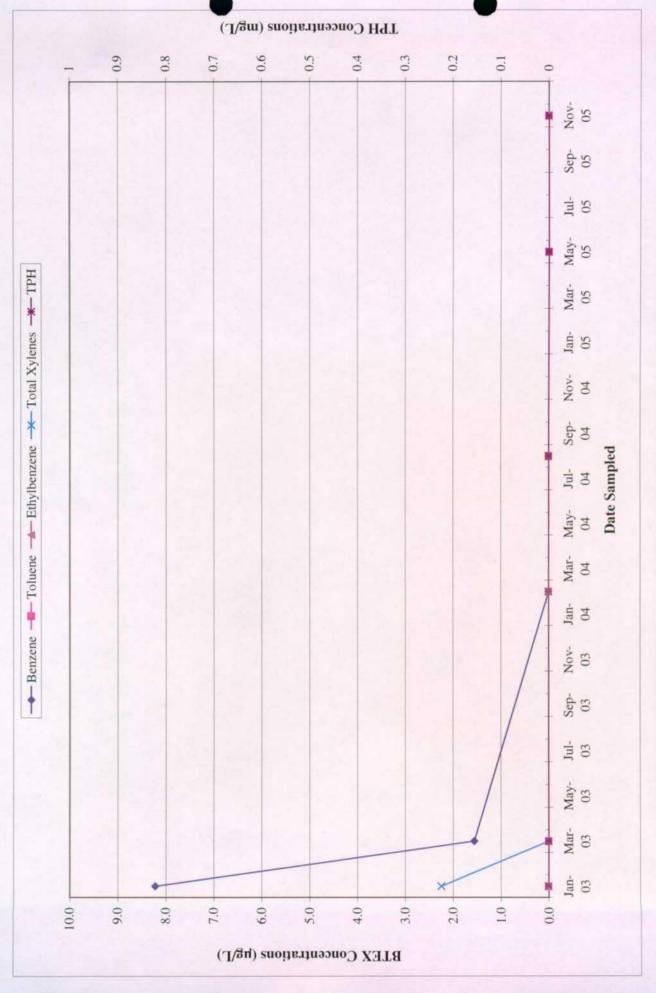


Figure 10: TPH and BTEX Concentrations in Groundwater Recovery Well RW-2 from 01/30/03 through 12/31/05, Plains all American Pipeline Vacuum 10" to Jal, Lea County, New Mexico.

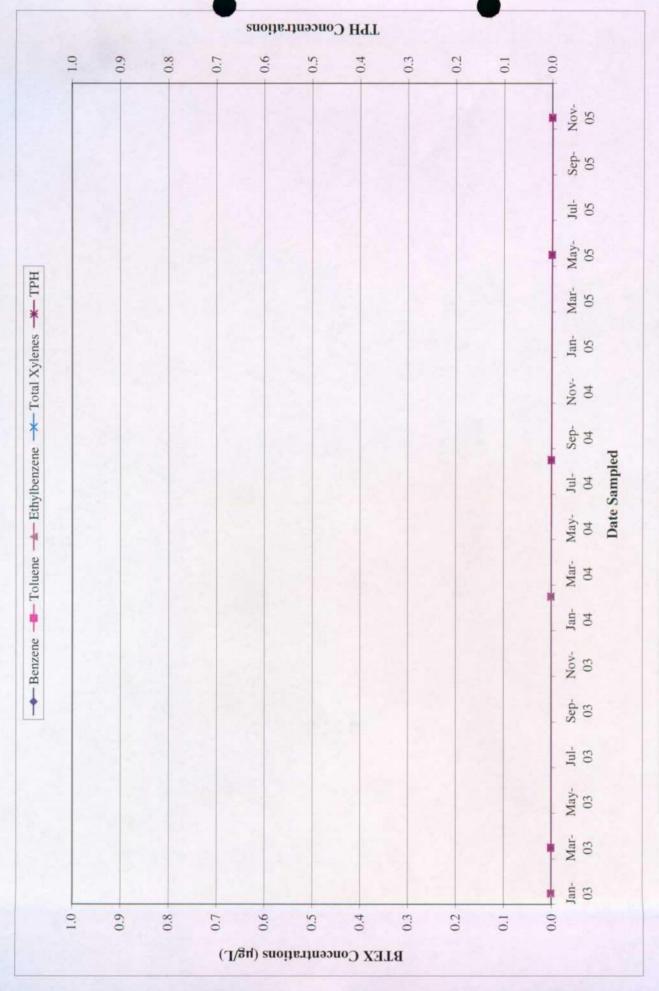


Figure 11: TPH and BTEX Concentrations in Groundwater Recovery Well RW-3 from 01/30/03 through 12/31/05, Plains All American Pipeline Vacuum 10" to Jal, Lea County, New Mexico.

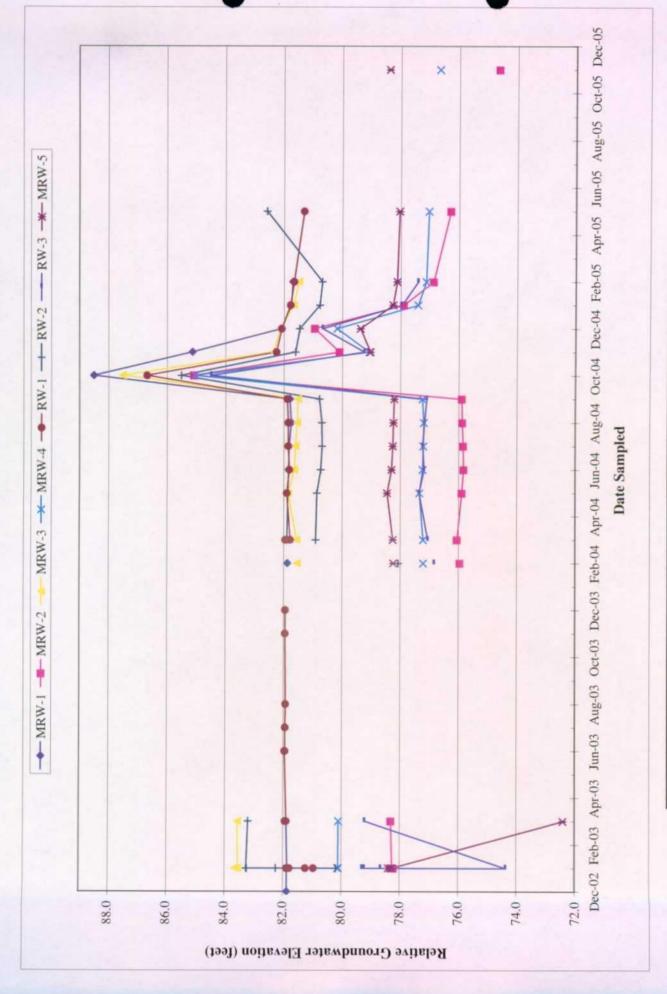
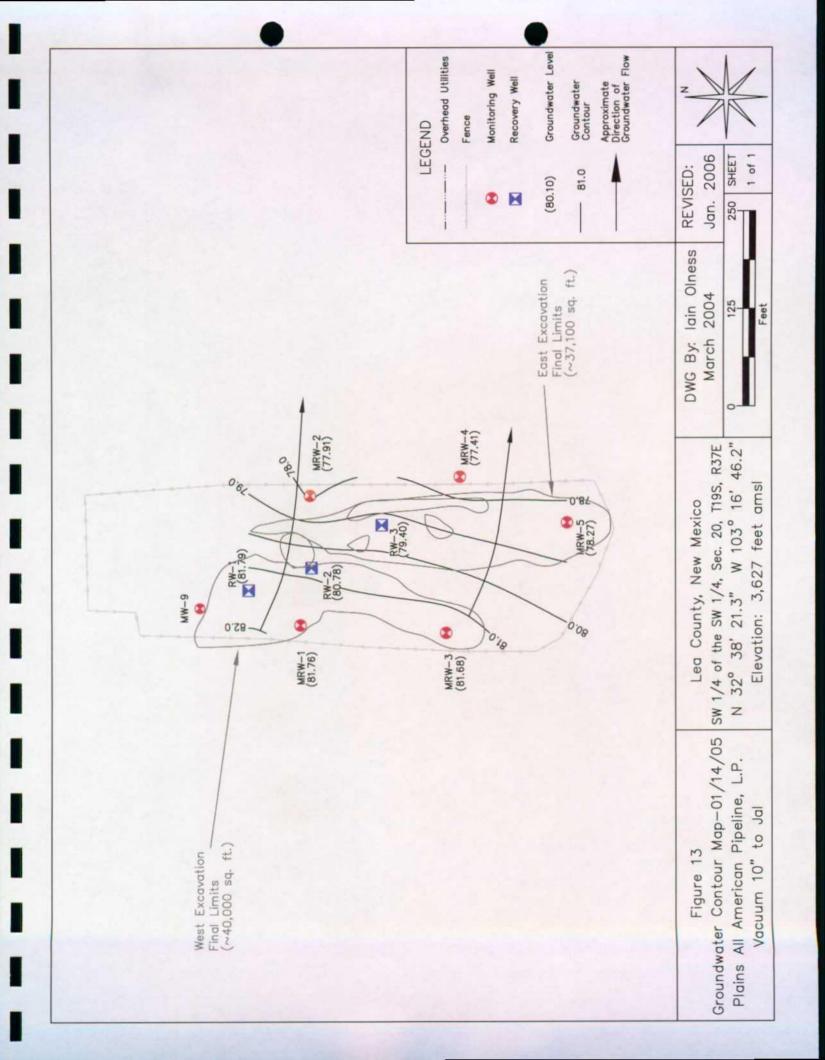
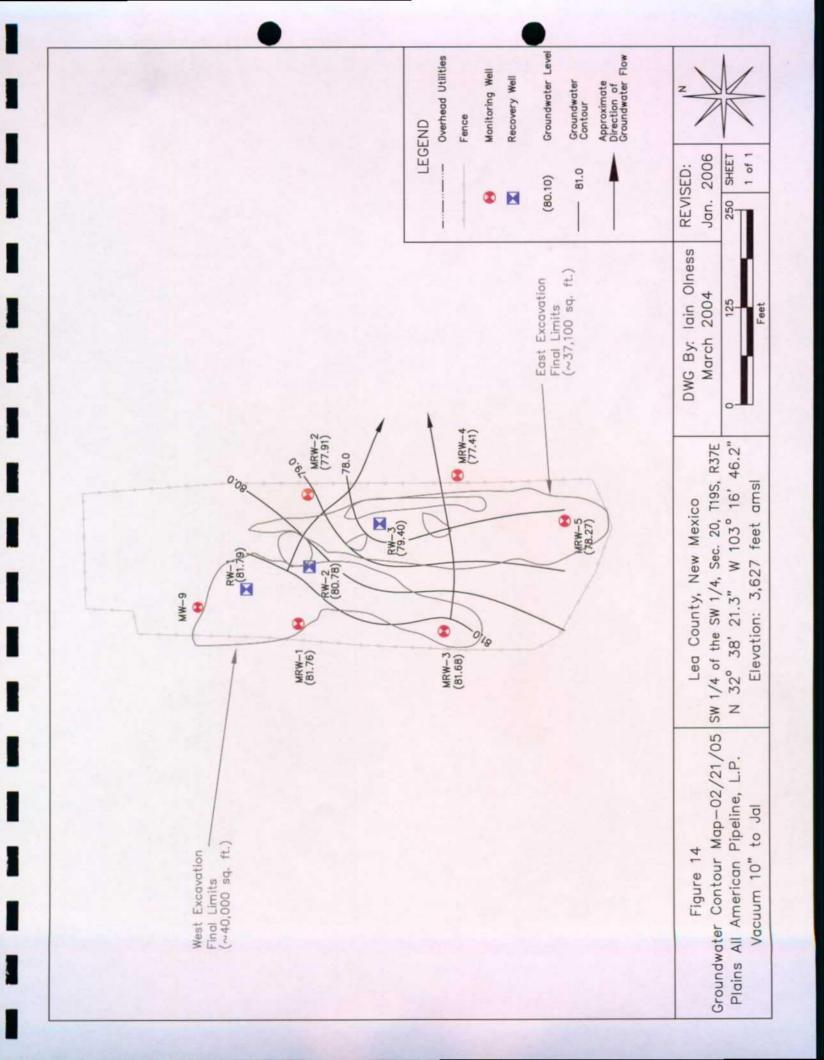
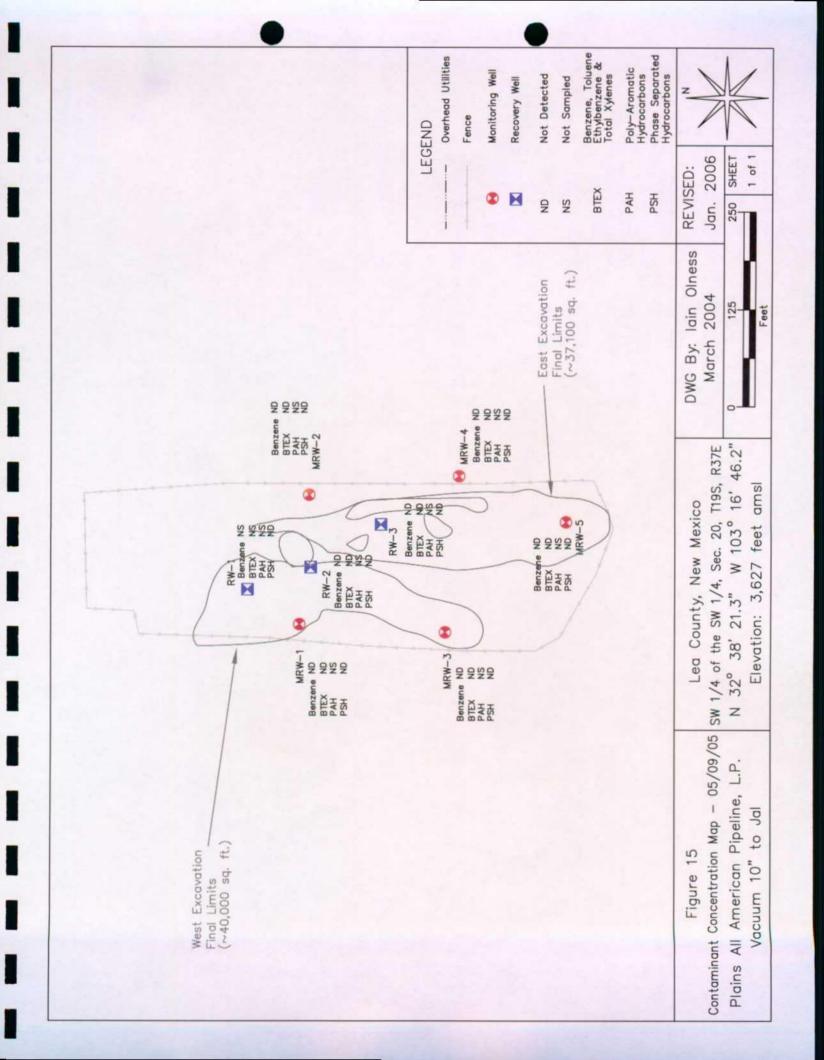
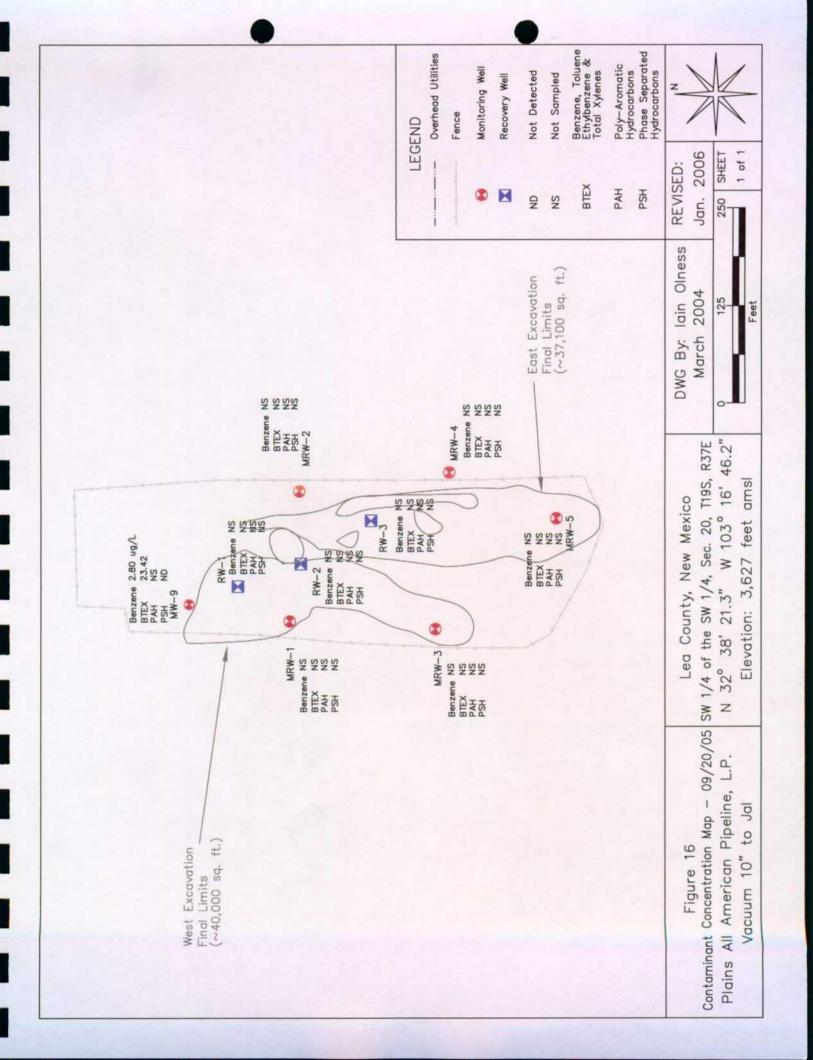


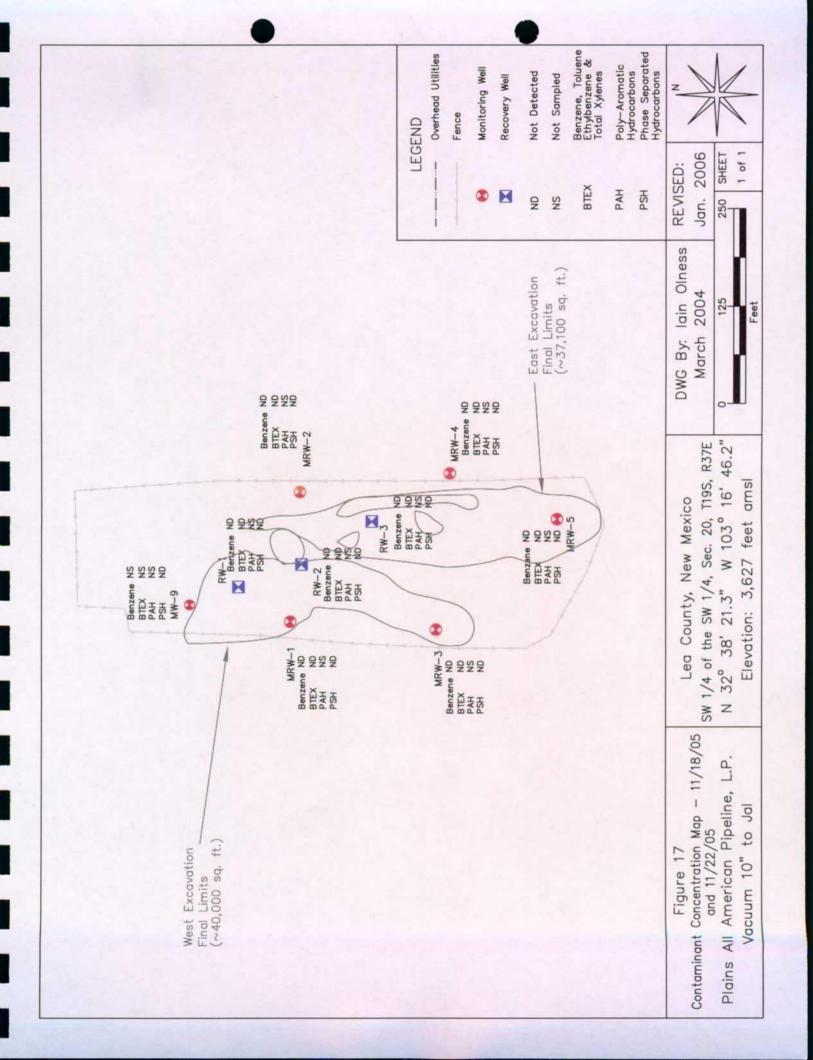
Figure 12: Hydrograph for Plains All American Pipeline Vacuum 10" to Jal Monitoring Well Network, Lea County, New Mexcio from 12/30/02 through 12/31/05.

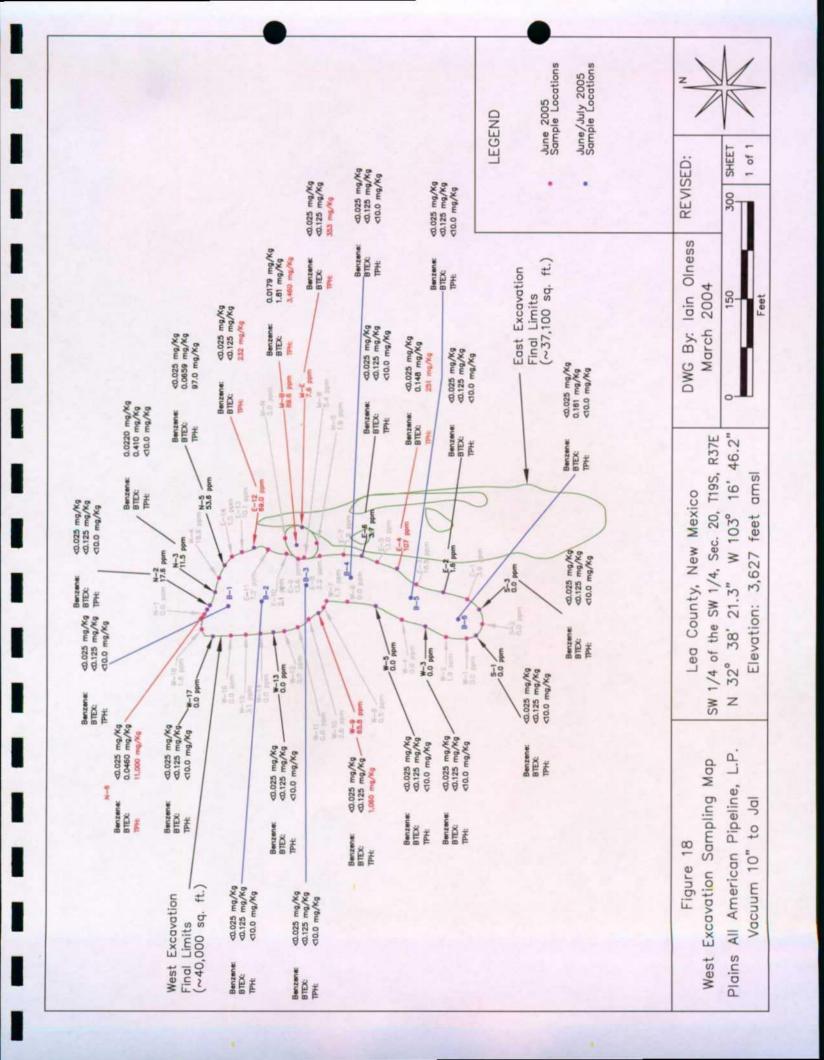


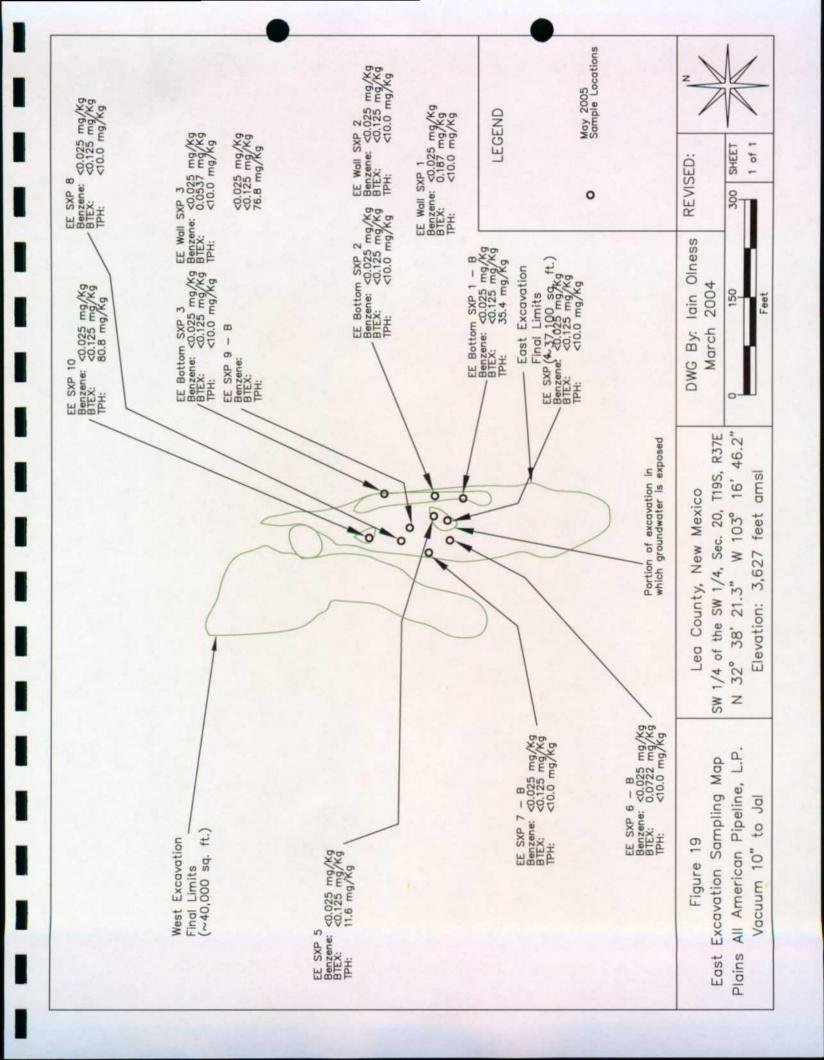












TABLES

Relative Groundwater Elevations and Phase Separated Hydrocarbon Thicknesses

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

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)*	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)**	Phase Separated Hydrocarbon Thickness (feet)
MRW-1	12/30/02	100.83	18.96	18.97	81.87	0.01
	01/02/03		18.96	18.97	81.87	0.01
	01/06/03		18.95	18.96	81.88	0.01
	01/13/03		Sheen	18.96	81.87	Sheen
	01/28/03			18.95	81.88	Directi.
	01/30/03			18.97	81.86	
	03/03/03		Sheen	18.94	81.89	Sheen
	03/25/03		Directi	10.24	01.05	Silecti
	06/16/03					
	06/24/03	- 11-1				
	07/10/03					
	08/12/03					
	11/07/03					
	12/29/03			10.05	04.00	
	02/11/04		**	18.95	81.88	**
	03/03/04					
	03/24/04			18.93	81.90	
MRW-2	05/11/04		**	18.96	81.87	**
	06/11/04		***	18.98	81.85	
	07/08/04			19.00	81.83	2.5
	08/17/04			19.07	81.76	***
	09/13/04			19.02	81.81	
	10/06/04			12.32	88.51	**
	11/16/04			15.69	85.14	**
	12/10/04	(18.74	82.09	
	01/14/05	CONTRACTOR OF THE		19.07	81.76	
	02/21/05	Reservation.	THE VE	19.12	81.71	
	05/09/05			Not Gauged NA		
	11/18/05			Not Gauged NA		
	11/22/05			Not Gauged NA		
	12/30/02					
	01/02/03	100.71	22.48	22.49	78.23	0.01
	01/06/03			22.50	78.21	
	01/13/03	100	22	22.45	78.26	
	01/28/03			22.42	78.29	
	01/30/03			22.45	78.26	
	03/03/03			22.41	78.30	
	03/25/03			10000	7,000	
	06/16/03			10. 74. 11.		
	06/24/03					
	07/10/03					
	08/12/03					
	11/07/03			2000		
	12/29/03					
				24.75	25.04	
	02/11/04			24.75	75.96	
	03/03/04			24.00	76.00	
	03/24/04	1000	***	24.65	76.06	
	05/11/04			24.81	75.90	
	06/11/04			24.87	75.84	
	07/08/04		1 22	24.85	75.86	
	08/17/04			24.82	75.89	77
	09/13/04			24.80	75.91	6.5
	10/06/04			15.61	85.10	
	11/16/04			20.60	80.11	

Relative Groundwater Elevations and Phase Separated Hydrocarbon Thicknesses

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

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)*	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)**	Phase Separated Hydrocarbon Thickness (feet)	
MRW-2	12/10/04		**	19.75	80.96		
(cont.)	01/14/05	THE STATE OF THE S		22.80	77.91	515	
	02/21/05		Bha ne	23.82	76.89	-	
	05/09/05		**	24.41	76.30		
	11/18/05			Not Gauged			
	11/22/05		1000	26.07	74.64	**	
MRW-3	12/30/02						
	01/02/03	100.38	16.83	16.84	83.54	0.01	
	01/06/03			16.73	83.65	4.4	
	01/13/03			16.80	83.58		
	01/28/03		Sheen	16.82	83.56		
	01/30/03			16.84	83.54		
	03/03/03			16.82	83.56	**	
	03/25/03						
	06/16/03						
	06/24/03	- CT 33 V		1 11 11			
	07/10/03				- A V		
	08/12/03						
	11/07/03			No. of the Late			
	12/29/03						
	02/11/04			18.83	81.55		
	03/03/04			7.000	1,500,000		
	03/24/04			18.81	81.57		
	05/11/04			18.52	81.86		
	06/11/04			18.73	81.65		
	07/08/04			18.77	81.61		
	08/17/04			18.83	81.55		
	09/13/04			18.85	81.53		
	10/06/04	E TOTAL		12.85	87.53	**	
	11/16/04			18.03	82.35		
	12/10/04			18.24	82.14		
	01/14/05	THE PERSON	10 Elec 14	18.70	81.68	100000	
	02/21/05	STREET, STREET	2.	18.88	81.50		
	05/09/05			Not Gauged NA	01210		
	11/18/05			Not Gauged NA			
	11/22/05	Not Gauged NA Not Gauged NA					
MDWA			-	1101 Gaugeu			
MRW-4	12/30/02 01/02/03	99.65		10.53	90.12		
	01/02/03	99.03		19.53	80.12		
	01/06/03			19.55 19.54	80.10		
	01/13/03			19.54	80.11 80.13	35 10	
				1000000	11,100,000		
				10.54			
	01/30/03			19.54	80.11		
	01/30/03 03/03/03			19.54 19.55	80.10		
	01/30/03 03/03/03 03/25/03		**		to the second		
	01/30/03 03/03/03 03/25/03 06/16/03		-		to the second		
	01/30/03 03/03/03 03/25/03 06/16/03 06/24/03				to the second		
	01/30/03 03/03/03 03/25/03 06/16/03 06/24/03 07/10/03				to the second	**	
	01/30/03 03/03/03 03/25/03 06/16/03 06/24/03 07/10/03 08/12/03				to the second		
	01/30/03 03/03/03 03/25/03 06/16/03 06/24/03 07/10/03 08/12/03 11/07/03				to the second		
	01/30/03 03/03/03 03/25/03 06/16/03 06/24/03 07/10/03 08/12/03 11/07/03 12/29/03			19.55	80.10	**	
	01/30/03 03/03/03 03/25/03 06/16/03 06/24/03 07/10/03 08/12/03 11/07/03 12/29/03 02/11/04				to the second		
	01/30/03 03/03/03 03/25/03 06/16/03 06/24/03 07/10/03 08/12/03 11/07/03 12/29/03			19.55	80.10		

TABLE 1

Relative Groundwater Elevations and Phase Separated Hydrocarbon Thicknesses

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

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)*	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)**	Phase Separated Hydrocarbon Thickness (feet)
MRW-4	06/11/04		**	22.41	77.24	**
(cont.)	07/08/04			22.43	77.22	**
200	08/17/04			22.45	77.20	
	09/13/04	100	22	22.40	77.25	**
- 713	10/06/04		4.4	14.60	85.05	44
	11/16/04			20.57	79.08	
	12/10/04		5.5	19.46	80.19	**
	01/14/05	37 37 5	++	22.24	77.41	10 25 1
	02/21/05	V. S. Carlot	44	22.52	77.13	
	05/09/05		4.4	22.61	77.04	
	11/18/05			Not Gauged		
	11/22/05		**	22.98	76.67	** 7
MRW-5	12/30/02					
	01/02/03	91.27		12.97	78.30	
	01/06/03			12.98	78.29	
	01/13/03			13.00	78.27	
	01/28/03			12.88	78.39	
	01/30/03			13.00	78.27	**
	03/03/03			18.87	72.40	
	03/25/03	The Park				
	06/16/03					
	06/24/03					
	07/10/03					
	08/12/03					
	11/07/03					
	12/29/03					
	02/11/04		44	13.03	78.24	
1.1	03/03/04					
	03/24/04			13.01	78.26	
	05/11/04			12.81	78.46	
	06/11/04			12.96	78.31	
	07/08/04			13.00	78.27	
	08/17/04			13.02	78.25	
	09/13/04			13.05	78.22	
	10/06/04			Gauged Due To Floor		
	11/16/04			12.23	79.04	**
	12/10/04			11.88	79.39	
	01/14/05	Contract of	A 100 CO	13.00	78.27	1 0 22 0
	02/21/05	FRED.	1	13.14	78.13	
	05/09/05		**	13.22	78.05	
	11/18/05			Not Gauged	10.05	
	11/22/05	THE RESIDENCE	100	12.88	78.39	
RW-1	12/30/02			12.00	3 4007	
KII-I	01/02/03	100.00	122	19.04	80.96	
41.75	01/06/03	1507507	18.76	18.79	81.24	0.03
	01/13/03		18.20	18.30	81.79	0.03
	01/13/03	- 1	18.11	18.21	81.88	0.10
	01/28/03		10.11	10.21	01.00	0.10

Relative Groundwater Elevations and Phase Separated Hydrocarbon Thicknesses

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

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)*	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)***	Phase Separate Hydrocarbon Thickness (feet
RW-1	03/03/03		18.05	18.20	81.94	0.15
(cont.)	03/25/03		18.10	18.15	81.90	0.05
- 5,0	06/16/03		18.04	18.05	81.96	0.01
	06/24/03		18.05	18.06	81.95	0.01
	07/10/03		18.06	18.07	81.94	0.01
	08/12/03		18.07	18.08	81.93	0.01
	11/07/03		18.04	18.10	81.95	0.06
	12/29/03		18.05	18.10	81.95	0.05
	02/11/04			314		
	03/03/04		18.04	18.10	81.95	0.06
	03/24/04		18.21	18.22	81.79	0.01
	05/11/04		18.09	18.11	81.91	0.02
	06/11/04			18.18	81.82	Sheen
- (1)	07/08/04			18.14	81.86	Sheen
	08/17/04			18.10	81.86	Sheen
	09/13/04	17.		18.20	81.90	Sheen
- S- 1	10/06/04	27 7	Skim	13.30	86.70	Sheen
	11/16/04			17.73	82.27	Sheen
	12/10/04			17.91	82.09	Sheen
	01/14/05	SALES OF STREET		18.21	81.79	
	02/21/05	44 100 100		18.33	81.67	
	05/09/05			18.68	81.32	
	11/18/05	Mary Mary Street	JAMES AND ADDRESS OF THE PARTY	Not Gauged NA	01:52	THE PERSON NAMED IN
	11/22/05			Not Gauged NA		
RW-2	12/30/02			Title Guagea		
K.II-2	01/02/03	99.27	17.02	17.03	82.25	0.01
	01/06/03	22.47	Sheen	19.08	80.19	Sheen
	01/13/03		Succii	16.01	83.26	Sheen
	01/28/03			16.03	83.24	**
	01/30/03			1000000	52(8)(1)(5)(6)	
	03/03/03			16.01	83.26	-
- 1 -				16.07	83.20	••
	03/25/03					
	06/16/03				7 T T T T	
	06/24/03					
	07/10/03			en ex.		
	08/12/03					
	11/07/03					
	12/29/03					
	02/11/04	() () () () () ()		21.20	78.07	**
	03/03/04	to true 1		V2-22	20.00	
	03/24/04	- 14 -		18.36	80.91	**
	05/11/04			18.40	80.87	
	06/11/04		***	18.53	80.74	
	07/08/04		**	18.57	80.70	2.5
	08/17/04			18.56	80.71	
	09/13/04		**	18.48	80.79	
	10/06/04			13.75	85.52	
15 . 0	11/16/04			17.66	81.61	
	12/10/04		2.5	17.80	81.47	4.7
-	01/14/05	Sile Str	44	18.49	80.78	100000
	02/21/05	PER STATE	44	18.57	80.70	
	05/09/05			16.68	82.59	**
	11/18/05			Not Gauged NA		I SISWIE
	11/22/05			Not Gauged NA		

TABLE 1

Relative Groundwater Elevations and Phase Separated Hydrocarbon Thicknesses

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

Monitor Well	Date Gauged	Relative Top of Casing Elevation (feet)*	Depth to PSH Below Top of Casing (feet)	Depth to Water Below Top of Casing (feet)	Corrected Relative Groundwater Elevation (feet)**	Phase Separated Hydrocarbon Thickness (feet)
RW-3	12/30/02					
	01/02/03	98.10		19.45	78.65	**
	01/06/03			18.89	79.21	**
	01/13/03		**	23.74	74.36	
	01/28/03		**	18.81	79.29	
	01/30/03		**	23.74	74.36	
	03/03/03			18.90	79.20	
1.74	03/25/03	- 1.				
	06/16/03					
1112	06/24/03					
	07/10/03					
	08/12/03					
	11/07/03					
	12/29/03			11-11-1		
	02/11/04			21.26	76.84	**
	03/03/04					
	03/24/04		44	21.04	77.06	**
	05/11/04		200	20.74	77.36	400
	06/11/04		4.9	20.91	77.19	
	07/08/04			20.86	77.24	
	08/17/04		**	20.92	77.18	**
	09/13/04		**	21.00	77.10	
	10/06/04		4.0	13.60	84.50	
	11/16/04			18.85	79.25	
	12/10/04		**	17.42	80.68	4.6
	01/14/05	The state of	300	20.14	77.96	-
	02/21/05		4-	20.69	77.41	
	05/09/05			Not Gauged NA		
	11/18/05			Not Gauged NA		J. C. College
	11/22/05			Not Gauged NA		
MW-9	01/14/05					
	02/21/05					
	05/09/05		Well installed 9	/16/05; Casing elevati	on not surveyed	
	09/20/06			27.60		
1000	11/28/05	THE SHAPE	Park Town	Not Gauged	FOR THE P	E ESTERNI
	11/22/05			Not Gauged	OF THE LOCAL PROPERTY.	

Blank cells indicate well was not gauged

Gray shaded cells indicate well was gauged

Yellow shaded cells indicate samples were collected

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

TABLE 2

Summary of Groundwater Analytical Results - BTEX and TPH

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

Monitor Well Location	Date	Benzene (#g/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m,p-Xylenes	o-Xylene	Total Xylenes	(as gasoline)	(as diesel)	Total TPH (mg/L)
MRW-1	30-Jan-03	>	>	>	>	> >		5	9	<10
	3-Mar-03	>	 	1>	□			NA	NA	NA
	11-Feb-04	>	->	>	2	>		NA	NA	NA
	17-Aug-04	>	>	>	2	~		NA	NA	NA
	9-May-05		>	>	77	>	7	NA	NA	NA
	22-Nov-05	<1	l>	I>	2		5	NA	NA	NA
MRW-2	30-Jan-03	P	1>	>	1>	4.71		5	\$	01>
	3-Mar-03	>	~	>	->	>		NA	NA	NA
	11-Feb-04	~	>	>	2	- -		NA	NA	NA
	17-Aug-04	>	1>	>	2	>		NA	NA	NA
	9-May-05	1>	>		2	\rac{1}{2}		NA	NA	NA
	18-Nov-05		-	1>	2			NA	NA	AN
MRW-3	30-Jan-03	>	>	>	>	~		\$>	\$	<10
	3-Mar-03	>	~	1>	>	 		NA	NA	NA
	11-Feb-04	>	1>	>	42	</td <td></td> <td>NA</td> <td>NA</td> <td>NA</td>		NA	NA	NA
	17-Aug-04	>	1>	<	2	>		NA	NA	NA
	9-May-05	<1		- I>	2			NA	NA	NA
	18-Nov-05	>		>	2	<1		NA	NA	NA
MRW-4	30-Jan-03	>	>	>	>	- - -		\$	5	<10
	3-Mar-03	>	1>	>	>			NA	NA	NA
	11-Feb-04		<1	</td <td>2</td> <td>- -</td> <td></td> <td>NA</td> <td>NA</td> <td>NA</td>	2	- -		NA	NA	NA
	17-Aug-04		1>	<1	2	-		NA	NA	NA
	9-May-05	>	>		42			NA	NA	NA
	18-Nov-05		<	<1	4	>		NA	NA	NA
MRW-5	30-Jan-03	[>	>		>	>		\$>	9	01>
	3-Mar-03		<1	 -		▽		NA	NA	NA
	11-Feb-04	>	>	<	2	>		NA	NA	NA
	17-Aug-04	>	>	>	22	~		NA	NA	NA
	9-May-05				42	>		NA	NA	NA
	18-Nov-05	-	<1	<1	42	P	۱	NA	NA	NA
RW-1	30-Jan-03			Not sa	sampled due to the p	resence of phas	e separated hydrocarbons	arbons		
	3-Mar-03			Not sa	mpled due to the	rresence of phas	Not sampled due to the presence of phase separated hydrocarbons	arbons		
	11-Feb-04			Not sa	mpled due to the	resence of phas	e separated hydroc	arbons		
	17-Aug-04			Not sa	mpled due to the	to the presence of phase	phase separated hydrocarbons	arbons		
	9-May-05		The second second	The state of the s		Not sampled	The said of	THE REAL PROPERTY.		STATE OF THE PARTY
	20 NOW 05	>	>	>	0	-	7	VV	VIX	N.V.

TABLE 2

Summary of Groundwater Analytical Results - BTEX and TPH

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

Monitor Well	Date	Benzene	Toluene	Ethylbenzene	m,p-Xylenes	o-Xylene	Total Xylenes	TPH (as gasoline)	TPH (as diesel)	Total TPH
Location		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(mg/L)	(mg/L)	(mg/L)
RW-2	30-Jan-03	8.22	▽	₽	1111	1.14	2.25	\$.<	<10
	3-Mar-03	1.56	>	>	>	>	77	NA	NA	NA
	11-Feb-04	>	1>	P	2	>	83	NA	NA	NA
	17-Aug-04		~	~	2	<	8	NA	NA	NA
	9-May-05		>	>	2		8	NA	NA	NA
	22-Nov-05	>			2		8	NA	NA	NA
RW-3	30-Jan-03	>	>	>	1>		2	\$	\$	<10
	3-Mar-03	>	<1>	1>	1>	1>	2	NA	NA	NA
	11-Feb-04	>	-1>	>	2	>	<3	NA	NA	NA
	17-Aug-04	>	1>	1>	2	<1	8	NA	NA	NA
	9-May-05	<1	>	>	2	<	8	NA	NA	NA
	18-Nov-05		- 1>		2	<1	8	NA	NA	NA
6-WM	30-Jan-03									
	3-Mar-03									
	11-Feb-04									
	17-Aug-04									
	9-May-05	THE RESERVE TO SERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLU	THE PERSON NAMED IN	THE RESERVE TO SERVE THE PARTY OF THE PARTY	Monito	Monitor well installed 9-16-05	9-16-05		The State of the State of	
	20-Sep-05	2.8	8.54	3.35	6.5	2.23	8.73	NA	NA	NA
	18-Nov-05	The second second	10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The state of the s	THE REAL PROPERTY.	Not Sampled				The same of
NMOCD Reme	NMOCD Remedial Thresholds	10	750	750			620			

⁷ Bolded values are in excess of the NMOCD Remediation Thresholds ⁸ NA: Not Sampled ⁹ NS: Not Sampled

TABLE 3

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

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

			_	_	_				_	
Benzo[g,h.i]-perylene (µg/L)	<10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Dibenz[a,h]-anthracene (µg/L)	<10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
ənəryq-[bɔ-ɛ,2,1]onəbnl ("I\gu)	<10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Benzo[a]-pyrene (µg/L.)	<10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.70
Benzo[j,k]-fluoranthene (µg/L)	<10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Benzo[b]-fluoranthene (µg/L)	<10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Chrysene (µg/L)	<10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
(hg/L) Benzo[a]-anthracene	<10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Pyrene (µg/L)	<10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Fluoranthene (µg/L)	<10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Апthгасепе (Дец)	<10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Рћепапtћгепе (Дуц)	<10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Flourene (AgA)	<10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Acenapthene (Light)	<10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Acenapthylene (µg/L)	<10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
Napthalene (A/g4)	<10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	30
Date	30-Jan-03	17-Aug-04	edial Thresholds							
Monitor Well ID	MRW-1		MRW-2	MRW-3	MRW-4	MRW-5	RW-1	RW-2	RW-3	MOCD Remedial

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

TABLE 4

Summary of Groundwater Sampling Recommendations

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

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

TABLE 5

Summary of Soil Analytical Results

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

MOON MADERATION IS	Sample Date	Field Analyses	Benzene	Toluene	Ethylbenzene	m.p-Xylenes	o-Xylene	Total BTEX	(as easoline)	(as diesel)	Total TPH
CHEVIOUS CONTRACTOR		(mdd)	(HEPKE)	(Hg/Kg)	(µg/Kg)	(ug/Kg)	(µg/Kg)	(µg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
SELEVIUE COUPMINES W	25-Feb-04	1	<20	312	1,920	2,910	1,800	6,942	809	18,400	19,008
SLEV1022504W-ESW	25-Feb-04		<20	<20	<20	<40	<20	<120	5	<2.5	<7.5
SLEV1022504W-WSW	25-Feb-04	1	<20	<20	<20	<40	<20	<120	Ş	7.31	7
SLEV1022504W-SESW	25-Feb-04	1	<20	<20	<20	<40	<20	<120	5	<2.5	<7.5
SLEV1022504W-SBH	25-Feb-04	1	<20	<20	<20	<40	<20	<120	5	<2.5	<7.5
SLEV1022504W-SWSW	25-Feb-04	1	<20	52	177	205	396	830	106	3,690	3,796
SLEV1022504W-NBH	25-Feb-04	-	<20	<20	<20	<40	<20	<120	179	8,690	8,869
SLEV1022504W-NWSW	25-Feb-04	1	<20	<20	<20	<40	<20	<120	9	<2.5	<7.5
SLEV1022504E-NWSW	25-Feb-04	ī	<20	<20	<20	<40	<20	<120	7.15	1,980	1,987
SLEV1022504E-SBH	25-Feb-04	1	<20	<20	<20	<40	<20	<120	\$	4.78	5
SLEV1022504E-WSW	25-Feb-04	1	<20	<20	<20	<40	<20	<120	5	42.5	<7.5
SLEV1022504E-NBH	25-Feb-04	1	<20	181	692	1,270	714	2,934	337	9,640	9,977
SLEV1022504E-NESW	25-Feb-04	1	<20	<20	34.4	47	168	249	136	6,580	6,716
SLEV1022504W-SWSW	25-Feb-04	1	<20	<20	<20	<40	<20	<120	<5	42.5	<7.5
SLEV1022504W-SESW	25-Feb-04	1	<20	<20	<20	<40	<20	<120	9	13.3	13
EE Bottom SXP 1	5-May-05	1	55	26.8	38.2	209	49	323	208	2,170	2,378
EE Bottom SXP 1- B	17-May-05	1	55	525	55	<25	425	<125	<10.0	35,4	35,4
EE Wall SXP1	5-May-05	1	25	15°	37.2	97.3	37.6	187	<10.0	<10.0	<10.0
EE Bottom SXP 2	5-May-05	-	<25	425	<25	<25	<25	<125	<10.0	<10.0	<10.0
EE Wall SXP 2	5-May-05	1	<25	<25	<25	<25	425	<125	<10.0	<10.0	<10.0
EE Bottom SXP 3	5-May-05	1	<25	<25	<25	425	25	<125	<10.0	<10.0	<10.0
EE Wall SXP 3	5-May-05	1	<25	<25	<25	53.7	425	53.7	<10.0	<10.0	<10.0
EE SXP 4	5-May-05	-	<25	425	<25	<25	<25	<125	<10.0	<10.0	<10.0
EE SXP 5	5-May-05	1	25	525	<25	<25	25	<125	<10.0	11.6	11.6
EE SXP 6	5-May-05	-	55	<25	<25	62.9	<25	62.9	12.1	181	193
EE SXP 6 - B	17-May-05	-	<25	<25	<25	44.1	28.1	72.2	<10.0	<10.0	<10.0
EE SXP 7	S-May-05	1	<25	<25	<25	46.0	425	46.0	6.88	139	130
EE SXP 7 - B	17-May-05	1	<25	<25	<25	<25	<25	<125	<10.0	<10.0	<10.0
EE SXP 8	5-May-05	1	<25	<25	425	<25	<25	<125	<10.0	≥99.6	<10.0
EE SXP 9	5-May-05	1	<25	<25	435	<25	425	<125	86.4	879	965
EE SXP - 9	17-May-05	1	<25	<25	<25	<25	<25	<125	<10.0	76.8	76.8
EE SXP 10	5-May-05	-	<25	425	<25	45.0	<25	<125	7,43°	80.8	80.8
WEST	23-Jun-05 A	00	200	500	255	228	205	<125	<10.0	<10.0	<10.0
" Com	5-Jul-05 B										
WE S-2	23-Jun-05	0.0	*	100	1			村	2	*	1
WE S 3	23-Jun-05 ^	00	30	25	Š	200	20	2017	001	~100	-100
WE 3-3	5-Jul-05 "		-				-	-	1	-	2001
WE W-1	23-Jun-05	0.0	-		1	*		7		4	-
WE W-2	23-Jun-05	1.9	*	1	1	*	**	1	1		* 5000
WE W.	23-Jun-05 ^	00	20	30	25	20	30	2617	~100	~100	7100
WE W-3	5-Jul-05 ⁸	-	1					-	210.0	210.0	10.0

TABLE 5
Summary of Soil Analytical Results

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

Sample ID	Sample Date	Field Analyses (PID)	Benzene	Toluene	Ethylbenzene	m.p-Xylenes	o-Xylene	Total BTEX	(as gasoline)	TPH (as diesel)	Total TPH
		(uxdd)	(µg/Kg)	(µg/Kg)	(µg/Kg)	(µg/Kg)	(µg/Kg)	(ug/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
WE W-4	23-Jun-05	0.0	4	*	-	1	1		1		+
WF W.s	23-Jun-05 ^A	00	36	36	35	20	25	5612	<10.0	<10.0	<10.0
	S-Jul-05 B	0.0	7	3)))		-		-
WE W-6	23-Jun-05	0.0	1	+	*	1	1	-	#		
WE W-7	23-Jun-05	1.7		4	-		-			-	-
WE W-8	23-Jun-05	0.5	1	1	*	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4	- Total		1
WE W-9	23-Jun-05 ^A 5-Jul-05 ^B	8.59	8	525	25	25	8	<125	<10.0	1,060	1.060
WE W-10	23-Jun-05	2.6	1	-		-	1	1	1	1	1
WE W-11	23-Jun-05	0.0	1	1	1	1	1	1		1	
WE W-12	23-Jun-05	0.0	1	+		1.	1	10	1000	-	
WE W-13	23-Jun-05 A 5-Iul-05 B	0.0	59	<25	25	205	25	<125	<10.0	<10.0	<10.0
WE W-14	23-Jun-05	0.0	1	75	1	1	-	1		-	1
WE W-15	23-Jun-05	3.1	1	2		1	1			1	
WE W-16	23-Jun-05	0.0	1	1	-		4	1		-	THE REAL PROPERTY.
WF W-17	23-Jun-05 A	00	25	925	925	255	425	<125	<10.0	<10.0	<10.0
	5-Jul-05 ^B	200	-	-							
WE W-18	23-Jun-05	1.8	1	1		:	1	1	1	7	1
WE N-1	23-Jun-05	0.0	1	1	*	*	- No. of the last		-	1	-
WE N-2	23-Jun-05 ^A 5-Jul-05 ^B	17.6	\$	25	95	<25	425	<125	<10.0	<10.0	<10.0
WEN-3	23-Jun-05 ^A 5-Jul-05 ^B	11.5	22.0°	55.6	22.8 ^C	722	32.5	360	<10.0	<10.0	<10.0
WE N-4	23-Jun-05	16.9	*		-	1	1	1	1	The state of the s	
WIT N. S.	23-Jun-05 A	20	36	36	36	0.59	36	0 37	2000	0.70	0.70
WE IN-3	5-Jul-05 B	2000	3	9	9	600	9	6770	1.30	21.0	27.0
WEN-6	12-Jul-05 B	-	<25	<25	425	46.0	55	46.0	645	10,400	(0007)
WEEL	23-Jun-05	3.9	-	-		1			1	1	1
WE E-2	23-Jun-05 ° 5-Jul-05 B	97	83	55	<25	25	8	<125	<10.0	<10.0	<10.0
WE E-3	23-Jun-05	18.5									
1	23-Jun-05 A		300	200	2000	0.00	200	200	0.47		
WEE4	5-Jul-05 B	100	9	5.00	24.5	93.0	(7)	148	17.0	234	151
WE E-5	23-Jun-05	13.0	*	*	1		-	-	-	1	1
WE E-6	23-Jun-05 ^A 5-Jul-05 ^B	3.7	8	89	425	8	53	<125	<10.0	<10.0	<10.0
WE E.7	23-Jun-05	1.9	-		-	1	:	1	1	1	1
WE E-8	23-Jun-05	2.2			*	-	-				1

TABLE 5

Summary of Soil Analytical Results

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

		Field Analyses	Ranzana	Tolnana	Erholhamana	m n. Vulanas	o. Yulana	Total RTEX	TPH	HdT	Total TPH
Sample ID	Sample Date	(PID)	Dentedic	Contractor	Leny Denizenie	mq- oynenes	orayiciic	COLO IRON	(as gasoline)	(as diesel)	10,11
		(take)	(µg/Kg)	(µg/Kg)	(pg/Kg)	(µg/Kg)	(µg/Kg)	(pg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
WE E.9	23-Jun-05	13.6	1	**	1	1		-	*	3	1
WE E-10	23-Jun-05	2.1	1	-	1		1		4	100	-
WEE-11	23-Jun-05	7.2	-	-	-	1	1	-	-	1	The Parties of
WE E 12	23-Jun-05 A	10 107	30	35.	36	75	35	3617	-100	0017	000
WELFTE	5-Jul-05 ⁸	000	9	9	9	9	9	CID	C10.0	210.0	C10.0
WEE-13	23-Jun-05	10.1	1	.2	1	**	1	-	1	1	-
WEE-14	23-Jun-05	1.5	-	1		1		-	1	1	1
WE M-N	23-Jun-05	3.0	1	1	1	1	1	-	-		-
WE ME	23-Jun-05 A	31	25	200	35	35	36	3617	0017	151	353
WE ME	5-Jul-05 #	0.7	9	9	9	9	9	95	C10.0	223	200
WE M-S	23-Jun-05	1.9	1	1	1	-	**	1	1	1	1
WE M-W	23-Jun-05	5.4	-	-			-	-		*	
WE M D	23-Jun-05 A	4 2 2	2000	00.3	171	1010	630	1 810	Orc	0000	2 100
WE MED	5-Jul-05 ^B	0220	611	04.2	101	1,010	223	Olo,1	04.7	3.440	25400
WE B-1	5-Jul-05	***	<25	<25	<25	<25	<25	<125	<10.0	<10.0	<10.0
WEB-2	5-Jul-05	-	225	<25	<25	425	<25	<125	<10.0	<10.0	<10.0
WE B-3	5-Jul-05	**	<25	<25	<25	<25	<25	<125	<10.0	<10.0	<10.0
WEB4	5-Jul-05	**	<25	<25	<25	<25	<25	<125	<10.0	<10.0	<10.0
WE B-5	5-Jul-05		<25	425	<25	425	<25	<125	<10.0	<10.0	<10.0
WE B-6	5-Jul-05	-	25	<25	20.0°	104	37.1	57.1	<10.0	<10.0	<10.0
NMOCD Remedial Thresholds	resholds		10,000					50,000			100

Bolded values are in excess of the NMOCD Remediation Thresholds

^{-- =} Not Analyzed

A Field analysis date

B Soil sample collection date

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

TABLE 6

Summary of Soil Boring Analytical Results

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

		Field	Dengan	Tolugae	Ethrilbonzone	V cm2	V.Jone	Total	TPH	TPH	Total TDU
Sample ID	Sample Date	Analyses	Delizelle	Tollarie	Euryroenzene	m,p-Ayienes	0-Aylelle	BTEX	(as gasoline)	(as diesel)	lotal IFFI
		(mdd)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
MW-9 (5')	16-Sep-05	21.4	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.125	<10.0	<10.0	<10.0
MW-9 (10')	16-Sep-05	17.1	<0.0250	<0.0250	<0.0250	0.0370	<0.0250	0.0370	<10.0	<10.0	<10.0
MW-9 (15')	16-Sep-05	13.6	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.125	<10.0	<10.0	<10.0
MW-9 (18')	16-Sep-05	9:01	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.125	<10.0	<10.0	<10.0
MW-9 (20')	16-Sep-05	8.4	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250	<0.125	<10.0	<10.0	<10.0
NMOCD Remedial Thresholds	Thresholds		10					20			100

APPENDICES

APPENDIX A

GROUNDWATER LABORATORY ANALYTICAL RESULTS

AND

CHAIN-OF-CUSTODY FORMS



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

Client: Environmental Plus, Inc.

Attn: Address: 2100 Ave. 0 Iain Olness

Eunice,

NM 88231

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

REPORT OF ANALYSIS

Phone:

Sample Name: LEV10"081704MRW5 Report#/Lab ID#: 167096 Project ID: 2002-10248 Report Date: 05/19/05

Sample Matrix: water

Date Received: 05/12/2005 **Time:** 13:00

Date Sampled: 05/09/2005 Time: 08:05

QUALITY ASSURANCE DATA

	Parameter Volatile organics-8260b/BTEX Benzene Ethylbenzene m,p-Xylenes	Result <	Units µg/L µg/L µg/L	RQL ⁵	Blank <1 <1 <2	Date 05/18/05 05/18/05 05/18/05 05/18/05		6 /5035)				Data Qual. 7 Prec. 2 R
	Benzene Ethylbenzene	Δ Δ	μg/L μg/L	1	<u> </u>	05/1 05/1	8/05 8/05		8260b 8260b	8260b 8260b	8260b 0.6 8260b 3.1	8260b 0.6 90.2 8260b 3.1 113.1
_	m,p-Xylenes	۵	μg/L	2	۵	05/18/	25		8260b	8260b	8260b 2.1	8260b 2.1 111.8
	o-Xylene	<u>^</u>	μg/L	-	Δ	05/18/05	/05	/05 8260b		8260b	8260b	8260b
	Toluene	Δ	μg/L	1	<u>^</u>	05/18/05	95	7/05 8260b		8260b	8260b 2.2 97.8	8260b 2.2
	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	ySys, Inc. The e	nclosed results tical results	1. Qual of the re	ity assurance da elative percent (ta is for the s %) difference		ample batch which include between duplicate measur	ample batch which included this sample. between duplicate measurements. 3. Reco	ample batch which included this sample. 2. Precision between duplicate measurements. 3. Recovery (Recovery)	ample batch which included this sample. 2. Precision (PREC) is between duplicate measurements. 3. Recovery (Recov.) is the per	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
	are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Convright 2003. AnalySys, Inc., Austin. TX. All rights reserved. No part of this	/Quality Control	Program. © part of this	recover	ed from a spike	d sample. it (%) recov	9.	 Calibration Verification erv of analyte from a known 	4. Calibration Verification (CCV) and Labert or mate	4. Calibration Verification (CCV) and Laboratory Cor	4. Calibration Verification (CCV) and Laboratory Control Sample erv of analyte from a known standard or matrix Seconting Ones.	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 Organization Limits
	publication may be reproduced or transmitted in any form or by any means without the	rm or by any mea	ms without the	(RQL),	typically at or	above the	Pra	Practical Quantitation Limit	Practical Quantitation Limit (PQL) of the ana	Practical Quantitation Limit (PQL) of the analytical meth	Practical Quantitation Limit (PQL) of the analytical method. 6. Met	(RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers
	express written consent of AnalySys, Inc.	Respectfully Submitted,	ubmitted,	typicall	y denote USEP.	A proced	lures.	lures. Less than ("<") values ref	lures. Less than ("<") values reflect nominal qua	ures. Less than ("<") values reflect nominal quantitation lin	lures. Less than ("<") values reflect nominal quantitation limits adjusted	typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required

Dale Wagner

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) than advisory limit. M = Matrix interference. recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher ion Limits any required numbers 'S) results are : (%) of analyte



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

Report#/Lab ID#: 167096 Sample Matrix: water

Attn: Client: Iain Olness Environmental Plus, Inc. Sample Name: LEV10"081704MRW5 **Project ID:** 2002-10248

REPORT OF SURROGATE RECOVERY

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

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

5

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21:251



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

Attn: Client: Iain Olness Environmental Plus, Inc.

Address: 2100 Ave. O

Eunice,

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

Phone:

NM 88231

REPORT OF ANALYSIS

Volatile organics-8260b/BTEX

Parameter

Result

Units

RQL⁵ Blank Date Method 6 QUALITY ASSURANCE DATA

05/12/2005 Time: 09:28 Time: 13:00 Sample Matrix: water

Date Received:

Sample Name: LEV10"081704RW-3

Project ID: 2002-10248 Report#/Lab ID#: 167097

Report Date: 05/19/05

Date Sampled: 05/09/2005

Data Qual. Prec. 2 Recov. 3 CCV4

LCS⁴

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 $\mu g/L$ $\mu g/L$

05/18/05 05/18/05 05/18/05

8260b 8260b 8260b 8260b

3.1

113.1 111.8

128.7

90.2

96.8 106.8

97.5

2.1

107.6 107.8

128

125.9

100.6

106.7

8260b

05/18/05

Δ

05/18/05

05/18/05

8260b(5030/5035)

 μ g/L

 $\mu g/L$

Dale Wagner

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



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

Environmental Plus, Inc.

| Project ID: 2002-10248 | Sample Name: LEV10"081704RW-3

Report#/Lab ID#: 167097
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Client: Attn:

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	8260b	9.66	74-124	
Toluene-d8	8260b	106	89-115	I

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

1



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

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

Eunice,

REPORT OF ANALYSIS

Phone:

(505) 394-3481

Volatile organics-8260b/BTEX

Parameter

Result

Units

RQL

Blank

05/18/05 Date

8260b(5030/5035)

8260Ь

113.1 111.8

106.8

128.7

111

125.9 106.7

128

100.6 107.8 107.6 90.2

96.8

97.5

8260b

Method 6

Data Qual.'

Prec. 2 Recov. 3

CCV⁴

LCS⁴

NM 88231

FAX: (505) 394-2601

Report#/Lab ID#: 167098 Report Date: 05/19/05

Project ID: 2002-10248

Sample Matrix: water Sample Name: LEV10"081704RW2

Date Received: 05/12/2005 **Time:** 13:00

Date Sampled: 05/09/2005 Time: 11:10

QUALITY ASSURANCE DATA

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o-Xylene m,p-Xylenes Ethylbenzene Benzene

 $\triangle \land \land \land \triangle$

 $\mu g/L$

 $\mu g/L$

 $1/g\eta$

05/18/05 05/18/05 05/18/05 05/18/05

8260b 8260b

8260b

05/18/05

 $\mu g/L$

 $\mu g/L$

Toluene

) Lie Dale Wagner

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



Attn: Client: Iain Olness Environmental Plus, Inc.

Sample Name: LEV10"081704RW2 Project ID: 2002-10248

Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits	Data Qualifiers
1,2-Dichloroethane-d4	40928	101	74-124	
Toluene-d8	8260b	105	89-115	!

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

3

;

2011222



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

Report Date: 05/19/05

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

Eunice,

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

NM 88231

REPORT OF ANALYSIS

Volatile organics-8260b/BTEX

Parameter

Result

Units

RQL⁵

Blank

Date

05/18/05 05/18/05

8260b(5030/5035)

Benzene

o-Xylene m,p-Xylenes Ethylbenzene

4444

 $\mu g/L$ $\mu \mathrm{g/L}$ $\mu g/L$ μg/L

444

05/18/05 05/18/05 05/18/05 05/18/05

> 8260b 8260b 8260b 8260b

> > 3.1 2.1

> > > 128.7

128

97.5

111.8 113.1 90.2

111

100.6 107.8 107.6 106.8 96.8

106.7 125.9 Δ

 $\mu g/L$

Toluene

Phone:

Time: 13:15

Date Sampled: 05/09/2005

Date Received: 05/12/2005 Time: 13:00 Sample Matrix: water

Sample Name: LEV10"081704MRW1

Project ID: 2002-10248 Report#/Lab ID#: 167099

Data Qual.⁷ | Prec. ² | Recov. ³ QUALITY ASSURANCE DATA 1

CCV⁴

LCS⁴

Method 6

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

Attn: Client: Iain Olness Environmental Plus, Inc.

Project ID: 2002-10248

Sample Name: LEV10"081704MRW1

Sample Matrix: water Report#/Lab ID#: 167099

REPORT OF SURROGATE RECOVERY

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

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

1



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

Client: Environmental Plus, Inc.

Address: 2100 Ave. O Attn: Iain Olness

Eunice,

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

NM 88231

Sample Matrix: water

Date Received:

05/12/2005

Date Sampled: 05/09/2005

Time: 10:21 Time: 13:00 Sample Name: LEV10"081704MRW3

Report#/Lab ID#: 167100

Report Date: 05/19/05

Project ID:

2002-10248

QUALITY ASSURANCE DATA

CCV⁴

LCS⁴

113.1 111.8

128.7

107.6 106.8

128

111

107.8 100.6

125.9 106.7

90.2

96.8

97.5

REPORT OF ANALYSIS m,p-Xylenes Volatile organics-8260b/BTEX publication may be reproduced or transmitted in any form or by any means without the Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this have been carefully reviewed and, to the best of my knowledge, the analytical results Toluene o-Xylene Ethylbenzene Benzene **Parameter** are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results Result Δ Units μg/L μg/L μg/L $\mu g/L$ $\mu g/L$ RQL 5 recovered from a spiked sample. . Quality assurance data is for the sample batch which included this sample. Blank A A A A A 05/18/05 05/18/05 05/18/05 05/18/05 05/18/05 05/18/05 Date 8260b(5030/5035) Method b 8260b 8260b 8260b 8260b 8260b Data Qual.' Prec. ²|Recov. ³ 3.1 2.1 0.6

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

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Respectfully Submitted,

Dale Wagner



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 Client:
 Environmental Plus, Inc.
 Project ID: 2002-10248

 Attn:
 Iain Olness

 Sample Name:
 LEV10"0

Project ID: 2002-10248

Sample Name: LEV10"081704MRW3

Report#/Lab ID#: 167100

Sample Matrix: water

REPORT OF SURROGATE RECOVERY

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

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

j



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

Client: Environmental Plus, Inc.

Address: 2100 Ave. O Attn: Iain Olness

Eunice,

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

Phone:

Sample Matrix: water

Date Sampled:

05/09/2005 05/12/2005

Time: 08:40 Time: 13:00

Date Received:

Sample Name: LEV10"081704MRW2

Report#/Lab ID#: 167101

Report Date: 05/19/05

Project ID: 2002-10248

NM 88231

REPORT OF ANALYSIS							QUALITY ASSURANCE DATA	SSURA	NCE DAT	A 1	
Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. ⁷ Prec. ² Recov. ³ CCV ⁴ LCS ⁴	Prec. ²	Recov. 3	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX					05/18/05	05/18/05 8260b(5030/5035)				-	}
Benzene	<u>^</u>	μg/L	1	^	05/18/05	8260b		0.6	90.2	96.8	97.5
Ethylbenzene	<u>^</u>	μg/L	-	<u>^</u>	05/18/05	8260b	-	3.1	113.1	106.8	128.7
m,p-Xylenes	۵	μg/L	2	۵	05/18/05	8260b		2.1	111.8	107.6	128
o-Xylene	Δ	μg/L	<u>,</u>	<u>^</u>	05/18/05	8260b	-	2.7	111	107.8	125.9
Toluene	۵	μg/L	1	_	05/18/05	8260b	1	2.2	97.8	100.6 106.7	106.7
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express written consent of AnalySys, Inc. 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. © publication may be reproduced or transmitted in any form or by any means without the Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results Respectfully Submitted,

Dale Wagner

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



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

Attn: Client: Iain Olness Environmental Plus, Inc.

Sample Name: LEV10"081704MRW2 Project ID: 2002-10248 Sample Matrix: water Report#/Lab ID#: 167101

REPORT OF SURROGATE RECOVERY

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

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

;

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

Attn: Client: Environmental Plus, Inc Iain Olness

Address: 2100 Ave. O

Eunice,

NM 88231

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

Phone:

REPORT OF ANALYSIS

Volatile organics-8260b/BTEX

Parameter

Result

o-Xylene m,p-Xylenes

Toluene

Ethylbenzene Benzene

 μ g/L $\mu g/L$ $\mu g/L$ $\mu g/L$ $\mu g/L$

<u>^ ^</u> ۵ Δ Δ

05/18/05 05/18/05

> 8260Ь 8260b 8260b

8260b

05/18/05 05/18/05 05/18/05

8260b

3.1 0.6

113.1 111.8

106.8

128.7

128

111

100.6 107.8 107.6

106.7 125.9 90.2

96.8

97.5

Report#/Lab ID#: 167102 **Project ID:** 2002-10248

Report Date: 05/19/05

Sample Name: LEV10"081704MRW4

Sample Matrix: water

Date Received: 05/12/2005 Time:

Date Sampled: 05/09/2005 Time: 12:45 13:00

QUALITY ASSURANCE DATA

LCS⁴

Units RQL 5 Blank 05/18/05 Date 8260b(5030/5035) Method 6 Data Qual.' Prec. ² Recov. ³ CCV⁴

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



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Sample Matrix: water Report#/Lab ID#: 167102

Attn: Client: Iain Olness Environmental Plus, Inc.

Sample Name: LEV10"081704MRW4

Project ID: 2002-10248

REPORT OF SURROGATE RECOVERY

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

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

20000

AnalySys Inc.
4221 Freidrich Lane, Suite 190, Austin, TX 78744
519-144-5896 FAY: 519-147-1766

2209 N. Padre Island Dr., Corpus Christi, TX 78408 Chain of Custody Form

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

Attn: Client: Iain Olness Environmental Plus, Inc

Address: 2100 Ave. O

Eunice,

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

REPORT OF ANALYSIS

Phone:

Parameter

Result

Units

RQL⁵

Blank

8260b(5030/5035)

8260b

Method 6

Data Qual."

Prec.

Recov. 3

CCV⁴

LCS⁴

3.35

 $\mu g/L$

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09/21/05 09/21/05 09/21/05 09/21/05 09/21/05 09/21/05 Date

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108.7

109.2

113.9

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104

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109.2 99.8

8260b

2.23 5.0 Volatile organics-8260b/BTEX

Benzene

Z Z 88231

Project ID: 2002-10248 Report#/Lab ID#: 171061 **Report Date: 09/26/05**

Sample Name: MW-9

Sample Matrix: water

Date Received: 09/20/2005 Time: 15:30

Date Sampled: 09/20/2005 Time: 14:45

QUALITY ASSURANCE DATA

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m,p-Xylenes Ethylbenzene

Toluene o-Xylene

126 Dale Wagner

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

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

Report#/Lab ID#: 171061
Sample Matrix: water

Attn: Client: Iain Olness Environmental Plus, Inc. Sample Name: MW-9 **Project ID:** 2002-10248

REPORT OF SURROGATE RECOVERY

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

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

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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

	Sampler Helinquished: Reimagnished by: Delivered by:		10	9	8	7	6	5	4	ယ	2	171061 1	LAB I.D.		EPI Sampler Name	Project Reference	Facility Name	Client Company	EPI Phone#/Fax#	City, State, Zip	Mailing Address	EPI Project Manager	Company Name
	Time 3. 3.0 Detay / 20/ 0 5 Time 8 0 Sample Yes											MW-9	SAMPLE I.D.		e George Blackburn	2002-10248	Vacuum 10" to Jal	Plains All American	505-394-3481 / 505-394-2601	Eunice New Mexico 88231	P.O. BOX 1558	ger lain Olness	Environmental Plus, Inc.
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	E-mail results to: iolness@envplus.net and cjreynolds@paalp.com REMARKS:											20-Sep-05	DATE	. SAMPLING	Midland, TX 79706	lighway 80	e Reynolds		S	and the second			To
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P2 1 of 1

Chain of Custody Form



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

Attn: Client: Iain Olness Environmental Plus, Inc.

Address: 2100 Ave. 0

Eunice,

Phone:

(505) 394-3481

FAX: (505) 394-2601

NM 88231

Project ID: 2002-10248 Vacuum 10" to Jal Report#/Lab ID#: 173950

Report Date: 12/05/05

Sample Name: RW-1

Sample Matrix: water

Date Sampled: 11/22/2005 Date Received: 11/23/2005 **Time:** 10:30 **Time:** 07:00

QUALITY ASSURANCE DATA

REPORT OF ANALYSIS							QUALITY ASSURANCE DATA	SSURA	NCE DAT	<u>A</u> 1	
Parameter	Result	Units	RQL ⁵	Blank	Date	Method 6	Data Qual. Prec. 2 Recov. 3 CCV4 LCS 4	Prec. 2	Recov. 3	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	-				12/01/05	8260b(5030/5035)			1		+
Benzene	<1	μg/L	1	<u>^</u>	12/01/05	8260b		3.3	100.9	105	103.3
Ethylbenzene	Δ	μg/L	1	Δ	12/01/05	8260b	-	7.8	109.7	117.2	111.2
m,p-Xylenes	۵	μg/L	2	۵	12/01/05	8260b	-	7.2	108.2	116.2	109.1
o-Xylene	Δ	μg/L	-	Δ	12/01/05	8260b	-	8.5	108	118.4	111
Toluene	Δ	μg/L	1	۵	12/01/05	8260b		6.6	108.8	115.7	112
This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc. Respectfully Submitted, Richard Elton	alySys, Inc. The enclawdedge, the analytic nowledge, the analytic ce/Quality Control Property of this reserved. No particularly Subraces Respectfully Subraces Richard Elton	nclosed results vicial results Program. © part of this us without the ibmitted,	1. Quali of the re recovers express (RQL), typically dilution associat recover;	1. Quality assurance data is for the sample batch of the relative percent (%) difference between dup recovered from a spiked sample. 4. Calibratio expressed as the percent (%) recovery of analyte (RQL), typically at or above the Practical Quant typically denote USEPA procedures. Less than ("dilutions. 7. Data Qualifiers are J = analyte pote associated method blank(s). S & S1 =MS and/or recovery exceeds advisory limit. S3 =MS and/or than advisory limit. M =Matrix interference.	ta is for the sa %) difference l %) difference l sample. d sample. t (%) recovery above the Pra above the Pra brocedures. lifiers are J = k(s). S & S1: cyr limit. S3 = Matrix interi	atch duy ratic lyte lyte uant an () pot d/or d/or	which included this sample. 2. Precision (PREC) is the absolute value plicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte in Verification (CCV) and Laboratory Control Sample (LCS) results are from a known standard or matrix. 5. Reporting Quantitation Limits ittation Limit (PQL) of the analytical method. 6. Method numbers "<") values reflect nominal quantitation limits adjusted for any required entially present between the PQL and the MDL. B =Analyte detected in MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) MSD and PDS recoveries exceed advisory limits. P =Precision higher	2. Precision very (Recovery (Recovery Cornatory Cornic, 5. Repytical methytical methytical in limit. Land the My limits. Sy limits. Seed advisory	n (PREC) is 1 NV.) is the perv NOI Sample Outing Quant nod. 6. Met nits adjusted 1 MDL. B = An MDL. B = An VIlmits. P = F	the absolute cent (%) of (LCS) resultation Lim hod numbe for any requalyte detection spike recision hi	e value analyte llts are ints irs irs ired inted in (PDS) gher

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

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

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits Date Anal:	Date Analyze	Data Qualifiers
I,2-Dichloroethane-d4	8260b	91.7	70-130	12/01/05	****
Toluene-d8	8260b	93.6	80-127	12/01/05	1
Data Dualificant D. Compositor diluted and V. Compositor diluted and V					

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

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

Attn: Client: Iain Olness Environmental Plus, Inc.

Address: 2100 Ave. 0

Eunice,

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

Phone:

NM 88231

Sample Matrix: water Sample Name: RW-2

Date Received:

11/23/2005

Time: 10:30

Report#/Lab ID#: 173951

Report Date: 12/05/05

Project ID: 2002-10248 Vacuum 10" to Jal

Date Sampled: 11/22/2005 OUALITY ASSURANCE DATA Time: 07:30

REPORT OF ANALYSIS							QUALITY ASSURANCE DATA	SSURA	NCE DAT	A 1	
Parameter	Result	Units	RQL ⁵	Blank	Date	Method 6	Data Qual. ⁷ Prec. ² Recov. ³ CCV ⁴ LCS ⁴	Prec. 2	Recov. 3	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	1		1		12/01/05	12/01/05 8260b(5030/5035)					į
Benzene	<u>^</u>	μg/L	-	<u>^</u>	12/01/05	8260b		3.3	100.9	105	103.3
Ethylbenzene	Δ	µg/L	_	Δ	12/01/05	8260b	-	7.8	109.7	117.2	111.2
m,p-Xylenes	۵	μg/L	2	۵	12/01/05	8260b		7.2	108.2	116.2	109.1
o-Xylene	Δ	μg/L		Δ	12/01/05	8260b	-	8.5	108	118.4	111
Toluene	۵	μg/L	1	^	12/01/05	8260b		6.6	108.8	115.7 112	112
This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results	Sys, Inc. The ewledge, the analy	nclosed results ytical results		ity assurance da	ta is for the sa %) difference	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	ed this sample.	2. Precision	n (PREC) is to v.) is the perc	he absolute cent (%) of	e value analyte
are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. ©	Quality Control	Program. ©	recover	recovered from a spiked sample.		4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are	n (CCV) and Labo	oratory Cor	itrol Sample	(LCS) resu	lts are

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 recovered from a spiked sample.

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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 associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) than advisory limit. M =Matrix interference. recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required



Client:

Environmental Plus, Inc. Iain Olness

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

Sample Matrix: water

Sample Name: RW-2 **Project ID:** 2002-10248 Vacuum 10" to Jal Report#/Lab ID#: 173951

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limits Date Anal	Date Analyze	Data Qualifiers
1,2-Dichloroethane-d4	8260b	89.5	70-130	12/01/05	-
Toluene-d8	8260b	93.2	80-127	12/01/05	1
Data Onalifiers: D= Surrogates diluted and X= Surrogates outside	advisory recovery liv	aite [
Data Qualifiers: D= Surrogates diluted and X= Surrogates outside advisory recovery limits	advisory recovery lin	nife		į	



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Attn: Client: Iain Olness Environmental Plus, Inc.

Address: 2100 Ave. O

Eunice,

M 88231

Phone: (505) 394-3481

REPORT OF ANALYSIS

FAX: (505) 394-2601

Date Sampled: Sample Matrix: water Sample Name: MRW-1 Date Received: 11/22/2005 11/23/2005 Time: 08:00 Time: 10:30

Project ID: 2002-10248 Vacuum 10" to Jal

Report#/Lab ID#: 173952

Report Date: 12/05/05

QUALITY ASSURANCE DATA

Parameter	Result	Units	RQL 5	Blank	Date	Method ⁶	Data Qual. Prec. 2 Recov. 3 CCV4 LCS 4	Prec. 2	Recov. 3	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX			1		12/02/05	12/02/05 8260b(5030/5035)	•		-	}	
Benzene	<u> </u>	$1/8\eta$	1	<u></u>	12/02/05	8260b	*	3.3	100.9	105	103.3
Ethylbenzene	۸	μg/L	1	Δ	12/02/05	8260b	l	7.8	109.7	117.2 111.2	111.2
m,p-Xylenes	۵	μg/L	2	۵	12/02/05	8260b		7.2	108.2	116.2 109.1	109.1
o-Xylene	<u>^</u>	μg/L	_	Δ	12/02/05	8260b	I	8.5	108	118.4	111
Toluene	- 4	μg/L	1	Δ	12/02/05	8260b	1	6.6	108.8	115.7	112
This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and to the best of my knowledge the analytical results	lySys, Inc. The e	enclosed results		1. Quality assurance data is for the sample bate of the relative percent (%) difference between d	ata is for the s	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 analysis.	h which included this sample. 2. Precision (PREC) is the absolute value in licate measurements. 3. Recovery (Recov.) is the percent (%) of analyse.	2. Precisio	n (PREC) is	the absolut	e value
are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. ®	e/Quality Control	Program. ©	recover	ed from a spike	d sample.	recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are	(CCV) and Lab	oratory Cor	ntrol Sample	(LCS) resu	lts are
Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this	its reserved. No	part of this	express	ed as the percer	nt (%) recover	expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits	standard or matr	ix. 5. Rep	porting Quan	titation Lin	uits
publication may be reproduced or transmitted in any form or by any means without the	rm or by any me	ans without the	_	typically at or	above the Pra	(RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers	(PQL) of the ana	lytical met	hod. 6. Mei	hod numbe	ž
express written consent of AnalySys, Inc.	Respectatily St	ubinitiea,		y denote USEP	A procedures.	typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required	lect nominal qua	ntitation lir	nits adjusted	for any requ	ired

(RQL), typically at of above the Fractical Quantitation Limit (rQL) of the analytical method. To, returnou numbers typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required dilutions. T. 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. its ılts are analyte e value

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Sample Matrix: water

Project ID: 2002-10248 Vacuum 10" to Jal Report#/Lab ID#: 173952

Sample Name: MRW-1

REPORT OF SURROGATE RECOVERY

Attn:

Iain Olness

Environmental Plus, Inc.

Client:

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

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

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j



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Client: Environmental Plus, Inc.

Address: 2100 Ave. O Attn: Iain Olness

Eunice,

ΧX 88231

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

Phone:

Date Sampled: 11/18/2005 Time: 17:15

Sample Matrix: water Sample Name: RW-3 Project ID: 2002-10248 Vacuum 10" to Jal

Report#/Lab ID#: 173953

Report Date:

12/05/05

Date Received:

11/23/2005

Time: 10:30

LCS⁴

108.2 102

109.3 109

98

REPORT OF ANALYSIS							QUALITY ASSURANCE DATA 1	SSURA	NCE DAT	Δ 1	
Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual. Prec. 2 Recov. 3 CCV4	Prec. ²	Recov. 3	CCV ⁴	
Volatile organics-8260b/BTEX					11/30/05	8260b(5030/5035)		1			
Benzene	<u>\</u>	T/BH	1	<u>^</u>	11/30/05	8260b		5.6	95.7	109.5	
Ethylbenzene	Δ	μg/L	_	<u>^</u>	11/30/05	8260b	1	3.1	109	111.8	
m,p-Xylenes	۵	$\mu g/L$	2	۵	11/30/05	8260b	1	1.3	105.3	112	
o-Xylene	Δ	$\mu g/L$		Δ	11/30/05	8260b	-	1.4	104.4	111.2	
Toluene	۵	μg/L	1	<u>^</u>	11/30/05	8260b	-	4.7	104.9 114.6	114.6	
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	lySys, Inc. The owledge, the anal	enclosed results ytical results	1. Qual of the re	 Quality assurance data is for the sample batch of the relative percent (%) difference between dup 	ta is for the sa %) difference	1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of	which included this sample. 2. Precision (PREC) is the absolute blicate measurements. 3. Recovery (Recov.) is the percent (%) of	2. Precision very (Reco	n (PREC) is t	he absolute ent (%) of	A
are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. ©	/Quality Control	Program. ©	recover	ed from a spike	d sample.	recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) result	n (CCV) and Labo	ratory Cor	itrol Sample	(LCS) resul	_
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	its reserved. No igm or by any me	part of this ans without the	(RQL),	ed as the percer typically at or	above the Pra	expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limit (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method number	standard or matr (PQL) of the anal	x. 5. Rep	orting Quant nod. 6. Met	itation Lim hod numbe	_ =
express written consent of AnalySys, Inc.	Kespectrully Submitted,	iomittea,	typicall	y denote USEP.	A procedures.	typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any requ	flect nominal quai	ıtitation lin	nits adjusted f	or any requ	_

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) than advisory limit. M =Matrix interference. recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher numbers .CS) results are nt (%) of analyte tion Limits absolute value

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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

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

REPORT OF SURROGATE RECOVERY

Client: Attn:

Surrogate Compound	Method	Recovery	Recovery Limits Date Analy	Date Analyze	Data Qualifiers
1,2-Dichloroethane-d4	8260b	88.6	70-130	11/30/05	-
Toluene-d8	8260b	100	80-127	11/30/05	1
Data Onalifiers: D- Correctors diluted and Y- Correctors outside advisors recovery limits	diiom rooman li				

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

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

Attn: Client: Iain Olness Environmental Plus, Inc

Address: 2100 Ave. O

Eunice,

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

Phone:

NM 88231

Project ID: 2002-10248 Vacuum 10" to Jal **Report#/Lab ID#:** 173954

Report Date: 12/05/05

Sample Name: MRW-2

Sample Matrix: water Date Received: 11/23/2005 **Time:** 10:30

Date Sampled: 11/18/2005 Time: 17:45

QUALITY ASSURANCE DATA

LCS⁴

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Respectfully Submitted, Toluene Ethylbenzene Volatile organics-8260b/BTEX are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © m,p-Xylenes Benzene Parameter express written consent of AnalySys, Inc. Copyright 2003, AnalySys, Inc., Austin, TX. All rights reserved. No part of this have been carefully reviewed and, to the best of my knowledge, the analytical results This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results Result Units $\mu g/L$ $\mu g/L$ $\mu g/L$ $\mu g/L$ μg/L RQL 5 recovered from a spiked sample. Quality assurance data is for the sample batch which included this sample. Blank 11/30/05 11/30/05 11/30/05 11/30/05 11/30/05 11/30/05 Date 8260b(5030/5035) Method 6 8260b 8260b 8260Ь 8260b 8260b Data Qual.' Prec. 5.6 Recov. 3 CCV⁴ 104.4 105.3 95.7 104.9 109 114.6 111.2 111.8 109.5

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109.3

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associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B =Analyte detected in expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of analyte than advisory limit. M =Matrix interference. recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher (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 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) results are 2. Precision (PREC) is the absolute value

Richard Elton

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

REPORT OF SURROGATE RECOVERY

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

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

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Client: Attn: Iain Olness Environmental Plus, Inc.

Address: 2100 Ave. 0

Eunice,

Phone:

(505) 394-3481

FAX: (505) 394-2601

Z 88231

Date Sampled: Date Received: 11/18/2005 11/23/2005 Time: **Time:** 10:30 18:00

Sample Matrix: water Sample Name: MRW-3 Project ID: 2002-10248 Vacuum 10" to Jal

Report#/Lab ID#: 173955

Report Date: 12/05/05

LCS⁴

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REPORT OF ANALYSIS							QUALITY ASSURANCE DATA 1	ASSURA	NCE DAT	<u>'A</u> 1
Parameter	Result	Units	RQL ⁵	Blank	Date	Method 6	Data Qual. ⁷ Prec. ² Recov. ³ CCV ⁴	Prec. 2	Recov. 3	CCV ⁴
Volatile organics-8260b/BTEX					11/30/05	8260b(5030/5035)		-		
Benzene	_	$\mu g/L$	1	[>	11/30/05	8260b		5.6	95.7	109.5
Ethylbenzene	Δ	7/B1/		<u>^</u>	11/30/05	8260b	•	3.1	109	111.8
m,p-Xylenes	۵	$\mu g/L$	2	۵	11/30/05	8260b	-	1.3	105.3	112
o-Xylene	Δ	$\mu \mathrm{g/L}$	-	Δ	11/30/05	8260b		1.4	104.4	111.2
Toluene	△	μg/L	-	<u></u>	11/30/05	8260b		4.7	104.9	114.6
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	lySys, Inc. The e owledge, the anal	enclosed results	1. Qual of the r	ity assurance da elative percent (nta is for the sa %) difference	1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute of the relative percent (%) difference between duplicate measurements. 3. Recovery (Recov.) is the percent (%) of	ed this sample.	2. Precisio overy (Reco	n (PREC) is to ov.) is the per	the absolute cent (%) of
are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. ©	e/Quality Control	l Program. ©	recove	ed from a spike	d sample.	recovered from a spiked sample. 4. Calibration Verification (CCV) and Laboratory Control Sample (LCS) resurresced as the percent (%) recovery of applying from a known standard or matrix.	n (CCV) and Lab	oratory Co	ntrol Sample	(LCS) resu
publication may be reproduced or transmitted in any form or by any means without the	rm or by any me	ans without the	(RQL)	typically at or	above the Pra	(RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method number	(PQL) of the ana	lytical met	hod. 6. Met	hod numbe
express written consent of AnalySvs. Inc.	respectatily of	מטוווונכת,	typical	ly denote USEP.	A procedures.	typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any requ	flect nominal qua	ntitation lir	nits adjusted	or any redi

Richard Elton

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. n Limits %) of analyte umbers results are solute value

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

Client: Attn: Iain Olness Environmental Plus, Inc. Sample Name: MRW-3 Project ID: 2002-10248 Vacuum 10" to Jal

Sample Matrix: water

REPORT OF SURROGATE RECOVERY

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

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

j

j



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Attn: Client: Iain Olness Environmental Plus, Inc.

Address: 2100 Ave. O

Eunice,

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

Z Z 88231

Sample Name: MRW-4

Report#/Lab ID#: 173956

Report Date: 12/05/05

Project ID: 2002-10248 Vacuum 10" to Jal

Sample Matrix: water

Date Sampled:

11/18/2005 11/23/2005

18:15 10:30

Time: Time:

Date Received:

REPORT OF ANALYSIS			:				QUALITY ASSURANCE DATA	SSURA	NCE DAT	A 1	
Parameter	Result	Units	RQL ⁵	Blank	Date	Method 6	Data Qual. Prec. 2 Recov. 3 CCV4 LCS 4	Prec. ²	Recov. 3	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX			-		11/30/05	11/30/05 8260b(5030/5035)	-			-	}
Benzene	>	μg/L	-	Δ	11/30/05	8260b	1	5.6	95.7	109.5	98
Ethylbenzene	Δ	μg/L	_	Δ	11/30/05	8260b	-	3.1	109	111.8	109.3
m,p-Xylenes	۵	$\mu g/L$	2	۵	11/30/05	8260b	-	1.3	105.3	112	109
o-Xylene	Δ	μg/L	-	Δ	11/30/05	8260b	1	1.4	104.4	111.2	108.2
Toluene	Δ	μg/L	1	۵	11/30/05	8260b		4.7	104.9	114.6	102
This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results	lySys, Inc. The	enclosed results	_	ity assurance da	ita is for the s	1. Quality assurance data is for the sample batch which included this sample. 2. Precision (PREC) is the absolute value	ed this sample.	2. Precisio	n (PREC) is t	the absolut	e value

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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 than advisory limit. M =Matrix interference. recovery exceeds advisory limit. S3 =MS and/or MSD and PDS recoveries exceed advisory limits. P =Precision higher associated method blank(s). S & S1 =MS and/or MSD recovery exceed advisory limits. S2 =Post digestion spike (PDS) dilutions. 7. Data Qualifiers are J = analyte potentially present between the PQL and the MDL. B = Analyte detected in typically denote USEPA procedures. Less than ("<") values reflect nominal quantitation limits adjusted for any required (RQL), typically at or above the Practical Quantitation Limit (PQL) of the analytical method. 6. Method numbers expressed as the percent (%) recovery of analyte from a known standard or matrix. 5. Reporting Quantitation Limits

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

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

REPORT OF SURROGATE RECOVERY

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

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 (512) 385-5886 • FAX (512) 385-7411 78408

Attn: Client: Environmental Plus, Inc Iain Olness

Address: 2100 Ave. O

Eunice,

(505) 394-3481 FAX: (505) 394-260:

Phone:

NM 88231

Sample Matrix: water Sample Name: MRW-5

Date Sampled: Date Received:

11/18/2005 11/23/2005

Time: 18:30 Time: 10:30 Report#/Lab ID#: 173957

Report Date: 12/05/05

Project ID: 2002-10248 Vacuum 10" to Jal

QUALITY ASSURANCE DATA

LCS⁴

11/30/05 11/30/05 11/30/05 Date 8260b(5030/5035) Method 6 8260b 8260b Data Qual. Prec. 2 Recov. 3 5.6 : 95.7 109 ţ CCV⁴ 111.8 109.5ŀ

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Richard Elton

Toluene

o-Xylene m,p-Xylenes Ethylbenzene

 $\triangle \triangle \triangle \triangle \triangle$

11/30/05 11/30/05

8260b 8260b

4.

104.9 104.4 105.3

114.6 111.2

102

108.2

112

109

109.3

98

8260b

11/30/05

µg/L √gγ μ g/L

 $\mu g/L$

µg/L

Benzene

Volatile organics-8260b/BTEX

REPORT OF ANALYSIS

Parameter

Result l

Units

RQL⁵

Blank

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

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

Attn: Client: Iain Olness Environmental Plus, Inc. Sample Name: MRW-5 Project ID: 2002-10248 Vacuum 10" to Jal

Report#/Lab ID#: 173957

Sample Matrix: water

REPORT OF SURROGATE RECOVERY

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

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

1

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

	Delivered by:	Charac 10%			Sampler Relinquished:		10	1739579	1739568	1739557	173954 6	1739535	1739524	1739513	1739502	1	LAB I.D.		EPI Sampler Name	Project Reference	Facility Name	Client Company	EPI Phone#/Fax#	City, State, Zip	Mailing Address	EPI Project Manager	Company Name
	,	CTEGERNS VI		lime	Date			739579 MRW 5	MKE - 4	MRW-3	MRW-2	スル・3	739524 MRW - 1	RW-Z	ガW-1	MW-9	SAMPLE I.D.		ne George Blackburn	e 2002-10248	Vacuum 10" to Jal	Plains All American	505-394-3481 / 505-394-2601	Eunice New Mexico 88231	P.O. BOX 1558	ager lain Olness	Environmental Plus, Inc.
15 acr - 1 10	Sample Cool & Intact Yes No	1174:151 AS	99H 50-22-1/1		Received By:								4	_	_	G	(G)RAB OR (C)OMP	·.	kburn		to Jal	erican	1 / 505-394-	Mexico 882	58		tal Plus, Inc
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Chain of Custody Form

APPENDIX B SOIL LABORATORY ANALYTICAL RESULTS AND

CHAIN-OF-CUSTODY FORM



Analytical Report

Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Vacuum 10" to Jal
Project Number: 2002-10248
Location: None Given

Lab Order Number: 5E06006

Report Date: 05/09/05

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

Fax: (432) 687-4914

Reported:
05/09/05 12:07

ANALYTICAL REPORT FOR SAMPLES

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

Project: Vacuum 10" to Jal
Project Number: 2002-10248

Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported: 05/09/05 12:07

Organics by GC Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
EE Bottom SXP 1 (5E06006-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE50903	05/06/05	05/06/05	EPA 8021B	
Toluene	0.0268	0.0250	н	n	**	u	н	И	
Ethylbenzene	0.0382	0.0250	и	11	**	"	n	**	
Xylene (p/m)	0.209	0.0250	11	**	"	"	и	11	
Xylene (o)	0.0493	0.0250		**	**	11		11	
Surrogate: a,a,a-Trifluorotoluene		100 %	80-1	20	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		85.4 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	208	10.0	mg/kg dry	1	EE50602	05/06/05	05/06/05	EPA 8015M	
Diesel Range Organics > C12-C35	2170	10.0	91	n	**	"	11	Ħ	
Total Hydrocarbon C6-C35	2380	10.0	w		н			"	
Surrogate: 1-Chlorooctane		76.4 %	70-1	30	"	n	"	"	
Surrogate: 1-Chlorooctadecane		84.8 %	70-1.	30	"	"	"	"	
		-							
EE Wall SXP 1 (5E06006-02) Soil								·	
Benzene	ND	0.0250	mg/kg dry	25	EE50903	05/06/05	05/06/05	EPA 8021B	
Toluene	J [0.0150]	0.0250	н	п		u	"	u	J
Ethylbenzene	0.0372	0.0250	n	**	"	n	"	n	
Xylene (p/m)	0.0973	0.0250	u	**	" .	n .		n	
Xylene (o)	0.0376	0.0250	11	**	"		**	0	
Surrogate: a,a,a-Trifluorotoluene		85.1 %	80-12	20	"	,,	"	"	
Surrogate: 4-Bromofluorobenzene		80.4 %	80-1.	20	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE50602	05/06/05	05/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	11	**	н	"	"	
Total Hydrocarbon C6-C35	ND	10.0	11			11	*		
Surrogate: 1-Chlorooctane		83.6 %	70-1.	30	ĩ,	11	"	n	
Surrogate: 1-Chlorooctadecane		72.0 %	70-1.	30	"	"	"	"	
EE Bottom SXP 2 (5E06006-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE50903	05/06/05	05/06/05	EPA 8021B	
Toluene	ND	0.0250	H	"	"	"	"	"	
Ethylbenzene	ND	0.0250	*	"	11	п	*	и	
Xylene (p/m)	ND	0.0250	"	**	**	**	**	п	
Xylene (o)	ND	0.0250	n	н	,,	**		**	
Surrogate: a,a,a-Trifluorotoluene		99.9 %	80-12	20	,,	,,	,,		V.3
Surrogate: 4-Bromofluorobenzene		88.5 %	80-12		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE50602	05/06/05	05/06/05	EPA 8015M	
	112	10.0	J J J	-					
Diesel Range Organics >C12-C35	ND	10.0	**	11	n n	"		н	

Environmental Lab of Texas

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

Project Number: 2002-10248
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
05/09/05 12:07

Organics by GC Environmental Lab of Texas

									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Not
EE Bottom SXP 2 (5E06006-03) Soil									
Surrogate: 1-Chlorooctane		75.8 %	70-	130	EE50602	05/06/05	05/06/05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		72.4 %	70-1	130	"	"	n	n	
EE Wall SXP 2 (5E06006-04) Soil		_							
Benzene	ND	0.0250	mg/kg dry	25	EE50903	05/06/05	05/06/05	EPA 8021B	
Toluene	ND	0.0250	"	"		"	"	"	
Ethylbenzene	ND	0.0250	n	n	**	"	"	11	
Xylene (p/m)	ND	0.0250	u	и	**	11	"	**	
Xylene (o)	ND	0.0250	"	"	n	u	**	#	
Surrogate: a,a,a-Trifluorotoluene		84.0 %	80-1	20	"	"	n	"	
Surrogate: 4-Bromofluorobenzene		80.6 %	80-1	20	"	"	"	n	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE50602	05/06/05	05/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	. 10.0	"	"		u	н	**	
Total Hydrocarbon C6-C35	ND	10.0	*1	"	**	"	n	n -	
Surrogate: 1-Chlorooctane		77.6 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		72.6 %	70-1	30	"	"	"	"	
EE Bottom SXP 3 (5E06006-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE50903	05/06/05	05/06/05	EPA 8021B	
Toluene	ND	0.0250	п	н	u	11 -	11	"	
Ethylbenzene	ND	0.0250		n	n	11	11	"	
(ylene (p/m)	ND	0.0250	11	**	Ħ	11	н	"	
(ylene (o)	ND	0.0250	"	11	u	**	"	#	
Surrogate: a,a,a-Trifluorotoluene		93.2 %	80-1	20	"	n	"	"	
'urrogate: 4-Bromofluorobenzene		91.7 %	80-1	20	<i>;</i>	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE50602	05/06/05	05/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0		"	W.	**	11	"	
otal Hydrocarbon C6-C35	ND	10.0	"	н	"	"	"	**	
urrogate: 1-Chlorooctane		85.4 %	70-1	30	"	"	n	"	
urrogate: 1-Chlorooctadecane		73.8 %	70-1	30	n	"	"	"	

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

Fax: (432) 687-4914

Reported: 05/09/05 12:07

Organics by GC Environmental Lab of Texas

		Ellvii oli							
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
EE Wall SXP 3 (5E06006-06) Soil				Dilution	Daten	Trepared	Anaryzeu	Wichlou	11010
Benzene	ND	0.0250	mg/kg dry	25	EE50903	05/06/05	05/06/05	EPA 8021B	
Toluene	ND	0.0250	Ħ	**	n	"	n	11	
Ethylbenzene	ND	0.0250	**	"	н	н	н	"	
Xylene (p/m)	0.0537	0.0250	"	ñ	н	н	**	11	
Xylene (o)	ND	0.0250	11	"	u	"	**	17	
Surrogate: a,a,a-Trifluorotoluene		91.9 %	80-1	20	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		91.2 %	80-1	20	"	"	"	n	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE50602	05/06/05	05/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	**	u	n	n.	**	"	
Total Hydrocarbon C6-C35	ND	10.0	11	"	**	"	11	н	
Surrogate: 1-Chlorooctane		81.0 %	70-1	30	"	"	"	n	· ·······
Surrogate: 1-Chlorooctadecane		74.6 %	70-1	30	"	"	"	"	
EE SXP 4 (5E06006-07) Soil		-			nga wen u				
Benzene	ND	0.0250	mg/kg dry	25	EE50903	05/06/05	05/06/05	EPA 8021B	
Toluene	ND	0.0250	"	11	11	и	11	11	
Ethylbenzene	ND	0.0250	**	11	n	н	"		
Xylene (p/m)	ND	0.0250	"		" .	"	"	"	
Xylene (o)	ND	0.0250		**	н	н	**	"	
Surrogate: a,a,a-Trifluorotoluene		99.2 %	80-1	20	,,	<i>n</i> -	"	n	
Surrogate: 4-Bromofluorobenzene		89.6 %	80-1	20	"	n	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE50602	05/06/05	05/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	n	**	**	"	11	11	
Total Hydrocarbon C6-C35	ND	10.0	н	**	"	**	"	Ħ	
Surrogate: 1-Chlorooctane		78.6 %	70-1	30	'n	n	"	"	
Surrogate: 1-Chlorooctadecane		71.4 %	70-1	30	"	n	"	п	
EE SXP 5 (5E06006-08) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE50903	05/06/05	05/06/05	EPA 8021B	
Toluene	ND	0.0250	"	**	"	**	и	и	
Ethylbenzene	ND	0.0250	11	"	**	**	u	"	
Xylene (p/m)	ND	0.0250	**		*	"	н	**	
Xylene (o)	ND	0.0250	п	v	"		н	н	
Surrogate: a,a,a-Trifluorotoluene		95.2 %	80-1	20	"	"	,,	"	
Surrogate: 4-Bromofluorobenzene		93.5 %	80-1	20	"	и	"	#	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE50602	05/06/05	05/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	11.6	10.0	**	Ħ	#		н	"	
Total Hydrocarbon C6-C35	11.6	10.0	н		11	n	"	U	

Environmental Lab of Texas

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

Project: Vacuum 10" to Jal Project Number: 2002-10248

Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported: 05/09/05 12:07

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
EE SXP 5 (5E06006-08) Soil									
Surrogate: 1-Chlorooctane		86.0 %	70	130	EE50602	05/06/05	05/06/05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		74.0 %	70	130	"	n	"	n	
EE SXP 6 (5E06006-09) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE50903	05/06/05	05/06/05	EPA 8021B	
Toluene	ND	0.0250	"	n	11	11	u	и	
Ethylbenzene	ND	0.0250	11	"	н	"	11	н	
Xylene (p/m)	0.0629	0.0250	"	**	"	n	"	"	
Xylene (o)	ND	0.0250	"	11	Ħ	11	11	11	
Surrogate: a,a,a-Trifluorotoluene		99.5 %	80-1	20	"	"	"	n .	
Surrogate: 4-Bromofluorobenzene		95.2 %	80-1	20	"	"	<i>n</i>	n .	
Gasoline Range Organics C6-C12	12.1	10.0	mg/kg dry	1	EE50602	05/06/05	05/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	181	- 10.0	"	"	<u>"</u>	11	11	н	
Total Hydrocarbon C6-C35	193	10.0	"	**	"	**	"	. "	
Surrogate: 1-Chlorooctane		81.6 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		79.0 %	70-1	30	"	"	"	"	
EE SXP 7 (5E06006-10) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE50903	05/06/05	05/06/05	EPA 8021B	
Toluene	ND	0.0250	11	**	n	"	"	"	
Ethylbenzene	ND	0.0250	н	"	и	"	"	11	
Xylene (p/m)	0.0460	0.0250	"	н	**	n	**	"	
Xylene (o)	ND	0.0250	"	"	"	11	"	"	
Surrogate: a,a,a-Trifluorotoluene		91.9 %	80-1	20	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		93.2 %	80-1	20	ű	"	"	n	
Gasoline Range Organics C6-C12	J [6.88]	10.0	mg/kg dry	1	EE50602	05/06/05	05/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	139	10.0	ņ	"	"	n	н	H	
Total Hydrocarbon C6-C35	139	10.0	n	n	н	н	11	"	
Surrogate: 1-Chlorooctane		76.4 %	70-1	30	"	n	"	"	
Surrogate: 1-Chlorooctadecane		74.8 %	70-1	30	"	"	"	"	

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

Fax: (432) 687-4914

Reported: 05/09/05 12:07

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Mathed	Nt. 4
EE SXP 8 (5E06006-11) Soil		Linux		Dilution	Batch	Prepared	Analyzed	Method	Note
		0.0250		25	EE60003	05/06/05	05/00/05	EDA GOZIA	
Benzene	ND	0.0250	mg/kg dry	25 "	EE50903	05/06/05	05/09/05	EPA 8021B	
Toluene	ND	0.0250	"			"	"	u	
Ethylbenzene	ND	0.0250				"	**	u	
Xylene (p/m)	ND	0.0250	"	"	"	"	"	"	
Xylene (o)	ND	0.0250							
Surrogate: a,a,a-Trifluorotoluene		97.4 %	80-1		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.4 %	80-1		"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE50602	05/06/05	05/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	J [9.66]	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0			***************************************			"	
Surrogate: 1-Chlorooctane		78.4 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		74.0 %	70-1	30	"	"	n	"	
EE SXP 9 (5E06006-12) Soil		-			age and a				
Benzene	ND	0.0250	mg/kg dry	25	EE50903	05/06/05	05/09/05	EPA 8021B	**
Toluene	ND	0.0250	**	"	"	"	11	**	
Ethylbenzene	ND	0.0250	п		**	**	"	*	
Xylene (p/m)	ND	0.0250	**	•	w . .		и	н	
Xylene (o)	ND	0.0250		"	**	tt	**	17	
Surrogate: a,a,a-Trifluorotoluene		99.9 %	80-1	20	"	"	n n	n	
Surrogate: 4-Bromofluorobenzene		89.3 %	80-1.	20	"	"	"	"	
Gasoline Range Organics C6-C12	86.4	10.0	mg/kg dry	ı	EE50602	05/06/05	05/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	879	10.0	n	**	п	"		**	
Total Hydrocarbon C6-C35	965	10.0	11		"	Ħ	н	и	
Surrogate: 1-Chlorooctane		88.0 %	70-1	30	í	"	"	"	
Surrogate: 1-Chlorooctadecane		93.2 %	70-1	30	"	"	"	"	
EE SXP 10 (5E06006-13) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE50903	05/06/05	05/06/05	EPA 8021B	
Toluene	ND	0.0250	н		"	и	н	11	
Ethylbenzene	ND	0.0250	Ħ	,,	"	н	**	11	
Xylene (p/m)	0.0450	0.0250		11		"	11	11	
Xylene (o)	ND	0.0250	n	n	**	ห	n	n	
Surrogate: a,a,a-Trifluorotoluene		100 %	80-1.	20	,,	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.4 %	80-1.		"	"	"	"	
Gasoline Range Organics C6-C12	J [7.43]	10.0	mg/kg dry	1	EE50602	05/06/05	05/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	80.8	10.0	"		"	"	"	н	
Total Hydrocarbon C6-C35	80.8	10.0	**	11	11	,,	**	"	

Environmental Lab of Texas

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

p.

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

Fax: (432) 687-4914

Reported:
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Organics by GC

Environmental Lab of Texas

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

Project: Vacuum 10" to Ja!
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Reported: 05/09/05 12:07

General Chemistry Parameters by EPA / Standard Methods Environmental Lab of Texas

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

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General Chemistry Parameters by EPA / Standard Methods Environmental Lab of Texas

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

Project Number: 2002-10248
Project Manager: Camille Reynolds

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Reported:

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Organics by GC - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Vesuit	Limit	Onis	Peaci	resuit	70KEC	Lunks	KrD	Lunt	notes
Batch EE50602 - Solvent Extraction (GC)										
Blank (EE50602-BLK1)				Prepared &	Analyzed:	: 05/06/05				
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	**							
Surrogate: 1-Chlorooctane	46.2		mg/kg	50.0		92.4	70-130			
Surrogate: 1-Chlorooctadecane	35.1		"	50.0		70.2	70-130			
LCS (EE50602-BS1)				Prepared &	Analyzed:	05/06/05				
Gasoline Range Organics C6-C12	456	10.0	mg/kg wet	500		91.2	75-125			
Diesel Range Organics >C12-C35	522	10.0	н	500		104	75-125			
Total Hydrocarbon C6-C35	978	10.0	**	1000		97.8	75-125			
Surrogate: I-Chlorooctane	38.7		mg/kg	50.0		77.4	70-130			
Surrogate: 1-Chlorooctadecane	35.8		n	50.0		71.6	70-130			
Calibration Check (EE50602-CCV1)				Prepared &	Analyzed:	05/06/05				
Gasoline Range Organics C6-C12	452		mg/kg	500		90.4	80-120			
Dieset Range Organics >C12-C35	516		11	500		103	80-120			
Total Hydrocarbon C6-C35	968		н	1000		96.8	80-120			
Surrogate: 1-Chlorooctane	43.9		"	50.0		87.8	70-130			
Surrogate: 1-Chlorooctadecane	36.8		"	50.0		73.6	70-130			
Matrix Spike (EE50602-MS1)	Sou	rce: 5E06006	5-02	Prepared &	Analyzed:	05/06/05				
Gasoline Range Organics C6-C12	488	10.0	mg/kg dry	526	ND	92.8	. 75-125			
Diesel Range Organics >C12-C35	544	10.0	**	526	ND	103	75-125			
Total Hydrocarbon C6-C35	1030	10.0	"	1050	ND	98.1	75-125			
Surrogate: 1-Chlorooctane	43.6		mg/kg	50.0		87.2	70-130			
Surrogate: 1-Chlorooctadecane	36.2		"	50.0		72.4	70-130			
Matrix Spike Dup (EE50602-MSD1)	Sou	rce: 5E06006	5-02	Prepared &	Analyzed:	05/06/05				
Gasoline Range Organics C6-C12	477	10.0	mg/kg dry	526	ND	90.7	75-125	2.28	20	
Diesel Range Organics >C12-C35	521	10.0	н	526	ND	99.0	75-125	4.32	20	
Total Hydrocarbon C6-C35	998	10.0	"	1050	ND	95.0	75-125	3.16	20	
Surrogate: 1-Chlorooctane	43.4		mg/kg	50.0		86.8	70-130		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Surrogate: 1-Chlorooctadecane	36.2		"	50.0		72.4	70-130			

Project: Vacuum 10" to Jal
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Organics by GC - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Resuit	Limit	Units	Level	Kesuit	%REC	Limits	RPD	Limit	Notes
Batch EE50903 - EPA 5030C (GC)										
Blank (EE50903-BLK1)				Prepared &	Analyzed:	05/06/05				
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	n							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	11							
Surrogate: a,a,a-Trifluorotoluene	103		ug/kg	100	•	103	80-120			
Surrogate: 4-Bromofluorobenzene	102		n	100		102	80-120			
LCS (EE50903-BS1)				Prepared &	Analyzed:	05/06/05				
Benzene	84.4		ug/kg	100		84.4	80-120		, , , , , , , , , , , , , , , , , , , ,	
Гoluene	87.6		n	100		87.6	80-120			
Ethylbenzene	90.3		11	100		90.3	80-120			
Xylene (p/m)	214		11	200		107	80-120			
Xylene (o)	95.6	-	11	100		95.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	91.2		"	100		91.2	80-120			
Surrogate: 4-Bromofluorobenzene	111		"	100		111	80-120			
Calibration Check (EE50903-CCV1)				Prepared: 0	5/06/05 Aı	nalyzed: 05	/07/05			
Benzene	81.6		ug/kg	100		81.6	80-120			
Toluene	82.4		"	100		82.4	80-120			
Ethylbenzene	80.8		11	100		80.8	80-120			
Kylene (p/m)	183		"	200		91.5	- 80-120			
Kylene (o)	90.5		"	100		90.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	120		"	100		120	80-120			
Surrogate: 4-Bromofluorobenzene	102		"	100		102	80-120			
Matrix Spike (EE50903-MS1)	Sour	rce: 5E06008-	02	Prepared: 0	5/06/05 Ar	alyzed: 05/	/09/05			
Benzene	2060		ug/kg	2500	ŅD	82.4	80-120			
oluene	2150		**	2500	ND	86.0	80-120			
thylbenzene	2260		н	2500	ND	90.4	80-120			
(ylene (p/m)	5000		н	5000	ND	100	80-120			
(ylene (o)	2340			2500	ND	93.6	80-120			
urrogate: a,a,a-Trifluorotoluene	117		"	100		117	80-120			
urrogate: 4-Bromofluorobenzene	117		"	100		117	80-120			

Xylene (o)

Surrogate: a,a,a-Trifluorotoluene

Surrogate: 4-Bromofluorobenzene

Project: Vacuum 10" to Jal
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Organics by GC - Quality Control Environmental Lab of Texas

		Reporting	Spike	Source		%REC		RPD	
Analyte	Result	Limit Un	ts Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EE50903 - EPA 5030C (GC)		_							
Matrix Spike Dup (EE50903-MSD1)	Sour	ce: 5E06008-02	Prepared	& Analyzed	: 05/06/05				
Benzene	2110	ug/	g 2500	ND	84.4	80-120	2.40	20	
Toluene	2180	**	2500	ND	87.2	80-120	1.39	20	
Ethylbenzene	2300	**	2500	ND	92.0	80-120	1.75	20	
Xylene (p/m)	5310	**	5000	ND	106	80-120	5.83	20	

2500

100

100

ND

99.6

116

117

80-120

80-120

80-120

6.21

2490

116

117

Project: Vacuum 10" to Jal
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General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE50901 - General Preparation (Prep)										
Blank (EE50901-BLK1)				Prepared: 0	05/06/05 A	nalyzed: 05	/09/05			
% Moisture	ND	0.1	%							
Duplicate (EE50901-DUP1)	Sour	rce: 5E06001-	D1	Prepared: 0	05/06/05 A	nalyzed: 05.	/09/05			
% Moisture	1.3	0.1	%		1.2			8.00	20	

Project: Vacuum 10" to Jal
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Reported: 05/09/05 12:07

Notes and Definitions

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

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

Raland Kotuls

Date:

5/9/2005

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

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Chain of Custody Form

Environmental Labs of Texas

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Company Name EPI Project Manager Mailing Address City, State, Zip EPI Phone#/Fax#		ntal Plus, 558 Mexico (11 / 505-3(Inc. 3823	- <u>6</u>																			
Client Company Pis Facility Name Va Project Reference 20 EPI Sampler Name Jo	Plains All American Vacuum 10" to Jal 2002-10248 Joe Gatts	nerican to Jal				, , , , , , , , , , , , , , , , , , , 	•	Affr.	th: ENV A PO F	海 X O E	Accou	Attn: ENV Accounts Payable PO Box 4648, Houston, TX 77210-4648	<u>o</u>				BARTER DE BARTER DE L'ANGLES DE L'ANGLES DE L'ANGLES DE L'ANGLES DE L'ANGLES DE L'ANGLES DE L'ANGLES DE L'ANGLE		ENZ AND INCLUSION INCUSTRATORI INCUSTRATORI INCUSTRATORI INCUSTRATORI INCUSTRATORI INCUSTRATORI INCUSTRATORI INCUSTRATORI INCUSTRATORI INCUSTRATORI INCUSTRATORI INCUSTRATORI INCUSTRATORI INCUSTRATORI INCUSTRATORI INCUSTRATORI INCUSTRATORI INCUSTRATORI INCUSTRATORI INCUSTRATOR	BOOMAS STOP STATE OF THE PROPERTY AND ADDRESS OF THE	TO THE STATE OF TH	karan erak manyarik da karina ara-dan erasa kan can	
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EPI Project Manager	ager lain Olness				<u> </u>					+	-					-	-					_	_
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Variance / Corrective Action Report - Sample Log-In

Initials: Sample Receipt Checklist 4.0 Temperature of container/cooler? Shipping container/cooler in good condition? Custody Seals intact on snicpling container/cooler? Not cresent Custody Seals intact on sample cottles? Not cresent Chain of custody present? 735 Sample Instructions complete on Chain of Custody? Chain of Custody signed when relinquished and received? Chain of custody agrees with sample labelies Container labels legible and intact? Sample Matrix and procerties same as on chain of oustody? Samples in proper container/bottle? Samples procedy preserved? Sample bottles intagt? Preservations documented on Chain of Custody? Containers documented on Chain of Custom? Sufficient sample amount for indicated test? All samples received within sufficient hold time? VCC samples have zero headscape? Not Applicable Other observations: Variance Documentation: Date Time: _____ Contacted by: _____ Contact Person: -Regarding: Corrective Action Taken:



Analytical Report

Prepared for:

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

Project: Vacuum 10" to Jal
Project Number: 2002-10248
Location: None Given

Lab Order Number: 5E19006

Report Date: 05/20/05

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

Fax: (432) 687-4914

Reported:
05/20/05 11:41

ANALYTICAL REPORT FOR SAMPLES

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

Project Number: 2002-10248
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported: 05/20/05 11:41

Organics by GC Environmental Lab of Texas

Environmental Lab of Texas									
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	No
EE Bottom SXP 1-B (5E19006-01) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE51903	05/19/05	05/19/05	EPA 8021B	
Toluene	ND	0.0250	**	"	ij		n	11	
Ethylbenzene	ND	0.0250	u	n	11	tt	H	"	
Xylene (p/m)	ND	0.0250	11	u	"	п	11	11	
Xylene (o)	ND	0.0250	**	"		11	11	н	
Surrogate: a,a,a-Trifluorotoluene		81.3 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.7 %	80-1	20	n	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE51904	05/19/05	05/19/05	EPA 8015M	
Diesel Range Organics > C12-C35	35.4	10.0	u	"	n	и	н	н	
Total Hydrocarbon C6-C35	35.4	10.0	11	11	и	'n	11	**	
Surrogate: 1-Chlorooctane		75.2 %	70-1	30	"	,,	n n	"	
Surrogate: 1-Chlorooctadecane		71.2 %	70-1	30	"	"	"	u	
EE SXP 6-B (5E19006-02) Soil		-							
Benzene	ND	0.0250	mg/kg dry	25	EE51903	05/19/05	05/19/05	EPA 8021B	
Toluene	ND	0.0250	"	**	#	"	"	11	
Ethylbenzene	ND	0.0250	11	**	н	"	**	н	
Xylene (p/m)	0.0441	0.0250	"	"	п -	H.	п	и	
Xylene (o)	0.0281	0.0250	n		н	,,	11	11	
Surrogate: a,a,a-Trifluorotoluene		85.5 %	80-1.	20	n	,,	"	"	
Surrogate: 4-Bromofluorobenzene		120 %	80-1	20	"	"	n	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE51904	05/19/05	05/19/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	H	11	11	n	"	11	
Total Hydrocarbon C6-C35	ND	10.0	"	11	**	**	"	и	
Surrogate: 1-Chlorooctane		79.0 %	70-1	30	ű	"	"	n	
Surrogate: 1-Chlorooctadecane		71.4 %	70-1	30	"	н	"	n .	
EE SXP 7-B (5E19006-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE51903	05/19/05	05/19/05	EPA 8021B	
Toluene	ND	0.0250	**	n	"	**	11	n	
Ethylbenzene	ND	0.0250	"	11	**	н	"	11	
Xylene (p/m)	ND	0.0250	n	"	*	"	"	**	
Xylene (o)	ND	0.0250	и	#	11	n	"	ш	
Surrogate: a,a,a-Trifluorotoluene		84.9 %	80-1.	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.0 %	80-1.	20	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE51904	05/19/05	05/19/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	н	н	**	u	**	и	
Total Hydrocarbon C6-C35	ND	10.0	н	11	u	н	**	11	

Environmental Lab of Texas

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

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

Fax: (432) 687-4914 Reported:

05/20/05 11:41

Organics by GC **Environmental Lab of Texas**

Analyte	Result	Reporting Limit		Dilution	Batch	Prepared	Analyzed	Method	Notes
EE SXP 7-B (5E19006-03) Soil									
Surrogate: 1-Chlorooctane		78.6 %	70-1	30	EE51904	05/19/05	05/19/05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		71.0 %	70-1	30	"	"	"	"	
EE SXP 9-B (5E19006-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EE51903	05/19/05	05/19/05	EPA 8021B	
Toluene	ND	0.0250	"	н	н	н	н	n	
Ethylbenzene	ND	0.0250	11	**	"	II	H	If	
Xylene (p/m)	ND	0.0250	11	n	**	н	"	Ħ	
Xylene (o)	ND	0.0250	н	"	n	,,	11	11	
Surrogate: a,a,a-Trifluorotoluene		90.2 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EE51904	05/19/05	05/19/05	EPA 8015M	
Diesel Range Organics >C12-C35	76.8	- 10.0	"	11	11		"	н	
Total Hydrocarbon C6-C35	76.8	10.0	11	"	**	**	**	**	
Surrogate: 1-Chlorooctane		75.8 %	70-1.	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		70.4 %	70-1.	30	"	n	"	"	

Project: Vacuum 10" to Jal
Project Number: 2002-10248

Project Number: 2002-10248

Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported: 05/20/05 11:41

General Chemistry Parameters by EPA / Standard Methods Environmental Lab of Texas

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

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

Fax: (432) 687-4914

Reported:

Reported: 05/20/05 11:41

Organics by GC - Quality Control Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EE51903 - EPA 5030C (GC)				···						
Blank (EE51903-BLK1)				Prepared &	Analyzed:	05/19/05				
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	**							
Ethylbenzene	ND	0.0250	н							
Xylene (p/m)	ND	0.0250	**							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	92.9		ug/kg	100		92.9	80-120			
Surrogate: 4-Bromofluorobenzene	102		n	100		102	80-120			
LCS (EE51903-BS1)				Prepared &	Analyzed:	05/19/05				
Benzene	96.8		ug/kg	100		96.8	80-120			
Toluene	96.3		**	100		96.3	80-120			
Ethylbenzene	99.2		"	100		99.2	80-120			
Xylene (p/m)	225		н	200		112	80-120			
Xylene (o)	99.9	-	**	100	-	99.9	80-120			
Surrogate: a,a,a-Trifluorotoluene	117		"	100		117	80-120			
Surrogate: 4-Bromofluorobenzene	114		"	100		114	80-120			
Calibration Check (EE51903-CCV1)				Prepared &	Analyzed:	05/19/05				
Benzene	97.4		ug/kg	100		97.4	80-120			
Γoluene	88.0			100		88.0	80-120			
Ethylbenzene	84.8		н	100		84.8	80-120			
Kylene (p/m)	181		11	200		90.5 -	80-120			
Kylene (o)	85.0		**	100		85.0	80-120			
Surrogate: a,a,a-Trifluorotoluene	103		"	100		103	80-120			
Surrogate: 4-Bromofluorobenzene	101		"	100		101	80-120			
Matrix Spike (EE51903-MS1)	Sour	rce: 5E17009	-05	Prepared &	Analyzed:	05/19/05				
Benzene	98.3		ug/kg	100	ŃD	98.3	80-120			
Toluene	92.1		**	100	ND	92.1	80-120			
Ethylbenzene	102		"	100	ND	102	80-120			
(ylene (p/m)	233		"	200	ND	116	80-120			
(ylene (o)	97.2		н	100	ND	97.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	109		"	100		109	80-120			
urrogate: 4-Bromofluorobenzene	118		"	100		118	80-120			

Project: Vacuum 10" to Jal

Project Number: 2002-10248
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported: 05/20/05 11:41

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE51903 - EPA 5030C (GC)										
Matrix Spike Dup (EE51903-MSD1)	Sour	ce: 5E17009	9-05	Prepared &	Analyzed:	05/19/05				
Benzene	93.0		ug/kg	100	ND	93.0	80-120	5.54	20	
Toluene	90.1		**	100	ND	90.1	80-120	2.20	20	
Ethylbenzene	91.4		11	100	ND	91.4	80-120	11.0	20	
Xylene (p/m)	209		H	200	ND	104	80-120	10.9	20	
Xylene (o)	92.0		11	100	ND	92.0	80-120	5.50	20	
Surrogate: a,a,a-Trifluorotoluene	109		"	100		109	80-120	***************************************		
Surrogate: 4-Bromofluorobenzene	118		"	100		118	80-120			
Batch EE51904 - Solvent Extraction (GC)						-··				
Blank (EE51904-BLK1)				Prepared &	Analyzed:	05/19/05				
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet		<u>-</u>			~~		
Diesel Range Organics >C12-C35	ND	10.0	**							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	40.6		mg/kg	50.0	·	81.2	70-130		,	
Surrogate: 1-Chlorooctadecane	36.0		"	50.0		72.0	70-130			
LCS (EE51904-BS1)				Prepared &	Analyzed:	05/19/05				
Gasoline Range Organics C6-C12	443	10.0	mg/kg wet	500		88.6	75-125			
Diesel Range Organics >C12-C35	463	10.0	n	500		92.6	75-125			
Total Hydrocarbon C6-C35	906	10.0	**	1000	•	90.6	75-125			
Surrogate: 1-Chlorooctane	43.5		mg/kg	50.0		87.0	70-130			
Surrogate: 1-Chlorooctadecane	35.5		"	50.0		71.0	70-130			
Calibration Check (EE51904-CCV1)				Prepared &	Analyzed:	05/19/05				
Gasoline Range Organics C6-C12	448		mg/kg	500	7.0	89.6	80-120			
Diesel Range Organics >C12-C35	513		н	500		103	80-120			
Total Hydrocarbon C6-C35	961		"	1000		96.1	80-120			
Surrogate: 1-Chlorooctane	54.1		"	50.0		108	70-130			
Surrogate: 1-Chlorooctadecane	41.7		"	50.0		83.4	70-130			

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

Fax: (432) 687-4914

Reported: 05/20/05 11:41

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EE51904 - Solvent Extraction (GC)										
Matrix Spike (EE51904-MS1)	Sou	rce: 5E19006	5-01	Prepared &	k Analyzed:	05/19/05				
Gasoline Range Organics C6-C12	496	10.0	mg/kg dry	534	ND	92.9	75-125			
Diesel Range Organics >C12-C35	605	10.0	11	534	35.4	107	75-125			
Total Hydrocarbon C6-C35	1100	10.0	11	1070	35.4	99.5	75-125			
Surrogate: 1-Chlorooctane	43.9		mg/kg	50.0		87.8	70-130			
Surrogate: 1-Chlorooctadecane	37.6		"	50.0		75.2	70-130			
Matrix Spike Dup (EE51904-MSD1)	Sou	rce: 5E19006	-01	Prepared &	Analyzed:	05/19/05				
Gasoline Range Organics C6-C12	485	10.0	mg/kg dry	534	ND	90.8	75-125	2.24	20	
Diesel Range Organics >C12-C35	618	10.0	**	534	35.4	109	75-125	2.13	20	
Total Hydrocarbon C6-C35	1100	10.0	*1	1070	35.4	99.5	75-125	0.00	20	
Surrogate: I-Chlorooctane	41.9		mg/kg	50.0		83.8	70-130			
Surrogate: 1-Chlorooctadecane	36.6		"	50.0		73.2	70-130			

Duplicate (EE52001-DUP1)

Project: Vacuum 10" to Jal
Project Number: 2002-10248

Project Manager: Camille Reynolds

Prepared: 05/19/05 Analyzed: 05/20/05

Fax: (432) 687-4914

Reported: 05/20/05 11:41

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EE52001 - General Preparation (Prep)										
Blank (EE52001-BLK1)				Prepared: (05/19/05 A	nalyzed: 05	/20/05			
% Moisture	ND	0.1	%							

% Moisture 11.0 0.1 % 11.4 3.57 20

Source: 5E19003-01

Duplicate

Dup

Project: Vacuum 10" to Jal
Project Number: 2002-10248

Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported: 05/20/05 11:41

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Report Approved By: Raland K June

Date:

5/20/2005

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

Jeanne Mc Murrey, Inorg. Tech Director James L. Hawkins, Chemist/Geologist Sandra Sanchez, Lab Tech.

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

Environmental Labs of Texas

12800 West I-20 East, Odessa, TX 79763 (915) 563-1800 FAX: (915) 563-1713

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	L		_	gadaya.	- Contraction				1700A	≨	TIOS	×	×	X	X							333
										l	MASTEWATER											
				F						_	язтам аипояэ											1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
inc.			231	786						_	# CONTAINERS	ļ	+	-	1			_				Solved By
			88	394				Į		<u>L</u>	9MO(3) NO BAR(8)	0	9	Ö	Ö	_	_	_	_			\$ \$ \\ \frac{1}{2} \\
Environmental Plus,	lain Olness	BOX 1558	Eunice New Mexico 88231	505-394-3481 / 505-394-2601	Plains All American	um 10" to Jai	2002 40240	-10240	John Robinson		SAMPLE I.D.	21.B										Time 2/100 Part of the Co. Co. Co. Co. Co. Co. Co. Co. Co. Co.
					Plain	Vacu					SAMP	EE Bottom SXP 1	2 EE SXP 6 - B	3 EE SXP 7 - B	4 EE SXP 9 - B							ES THE STATE OF TH
Company Name	EPI Project Manager	Mailing Address	City, State, Zip	EPI Phone#/Fax	Client Company	Facility Name	Droiport Doforono	الماهدر بالماهادة	EPI Sampler Name		LABID.	10	-02	-08 3	104 4	5	9	7	8	6	10	Sampler Relinquished Relinquished by: Delivered by:

Environmental Lab of Texas

Variance / Cenective Action	Report	t - S	ample Log-In	
Client:				
Date/Time: 5/19/05 12:00				
Order#: 5519006				
Initials:				
Sample Receipt	Checkli	ist		
Temperature of container/cooler?	Yes	No	45 C	
Shipping container/cooler in good condition?	Yes	No	none	
Custody Seals intact on shipping container/cooler?	Yes	No	Netpresent	
Custody Seals intact on sample bottles?	Yes	No	Not present	
Chain of custody present?	Yes	No		
Sample Instructions complete on Chain of Custody?	Yes	No		
Chain of Custody signed when relinquished and received?	(Ves	No		
Chain of custody agrees with sample label(s)	A PES	No		
Container labels legible and intact?	Tes	No		
Sample Matrix and properties same as on chain of custody?	Yes	No		
Samoles in proper container/bottle?	/ es	No		
Samples properly preserved?	78	No		
Sample bottles intact?	A es	No		
Preservations documented on Chain of Custody?	(Fes	Ñō		
Containers documented on Chain of Custody?	1 2 3 I	No	1	•
Sufficient sample amount for indicated test?	des	No		
All samples received within sufficient hold time?	(Mes	No		
VQC samples have zero headspace?	1/735	No	Not Applicable	
Other observations:				
Variance Docur Contact Person: Date/Time: Regarding:			Contacted by:	
	<u>.</u>			
Courseive Assign Tolera				
Corrective Action Taken:		namar Affaddinaddiad AntiA		
		~~~~		Annual Control of the Control of State C
				***************************************



### Analytical Report

### Prepared for:

Camille Reynolds

Plains All American EH & S

1301 S. County Road 1150

Midland, TX 79706-4476

Project: Vacuum 10" to Jal Project Number: 2002-10248

Location: None Given

Lab Order Number: 5G05006

Report Date: 07/11/05

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

Fax: (432) 687-4914

Reported:
07/11/05 16:53

### ANALYTICAL REPORT FOR SAMPLES

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

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

Fax: (432) 687-4914

Reported:

Reported: 07/11/05 16:53

### Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	D:1	D-1-1	D1	Ameliand	Math - 4	<b>N7</b> _+
Analyte	Kesuit	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WE N-2 (5G05006-01) Soil		<del> </del>		<del></del>					<del>-</del>
Benzene	ND	0.0250	mg/kg dry	25	EG50805	07/07/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	"	н	n	u	"	и	
Ethylbenzene	ND	0.0250	"	"	н	"	"	#1	
Xylene (p/m)	ND	0.0250	"	"	"	11	"	"	
Xylene (o)	ND	0.0250	**	w	11	n	n		
Surrogate: a,a,a-Trifluorotoluene		93.8 %	80-1	20	"	"	"	#	
Surrogate: 4-Bromofluorobenzene		85.0 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50518	07/05/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	•	41	u	"	**	
Total Hydrocarbon C6-C35	ND	10.0	"	**	"	"	tt	n	
Surrogate: 1-Chlorooctane		80.6 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		83.6 %	70-1	30	"	"	. "	u .	
WE N-3 (5G05006-02) Soil					age over a				
Benzene	J [0.0220]	0.0250	mg/kg dry	25	EG50805	07/07/05	07/08/05	EPA 8021B	J
Toluene	0.0556	0.0250	**	"	"	н	n .	n	
Ethylbenzene	J [0.0228]	0.0250	**	**	"	11	ŧ	11	J
Xylene (p/m)	0.277	0.0250	н	**	۳.	н	н	н	
Xylene (o)	0.0325	0.0250	n	u	"	**		**	
Surrogate: a,a,a-Trifluorotoluene		96.7 %	80-1	20	"	n ·	"	n	
Surrogate: 4-Bromofluorobenzene		91.3 %	80-1	20	n	"	ır	и	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50518	07/05/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	11	**	**	"	"	11	
Total Hydrocarbon C6-C35	ND	10.0	н	"	н	**	**	"	
Surrogate: 1-Chlorooctane		80.4 %	70-1	30	ช์	"	n n	"	
Surrogate: 1-Chlorooctadecane		85.6 %	70-1.	30	"	"	n	"	
WE N-5 (5G05006-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50805	07/07/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	n	**	11	**	"	"	
Ethylbenzene	ND	0.0250	n	**	"	н	"	U	
Xylene (p/m)	0.0659	0.0250	11	"	"	**	и	"	
Xylene (o)	ND	0.0250	"		"	"	11	37	
Surrogate: a,a,a-Trifluorotoluene		99.8 %	80-1	20	"	"	n	n	
Surrogate: 4-Bromofluorobenzene		86.9 %	80-1.	20	"	"	"	"	
Gasoline Range Organics C6-C12	J [7.93]	10.0	mg/kg dry	1	EG50518	07/05/05	07/06/05	EPA 8015M	J
Diesel Range Organics >C12-C35	97.0	10.0	11		"	"	11	**	
Total Hydrocarbon C6-C35	97.0	10.0	"	н	n	"		1)	

Environmental Lab of Texas

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Project Number: 2002-10248
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported:
07/11/05 16:53

### Organics by GC Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
WE N-5 (5G05006-03) Soil									
Surrogate: 1-Chlorooctane		75.4 %	70-1.	30	EG50518	07/05/05	07/06/05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		88.4 %	70-1.	30	"	"	n	n	
WE W-3 (5G05006-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50805	07/07/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	11	"	*1	"	II .	u	
Ethylbenzene	ND	0.0250	н	**	"	u u	11	n	
Xylene (p/m)	ND	0.0250	**	"	11	"	n	**	
Xylene (o)	ND	0.0250	"	11	u	**	"	"	
Surrogate: a,a,a-Trifluorotoluene		104 %	80-12	20	"	"	,,	"	
Surrogate: 4-Bromofluorobenzene		89.4 %	80-12	20	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50518	07/05/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	- 10.0	n	"	2	11	**	n	
Total Hydrocarbon C6-C35	ND	10.0	11	"	1)	u	n	"	
Surrogate: 1-Chlorooctane		80.0 %	70-13	30	"	"	n	"	
Surrogate: 1-Chlorooctadecane		83.4 %	70-13	30	"	"	"	"	
WE W-5 (5G05006-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50805	07/07/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	н	"	и	н -	**	n	
Ethylbenzene	ND	0.0250	н	**	n	"	"	"	
Xylene (p/m)	ND	0.0250	н	11	n	"	"	H	
Xylene (o)	ND	0.0250	"	**	n	n .	u	н	
Surrogate: a,a,a-Trifluorotoluene		103 %	80-12	20	<b>"</b>	"	"	n	
Surrogate: 4-Bromofluorobenzene		82.5 %	80-12	20	"	n	"	n	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50518	07/05/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	11	"	и	н	**	"	
Total Hydrocarbon C6-C35	ND	10.0	**	"	н	н	Ħ	"	
Surrogate: 1-Chlorooctane	19	79.0 %	70-13	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		84.4 %	70-13	10	"	"	"	"	

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

Fax: (432) 687-4914

Reported: 07/11/05 16:53

### Organics by GC Environmental Lab of Texas

		Donatio							
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	No
WE W-9 (5G05006-06) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50805	07/07/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	**	n	n	n	n	n	
Ethylbenzene	ND	0.0250	"	**	r	**	11	н	
Kylene (p/m)	ND	0.0250	"	ч	н	**	"	"	
(ylene (o)	ND	0.0250	**	"	u	**	n	**	
Surrogate: a,a,a-Trifluorotoluene		104 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.9 %	80-1.	20	"	"	"	,,	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50518	07/05/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	1060	10.0	**		**	11		#	
otal Hydrocarbon C6-C35	1060	10.0	11	"	"	"	**	"	
Surrogate: 1-Chlorooctane		76.2 %	70-1.	30	"	"	"	n	
urrogate: 1-Chlorooctadecane		98.4 %	70-1.	30	"	"	"	"	
WE W-13 (5G05006-07) Soil		-			~ ~ .				
Benzene	ND	0.0250	mg/kg dry	25	EG50805	07/07/05	07/08/05	EPA 8021B	
oluene	ND	0.0250	"	"	**	"	,,	ч	
thylbenzene	ND	0.0250	ıı	"	н	#		н	
(ylene (p/m)	ND	0.0250	II.	n	۳.	н	"		
(v)lene (o)	ND	0.0250	**	"	"	tr	"	**	
urrogate: a,a,a-Trìfluorotoluene		100 %	80-12	20	"	"	"	"	
urrogate: 4-Bromofluorobenzene		89.4 %	80-12	20	n	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50518	07/05/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	11	**	н	н	n	11	
otal Hydrocarbon C6-C35	ND	10.0	n .	**	"	II .	n	11	
urrogate: 1-Chlorooctane		81.0 %	70-13	30	"	"	"	"	
urrogate: 1-Chlorooctadecane		83.6 %	70-13	30	n	n	n	n	
VE W-17 (5G05006-08) Soil									
enzene	ND	0.0250	mg/kg dry	25	EG50805	07/07/05	07/08/05	EPA 8021B	
oluene	ND	0.0250	"	11	11	11	n	"	
thylbenzene	ND	0.0250	"	н	"	n	n	,,	
(ylene (p/m)	ND	0.0250	н	u	ч	u	u		
(ylene (o)	· ND	0.0250	0			и	n	u	
urrogate: a,a,a-Trifluorotoluene		101 %	80-12	20	"	,,	"	"	
urrogate: 4-Bromofluorobenzene		108 %	80-12		"	"	n	"	
asoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
tiesel Range Organics >C12-C35	ND	10.0	"	ıı	"	11	н	11	
otal Hydrocarbon C6-C35	ND	10.0	**		н	**	**	**	

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Page 4 of 19

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

Fax: (432) 687-4914

Reported:
07/11/05 16:53

### Organics by GC Environmental Lab of Texas

	<b>.</b>	Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
WE W-17 (5G05006-08) Soil	· · · · · · · · · · · · · · · · · · ·			<u></u> -					
Surrogate: 1-Chlorooctane		80.6 %	70-1	30	EG50604	07/06/05	07/06/05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		98.8 %	70-1.	30	"	"	n	"	
WE S-1 (5G05006-09) Soil	_								
Benzene	ND	0.0250	mg/kg dry	25	EG50805	07/07/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	**	"	n	11	11	и	
Ethylbenzene	ND	0.0250	n		и	n	11	17	
Xylene (p/m)	ND	0.0250	u	**	11	11	11	11	
Xylene (o)	ND	0.0250	"	11	"	11	11		
Surrogate: a,a,a-Trifluorotoluene		94.4 %	80-12	20	"	"	n	"	
Surrogate: 4-Bromofluorobenzene		104 %	80-12	20	"	"	"	n	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	_ 10.0	n	**	11	н	"	п	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	Ħ	11 *	
Surrogate: 1-Chlorooctane		73.4 %	70-13	30	"	,,	"	,,	
Surrogate: 1-Chlorooctadecane		90.6 %	70-13	30	"	"	"	"	
WE S-3 (5G05006-10) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50805	07/07/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	"	"	n	, ,	u	и	
Ethylbenzene	ND	0.0250	н	"	"	tr .	11	"	
Xylene (p/m)	ND	0.0250	**	#	n	n	"	n	
Xylene (o)	ND	0.0250	и	11	n	u	"	н	
Surrogate: a,a,a-Trifluorotoluene		95.5 %	80-12	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		86.5 %	80-12	0	# T	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	11	**	"	н	11	
Total Hydrocarbon C6-C35	ND	10.0	41	н	"	h	н	11	
Surrogate: 1-Chlorooctane		81.2 %	70-13	0	,,	"	"	<i>"</i>	
Surrogate: 1-Chlorooctadecane		99.2 %	70-13	0	"	"	"	"	

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

Fax: (432) 687-4914

Reported: 07/11/05 16:53

### Organics by GC Environmental Lab of Texas

<u></u>	<del></del>	Environ							<del> </del>
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WE E-2 (5G05006-11) Soil									<del>, ,,,,</del>
Benzene	ND	0.0250	mg/kg dry	25	EG50809	07/08/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	**	"	"	H	ır	n	
Ethylbenzene	ND	0.0250	"	"	"	**	"	u	
Xylene (p/m)	ND	0.0250	**	"	"	н	u	"	
Xylene (o)	ND	0.0250		11	и	н	"	и	
Surrogate: a,a,a-Trifluorotoluene		103 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		84.6 %	80-1	20	Ħ	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	n	*1	"	"	"	и	
Total Hydrocarbon C6-C35	ND	10.0	n	**	11	"	**	н	
Surrogate: 1-Chlorooctane		83.4 %	70-1	30	"	,,	"	"	
Surrogate: 1-Chlorooctadecane		101 %	70-1	30	"	"	n	"	
WE E-4 (5G05006-12) Soil					age were to				
Benzene	ND	0.0250	mg/kg dry	25	EG50809	07/08/05	07/08/05	EPA 8021B	
Toluene	0.0305	0.0250	Ħ	"	,,	"	"	**	
Ethylbenzene	J [0.0245]	0.0250	**			"	u	"	J
Xylene (p/m)	0.0930	0.0250	н		".	n	"	н	
Xylene (o)	ND	0.0250	**	"		"	"	"	
Surrogate: a,a,a-Trifluorotoluene		93.5 %	80-1.	20	"	"	1)	"	
Surrogate: 4-Bromofluorobenzene		82.9 %	80-1.	20	"	"	"	"	
Gasoline Range Organics C6-C12	17.0	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	234	10.0		n	**	н	n	и	
Total Hydrocarbon C6-C35	251	10.0	"	н	17	"	"	*	
Surrogate: 1-Chlorooctane		87.6 %	70-1.	30	ď	"	"	"	
Surrogate: 1-Chlorooctadecane		101 %	70-1.	30	"	n	"	"	
WE E-6 (5G05006-13) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50809	07/08/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	н		и		"	"	
Ethylbenzene	ND	0.0250	и	n	n	n	n	**	
Xylene (p/m)	ND	0.0250	**	**	**	"	**	и	
Xylene (o)	ND	0.0250	**	**	17	н		11	
Surrogate: a,a,a-Trifluorotoluene		90.0 %	80-1.	20	"	n	"	"	/
Surrogate: 4-Bromofluorobenzene		95.0 %	80-12	20	**	n	n	n	/
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	1
Diesel Range Organics >C12-C35	ND	10.0	н	**	11	11	"	н	7
Total Hydrocarbon C6-C35	ND	10.0	н	#	tr .	"	"	н	
·									

Environmental Lab of Texas

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

Fax: (432) 687-4914

Reported:
07/11/05 16:53

### Organics by GC

### **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Datah	Dunnan d	A malama d	Mash - J	NI
WE E-6 (5G05006-13) Soil	- Coun	Limit	Omis	Dilution	Batch	Prepared	Analyzed	Method	Notes
Surrogate: 1-Chlorooctane		84.6 %	70-1	30	EG50604	07/06/05	07/06/05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		103 %	70-1		"	"	u	"	
WE E-12 (5G05006-14) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50809	07/08/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	н	н	"	**	11	11	
Ethylbenzene	ND	0.0250	"	н	"	и	и	11	
Xylene (p/m)	ND	0.0250	**	**	ii .	H	11	н	
Xylene (o)	ND	0.0250	"	**	"	n	и	31	
Surrogate: a,a,a-Trifluorotoluene		88.7 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		94.3 %	80-1	20	"	<i>n</i>	"	"	
Gasoline Range Organics C6-C12	23.2	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	209	10.0	"	н	#	11	"	н	
Total Hydrocarbon C6-C35	232	10.0	н	••	"	**	n	11 .	
Surrogate: 1-Chlorooctane		92.4 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		106 %	70-1.	30	"	"	n	n	
WE B-1 (5G05006-15) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50809	07/08/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	11	"	**	n	11	n	
Ethylbenzene	ND	0.0250	n	"	н	"	н	11	
Xylene (p/m)	ND	0.0250	11	u	n	11	11	u	
Xylene (o)	ND	0.0250	"	•	"	**	**	"	
Surrogate: a,a,a-Trifluorotoluene		94.0 %	80-1.	20	n	11	"	"	
Surrogate: 4-Bromofluorobenzene		90.7 %	80-1.	20	10	"	n	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	"	11	n .	**	"	
Total Hydrocarbon C6-C35	ND	10.0	n	**	n	n	Ħ	11	
Surrogate: 1-Chlorooctane		83.0 %	70-1.	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		98.0 %	70-1.	30	"	"	"	"	

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### Organics by GC Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
WE B-2 (5G05006-16) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50809	07/08/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	u	н	"	"	н	tf.	
Ethylbenzene	ND	0.0250	m .	"	n	11	Ħ	11	
Xylene (p/m)	ND	0.0250	"	"	u	н	n	"	
Xylene (o)	ND	0.0250	**		ų	11	n	"	
Surrogate: a,a,a-Trifluorotoluene		89.7 %	80-1	20	,,	"	,,	n.	
Surrogate: 4-Bromofluorobenzene		84.0 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	**	и	"	н	"	
Total Hydrocarbon C6-C35	ND	10.0	**		11		11	"	
Surrogate: 1-Chlorooctane		76.4 %	70-1	30		11	н	11	
Surrogate: 1-Chlorooctadecane		93.6 %	70-1	30	"	"	"	"	
WE B-3 (5G05006-17) Soil		•			age was a			,	
Benzene	ND	0.0250	mg/kg dry	25	EG50809	07/08/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	11	**	11	"	11	n	
Ethylbenzene	ND	0.0250	н	"		u	н	ĬĬ	
Xylene (p/m)	ND	0.0250	н		**	"	n	n	
Xylene (o)	ND	0.0250	**	"	n	**	**	II	
Surrogate: a,a,a-Trifluorotoluene		89.4 %	80-1	20	"	<i>n</i>	"	"	
Surrogate: 4-Bromofluorobenzene		81.1 %	80-1	20	n	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	11	**	**	"	**	
Total Hydrocarbon C6-C35	ND	10.0	w	**	"	"	п	n	
Surrogate: 1-Chlorooctane		79.4 %	70-1	30	ñ	"	"	"	
Surrogate: 1-Chlorooctadecane		96.8 %	70-1.	30	"	"	"	"	
WE B-4 (5G05006-18) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50809	07/08/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	**	11	"	н	11	u	
Ethylbenzene	ND	0.0250	"	**	**	n	"	**	
Xylene (p/m)	ND	0.0250	"	**	**	u	"	**	
Xylene (o)	ND	0.0250	11		"	II	"	11	
Surrogate: a,a,a-Trifluorotoluene		86.8 %	80-1.	20	"	"	"	n	
Surrogate: 4-Bromofluorobenzene		83.9 %	80-1.	20	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	**	Ħ	n	н	"	**	
Total Hydrocarbon C6-C35	ND	10.0	п	и	*	11	"	u	

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Project Manager: Camille Reynolds

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### Organics by GC Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
WE B-4 (5G05006-18) Soil								-	
Surrogate: 1-Chlorooctane		75.6 %	70-	130	EG50604	07/06/05	07/06/05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		90.8 %	70-1	130	"	"	п	n	
WE B-5 (5G05006-19) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50809	07/08/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	u	11	"	11	**	**	
Ethylbenzene	ND	0.0250	"	п	"	"	n	n	
Xylene (p/m)	ND	0.0250	н	"	и	"	11	n	
Xylene (o)	ND	0.0250	"	n	и	"	н	"	
Surrogate: a,a,a-Trifluorotoluene		88.9 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.8 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	_ 10.0	н	"	11	"	n	11	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	н	"	н -	
Surrogate: 1-Chlorooctane		78.2 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		94.6 %	70-1	30	"	"	"	rr .	
WE B-6 (5G05006-20) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EG50809	07/08/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	**	"	H	н -	"	н	
Ethylbenzene	J [0.0200]	0.0250	н	**	"	"	н	**	J
Xylene (p/m)	0.104	0.0250	н ,	**	**	11	н	"	
Xylene (o)	0.0371	0.0250	н		H	н	u	н	
Surrogate: a,a,a-Trifluorotoluene		85.3 %	80-1	20	n	n	"	"	
Surrogate: 4-Bromofluorobenzene		106 %	80-1	20	<b>5</b>	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	н		11	u	"	**	
Total Hydrocarbon C6-C35	ND	10.0	н	"	"	и	"	"	
Surrogate: 1-Chlorooctane		81.6 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		97.2 %	70-1	30	"	"	"	"	

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### Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WE M-B (5G05006-21) Soil									
Benzene	J [0.0179]	0.0250	mg/kg dry	25	EG50809	07/08/05	07/08/05	EPA 8021B	
Toluene	0.0823	0.0250	n	ŧı	"	и	11	ч	
Ethylbenzene	0.161	0.0250	u	"	11	u	11	v	
Xylene (p/m)	1.01	0.0250	"	n	11	t)	н	u	
Xylene (0)	0.539	0.0250	11	11	11	ii .	н	**	
Surrogate: a,a,a-Trifluorotoluene		90.5 %	80-1	20	n	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.2 %	80-1	20	,,	"	n	n	
Gasoline Range Organics C6-C12	240	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	3220	10.0	"	"	**	"	11	**	
Total Hydrocarbon C6-C35	3460	10.0	11	"	**	11	"	"	
Surrogate: 1-Chlorooctane		90.6 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		109 %	70-1	30	"	"	n	"	
WE M-E (5G05006-22) Soil		-							
Benzene	ND	0.0250	mg/kg dry	25	EG50809	07/08/05	07/08/05	EPA 8021B	
Toluene	ND	0.0250	н	11	н	11	n	· ·	
Ethylbenzene	ND	0.0250	Ħ	**	"	"	"	11	
Xylene (p/m)	ND	0.0250	"	11	" .	и	**	•	
Xylene (o)	ND	0.0250	и	**	"	n	n	п	
Surrogate: a,a,a-Trifluorotoluene		85.8 %	80-1	20	"	" . '	"	"	
Surrogate: 4-Bromofluorobenzene		86.1 %	80-1.	20	"	"	"	u	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EG50604	07/06/05	07/06/05	EPA 8015M	
Diesel Range Organics >C12-C35	353	10.0		11	и	11	n	н	
Total Hydrocarbon C6-C35	353	10.0	11	"	"		M	#	
Surrogate: 1-Chlorooctane		82.6 %	70-1.	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		109 %	70-1.	30	"	"	"	"	

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

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### General Chemistry Parameters by EPA / Standard Methods **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method ·	Notes
WE N-2 (5G05006-01) Soil	···							····	
% Moisture	14.4	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE N-3 (5G05006-02) Soil									
% Maisture	25.1	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE N-5 (5G05006-03) Soil									
% Moisture	5.4	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE W-3 (5G05006-04) Soil									
% Moisture	21.0	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE W-5 (5G05006-05) Soil									
% Moisture	11.2	- 0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE W-9 (5G05006-06) Soil									
% Moisture	0.4	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE W-13 (5G05006-07) Soil									
% Moisture	49.7	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE W-17 (5G05006-08) Soil				_					
% Moisture	5.2	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE S-1 (5G05006-09) Soil					٠				
% Moisture	16.1	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE S-3 (5G05006-10) Soil									
% Moisture	18.6	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	
WE E-2 (5G05006-11) Soil									
6 Moisture	18.2	0.1	%	1	EG50601	07/05/05	07/06/05	% calculation	

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### General Chemistry Parameters by EPA / Standard Methods Environmental Lab of Texas

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

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Limit	Units	Level	Result	70KEC	Limits	KFD	Limit	notes
Batch EG50518 - Solvent Extraction (GC)		·····								
Blank (EG50518-BLK1)				Prepared &	& Analyzed:	07/05/05				
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	"							
Fotal Hydrocarbon C6-C35	ND	10.0	11							
Surrogate: 1-Chlorooctane	37.6		mg/kg	50.0		75.2	70-130			
urrogate: 1-Chlorooctadecane	38.5		"	50.0		77.0	70-130			
LCS (EG50518-BS1)				Prepared &	Analyzed:	07/05/05				
Gasoline Range Organics C6-C12	388	10.0	mg/kg wet	500		77.6	75-125			
Diesel Range Organics >C12-C35	571	10.0	"	500		114	75-125			
otal Hydrocarbon C6-C35	959	10.0	v	1000		95.9	75-125			
urrogate: I-Chlorooctane	42.7		mg/kg	50.0		85.4	70-130			
urrogate: 1-Chlorooctadecane	38.3		"	50.0		76.6	70-130			
Calibration Check (EG50518-CCV1)				Prepared: 0	07/05/05 Ai	nalyzed: 07	/06/05			
asoline Range Organics C6-C12	484	•	mg/kg	500		96.8	80-120			
tiesel Range Organics >C12-C35	555		**	500		111	80-120			
otal Hydrocarbon C6-C35	1040		11	1000		104	80-120			
urrogate: 1-Chlorooctane	55.9		"	50.0		112	70-130			
urrogate: 1-Chlorooctadecane	50.3		"	50.0		101	70-130			
1atrix Spike (EG50518-MS1)	Sour	ce: 5G05004	<b>01</b>	Prepared &	: Analyzed:	07/05/05				
asoline Range Organics C6-C12	420	10.0	mg/kg dry	506	ND	83.0	75-125			
riesel Range Organics >C12-C35	544	10.0	н	506	26.0	102	75-125			
otal Hydrocarbon C6-C35	963	10.0	н	1010	26.0	92.8	75-125			
urrogate: 1-Chlorooctane	48.8		mg/kg	50.0		97.6	70-130			
urrogate: 1-Chlorooctadecane	44.8		"	50.0		89.6	70-130			
Iatrix Spike Dup (EG50518-MSD1)	Sour	ce: 5G05004	l <b>-</b> 01	Prepared &	: Analyzed:	07/05/05				
asoline Range Organics C6-C12	427	10.0	mg/kg dry	506	ND	84.4	75-125	1.65	20	
iesel Range Organics >C12-C35	564	10.0	**	506	26.0	106	75-125	3.61	20	
otal Hydrocarbon C6-C35	990	10.0	#	1010	26.0	95.4	75-125	2.76	20	
urrogate: 1-Chlorooctane	49.3		mg/kg	50.0		98.6	70-130			
urrogate: 1-Chlorooctadecane	45.5		"	50.0		91.0	70-130			

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A Lan	D - 1	Reporting		Spike	Source	0/050	%REC	DDD	RPD	×1 .
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EG50604 - Solvent Extraction (GC)										
Blank (EG50604-BLK1)				Prepared &	Analyzed:	07/06/05				
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0								
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	36.9		mg/kg	50.0		73.8	70-130		<del></del>	
Surrogate: 1-Chlorooctadecane	37.7		n	50.0		75.4	70-130			
LCS (EG50604-BS1)				Prepared &	Analyzed:	07/06/05				
Gasoline Range Organics C6-C12	379	10.0	mg/kg wet	500		75.8	75-125			
Diesel Range Organics >C12-C35	565	10.0	**	500		113	75-125			
Total Hydrocarbon C6-C35	944	10.0	н	1000		94.4	75-125			
Surrogate: 1-Chlorooctane	43.5		mg/kg	50.0		87.0	70-130	·		
Surrogate: 1-Chlorooctadecane	40.2		"	50.0		80.4	70-130			
Calibration Check (EG50604-CCV1)				Prepared &	Analyzed:	07/06/05				
Gasoline Range Organics C6-C12	439		mg/kg	500	164 Var. 1	87.8	80-120	7,7		
Diesel Range Organics >C12-C35	546		"	500		109	80-120			
Total Hydrocarbon C6-C35	985		"	1000		98.5	80-120			
Surrogate: 1-Chlorooctane	51.1		"	50.0		102	70-130			
Surrogate: 1-Chlorooctadecane	46.0		n	50.0		92.0	70-130			
Matrix Spike (EG50604-MS1)	Sou	rce: 5G05007	7-05	Prepared &	Analýzed:	07/06/05				
Gasoline Range Organics C6-C12	523	10.0	mg/kg dry	586	ND	89.2	75-125		· · · · · · · · · · · · · · · · · · ·	
Diesel Range Organics >C12-C35	645	10.0		586	ND	110	75-125			
Total Hydrocarbon C6-C35	1170	10.0	"	1170	ND	100	75-125			
Surrogate: 1-Chlorooctane	56.2		mg/kg	50.0		112	70-130			
Surrogate: 1-Chlorooctadecane	51.2		"	50.0		102	70-130			
Matrix Spike Dup (EG50604-MSD1)	Sou	rce: 5G05007	<b>7-05</b>	Prepared &	Analyzed:	07/06/05				
Gasoline Range Organics C6-C12	522	10.0	mg/kg dry	586	ND	89.1	75-125	0.191	20	
Diesel Range Organics >C12-C35	619	10.0	н	586	ND	106	75-125	4.11	20	
Total Hydrocarbon C6-C35	1140	10.0	17	1170	ND	97.4	75-125	2.60	20	
Surrogate: 1-Chlorooctane	56.2		mg/kg	50.0		112	70-130			
Surrogate: 1-Chlorooctadecane	50.8		"	50.0		102	70-130			

Project Number: 2002-10248
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Reported:** 07/11/05 16:53

A malada	* .	Reporting	TT 1.	Spike	Source	0/050	%REC	DDD	RPD	3.7 .
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EG50805 - EPA 5030C (GC)							· · · · · · · · · · · · · · · · · · ·			
Blank (EG50805-BLK1)				Prepared &	Analyzed:	07/07/05				
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	115		ug/kg	100		115	80-120			
lurrogate: 4-Bromofluorobenzene	98.3		"	100		98.3	80-120			
.CS (EG50805-BS1)				Prepared &	Analyzed:	07/07/05				
Benzene	111		ug/kg	100	±.···	111	80-120			
Coluene	110		"	100		110	80-120			
Ethylbenzene	110		"	100		110	80-120			
Kylene (p/m)	218		"	200 .		109	80-120			
Kylene (o)	114		"	100		114	80-120			
Surrogate: a,a,a-Trifluorotoluene	99.4		"	100		99.4	80-120		•	
urrogate: 4-Bromofluorobenzene	99.0		"	100		99.0	80-120			
Calibration Check (EG50805-CCV1)				Prepared &	Analyzed:	07/07/05				
Benzene	114		ug/kg	100		114	80-120			
Coluene	113		**	100		113	80-120			
Ethylbenzene	111			100	•	111	80-120			
(ylene (p/m)	220		**	200		110	80-120			
(ylene (o)	116		**	100		116	80-120			
Surrogate: a,a,a-Trifluorotoluene	112		n	100		112	80-120			
Surrogate: 4-Bromofluorobenzene	113		"	100		113	80-120			
Matrix Spike (EG50805-MS1)	Sour	rce: 5G05006	-09	Prepared: 0	7/07/05 An	alyzed: 07	/08/05			
Benzene	107		ug/kg	100	ŅD	107	80-120			
oluene	107			100	ND	107	80-120			
Ethylbenzene	109		"	100	ND	109	80-120			
Kylene (p/m)	215		н	200	ND	108	80-120			
(ylene (o)	110		н	100	ND	110	80-120			
urrogate: a,a,a-Trifluorotoluene	103		"	100		103	80-120			
urrogate: 4-Bromofluorobenzene	104		"	100		104	80-120			

Project: Vacuum 10" to Jal
Project Number: 2002-10248

Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported: 07/11/05 16:53

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG50805 - EPA 5030C (GC)										
Matrix Spike Dup (EG50805-MSD1)	Sour	ce: 5G05006	i-09	Prepared: 0	)7/07/05 Ar	1alyzed: 07	/08/05			
Benzene	108		ug/kg	100	ND	108	80-120	0.930	20	
Toluene	107		"	100	ND	107	80-120	0.00	20	
Ethylbenzene	105		II	100	ND	105	80-120	3.74	20	
Xylene (p/m)	206		"	200	ND	103	80-120	4.74	20	
Xylene (o)	101		и	100	ND	101	80-120	8.53	20	
Surrogate: a,a,a-Trifluorotoluene	104		,	100		104	80-120			
Surrogate: 4-Bromofluorobenzene	94.0		"	100		94.0	80-120			
Batch EG50809 - EPA 5030C (GC)										
Blank (EG50809-BLK1)				Prepared &	Analyzed:	07/08/05				
Benzene	ND	0.0250	mg/kg wet							
Гоluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	**							
Xylene (p/m)	ND	0.0250	н							
Xylene (o)	ND	0.0250	"							
Surrogate: a,a,a-Trifluorotoluene	93.1		ug/kg	100		93.1	80-120			-
Surrogate: 4-Bromofluorobenzene	84.3		"	100		84.3	80-120			
LCS (EG50809-BS1)				Prepared &	Analyzed:	07/08/05				
Benzene	99.0		ug/kg	100	•	99.0	80-120			
Γoluene	99.1		"	100		99.1	80-120			
Ethylbenzene	99.7		**	100		99.7	80-120			
Xylene (p/m)	196		и	200		98.0	80-120			
Xylene (o)	98.3		п	100		98.3	80-120			
Surrogate: a,a,a-Trifluorotoluene	88.8		"	100		88.8	80-120			
Surrogate: 4-Bromofluorobenzene	90.8		"	100		90.8	80-120			

Project: Vacuum 10" to Jal
Project Number: 2002-10248

Project Number: 2002-102-6

Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Reported:** 07/11/05 16:53

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EG50809 - EPA 5030C (GC)										
Calibration Check (EG50809-CCV1)				Prepared: 0	07/08/05 A	nalyzed: 07	//11/05			
Benzene	87.0		ug/kg	100		87.0	80-120			
Toluene	85.6		**	100		85.6	80-120			
Ethylbenzene	80.5		,11	100		80.5	80-120			
Xylene (p/m)	161		"	200		80.5	80-120			
Xylene (o)	82.6		**	100		82.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	85.6		"	100		85.6	80-120			
Surrogate: 4-Bromofluorobenzene	81.4		"	100		81.4	80-120			
Matrix Spike (EG50809-MS1)	Sour	ce: 5G05007-0	08	Prepared: 0	7/08/05 At	nalyzed: 07	/11/05			
Benzene	2080		ug/kg	2500	ND	83.2	80-120			
Toluene	2080		*1	2500	ND	83.2	80-120			
Ethylbenzene	2060		H	2500	ND	82.4	80-120			
Xylene (p/m)	4180		**	5000	75.4	82.1	80-120			
Xylene (o)	2070	-	"	2500	32.8	81.5	80-120			
Surrogate: a,a,a-Trifluorotoluene	80.1		"	100		80.1	80-120			
Surrogate: 4-Bromofluorobenzene	82.3		"	100		82.3	80-120			
Matrix Spike Dup (EG50809-MSD1)	Sour	ce: 5G05007-0	08	Prepared &	Analyzed:	07/08/05				
Benzene	2120		ug/kg	2500	ND	84.8	80-120	1.90	20	
Toluene	2110		**	2500	ND	84.4	80-120	1.43	20	
Ethylbenzene	2170		"	2500	ND	86.8	80-120	5.20	20	
Kylene (p/m)	4210		11	5000	75.4	82.7	. 80-120	0.728	20	
Kylene (o)	2200		11	2500	32.8	86.7	80-120	6.18	20	
Surrogate: a,a,a-Trìfluorotoluene	81.6		,,	100		81.6	80-120			
Surrogate: 4-Bromofluorobenzene	84.8		"	100		84.8	80-120			

Project: Vacuum 10" to Jal

Project Number: 2002-10248

Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Reported:** 07/11/05 16:53

### General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG50601 - General Preparation	n (Prep)									
Blank (EG50601-BLK1)				Prepared: (	07/05/05 A	nalyzed: 07	//06/05			
% Moisture	ND	0.1	%		-					
Duplicate (EG50601-DUP1)	Sour	ce: 5G05001-	01	Prepared: (	)7/05/05 A	nalyzed: 07	/06/05			
% Moisture	5.1	0.1	%		4.4			14.7	20	

Plains All American EH & S
Project: Vacuum 10" to Jal
Fax: (432) 687-4914
1301 S. County Road 1150
Project Number: 2002-10248
Midland TX, 79706-4476
Project Manager: Camille Reynolds
O7/11/05 16:53

### **Notes and Definitions**

Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag). DET Analyte DETECTED Analyte NOT DETECTED at or above the reporting limit ND NR Not Reported Sample results reported on a dry weight basis dry RPD Relative Percent Difference Laboratory Control Spike LCS MS Matrix Spike Duplicate Dup

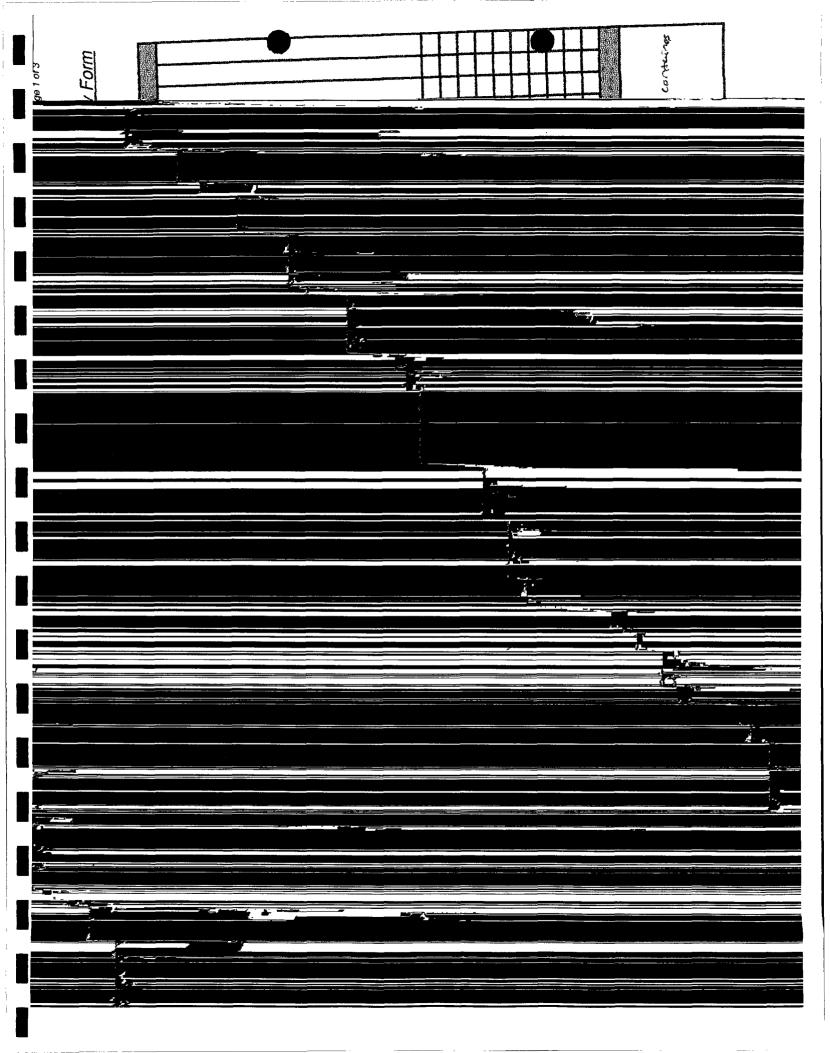
	Kaland Khul		
Report Approved By:	Racancha	Date:	7/11/2005

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

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

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

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



Chain of Custody Form

# Environmental Labs of Texas

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### Chain of Custody Form

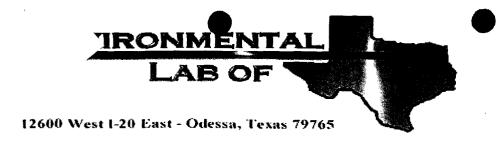
## Environmental Labs of Texas

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

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Variance / Corrective Action Report - Sample Log-In

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esing container/cooler in good condition?	YES	No	:	
stody Seals intact on shipping container/occler?	735 1	No	LIGI DI BER	
stody Seals intact on sample bottles?	1255	Nic	Not present	i
ain of custody present?	FEE)	No	i morandami	4.1
mpie Instructions complete on Chain of Custody?		······································		•
	1000	No.		
ain of Custody signed when relinquished and received?	18:31	<u>No</u>	·	
ain of custody agrees with sample label(s)	(63.7)	No	(	
ntainer labels legible and intact?	253	No		
mple Matrix and procentes same as on chain of custody?	) Xes	No		
ncies in procer container/bottle?	73	No	1	
ncies procedy preserved?		No	* <u> </u>	
ncie botties intact?	(/as)		·	•
				: •
servations documented on Chain of Custody?	(2)	<u>Ns-</u>		•
ntainers documented on Chain of Custody?	C=2	No	·	
ficient sample amount for indicated test?	(Yes)	No	1	į
samples received within sufficient hold time?		_ No		
C samples have zero headspace?	18	No	Not Applicable	
ther observations:	ig aggregate de distribute de para de sentant e en en distribute de la constitución de la constitución de la c			
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### Analytical Report

### Prepared for:

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

Project: Vacuum 10" to Jal 🔑

Project Number: 2002-10248

Location: None Given

Lab Order Number: 5G12009

Report Date: 07/14/05

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

Fax: (432) 687-4914

Reported:
07/14/05 17:06

### ANALYTICAL REPORT FOR SAMPLES

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

Project: Vacuum 10" to Jal
Project Number: 2002-10248

Project Number: 2002-10248

Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported: 07/14/05 17:06

### Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WE N-6 (5G12009-01) Soil			····					., -	
Benzene	ND	0.0250	mg/kg dry	25	EG51305	07/13/05	07/13/05	EPA 8021B	
Toluene	ND	0.0250	"		n	н	**	11	
Ethylbenzene	ND	0.0250	11	"	**	11	**	н	
Xylene (p/m)	0.0460	0.0250	"		"	н	n	"	
Xylene (o)	ND	0.0250	"	"	n	"	и	**	
Surrogate: a,a,a-Trifluorotoluene		103 %	80-12	20	"	,,	"	"	
Surrogate: 4-Bromofluorobenzene		112 %	80-12	20	"	"	"	"	
Gasoline Range Organics C6-C12	645	10.0	mg/kg dry	1	EG51207	07/12/05	07/12/05	EPA 8015M	
Diesel Range Organics >C12-C35	10400	10.0	н	n	"	*	n	и	
Total Hydrocarbon C6-C35	11000	10.0	II.	и	"	n	"	н	
Surrogate: 1-Chlorooctane		79.4 %	70-13	30	"	"	r r	"	100
Surrogate: 1-Chlorooctadecane		238 %	70-13	80	"	"	"	n	S-04

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

Fax: (432) 687-4914 Reported:

07/14/05 17:06

### General Chemistry Parameters by EPA / Standard Methods **Environmental Lab of Texas**

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

Project: Vacuum 10" to Jal

Project Number: 2002-10248
Project Manager: Camille Reynolds

Fax: (432) 687-4914

**Reported:** 07/14/05 17:06

Analyte	Result	Reporting Limit		Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG51207 - Solvent Extraction (GC)										
Blank (EG51207-BLK1)			_	Prepared &	: Analyzed:	07/12/05				
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet	<u> </u>						
Diesel Range Organics >C12-C35	ND	10.0	и							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	37.4		mg/kg	50.0		74.8	70-130			
Surrogate: 1-Chlorooctadecane	35.8		"	50.0		71.6	70-130			
LCS (EG51207-BS1)				Prepared &	Analyzed:	07/12/05				
Gasoline Range Organics C6-C12	457	10.0	mg/kg wet	500		91.4	75-125			
Diesel Range Organics >C12-C35	487	10.0	11	500		97.4	75-125			
Total Hydrocarbon C6-C35	944	10.0	11	1000		94.4	75-125			
Surrogate: 1-Chlorooctane	37.0		mg/kg	50.0		74.0	70-130			
Surrogate: 1-Chlorooctadecane	35.5		n	50.0		71.0	70-130			
Calibration Check (EG51207-CCV1)				Prepared &	Analyzed:	07/12/05				
Gasoline Range Organics C6-C12	570	•	mg/kg	500		114	80-120			
Diesel Range Organics >C12-C35	571		**	500		114	80-120			
Total Hydrocarbon C6-C35	1140		n	1000		114	80-120			
Surrogate: 1-Chlorooctane	49.7	*	"	50.0		99.4	70-130			·
Surrogate: 1-Chlorooctadecane	41.2		"	50.0		82.4	70-130			
Matrix Spike (EG51207-MS1)	Sou	rce: 5G12001	l- <b>01</b>	Prepared &	Analyzed:	07/12/05				
Gasoline Range Organics C6-C12	572	10.0	mg/kg dry	506	ND	113	75-125			
Diesel Range Organics >C12-C35	597	10.0	**	506	49.8	108	75-125			
Total Hydrocarbon C6-C35	1170	10.0	"	1010	49.8	111	75-125			
Surrogate: 1-Chlorooctane	48.9	# 1 TF 1 TF 1 TF 1 TF 1 TF 1 TF 1 TF 1 T	mg/kg	50.0		97.8	70-130			
Surrogate: 1-Chlorooctadecane	40.9		"	50.0		81.8	70-130			
Matrix Spike Dup (EG51207-MSD1)	Sou	rce: 5G12001	1-01	Prepared &	Analyzed:	07/12/05				
Gasoline Range Organics C6-C12	525	10.0	mg/kg dry	506	ŃD	104	75-125	8.57	20	
Diesel Range Organics >C12-C35	585	10.0	u	506	49.8	106	75-125	2.03	20	
Total Hydrocarbon C6-C35	1110	10.0	11	1010	49.8	105	75-125	5.26	20	
Surrogate: 1-Chlorooctane	47.8		mg/kg	50.0		95.6	70-130			
Surrogate: 1-Chlorooctadecane	40.3		**	50.0		80.6	70-130			

Project: Vacuum 10" to Jal

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**Reported:** 07/14/05 17:06

		ъ .		0.3			A/PEC		D.P.P.	
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG51305 - EPA 5030C (GC)									····	
Blank (EG51305-BLK1)				Prepared &	Δnalvzed:	07/13/05				
Benzene	ND	0.0250	mg/kg wet	1 repared &	Allaryzeu.					
Toluene	ND	0.0250	mg/kg wer							
Ethylbenzene	ND	0.0250	ш							
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250	**							
Surrogate: a,a,a-Trifluorotoluene	87.2		ug/kg	100		87.2	80-120			
Surrogate: 4-Bromofluorobenzene	111		ug/kg "	100		111	80-120			
Burrogaie. 4-Bromojiaorobenzene	111			100		111	00 120			
LCS (EG51305-BS1)				Prepared &	Analyzed:	07/13/05				
Benzene	114		ug/kg	100		114	80-120			
Toluene	115		11	100		115	80-120			
Ethylbenzene	113		**	100		113	80-120			
Xylene (p/m)	202		**	200		101	80-120			
Xylene (o)	120	-		100		120	80-120			
Surrogate: a,a,a-Trifluorotoluene	87.6		n	100		87.6	80-120			
Surrogate: 4-Bromofluorobenzene	112		U	100		112	80-120			
Calibration Check (EG51305-CCV1)				Prepared: 0	7/13/05 Ar	nalyzed: 07	/14/05			
Benzene	109		ug/kg	100		109	80-120			
Toluene	114		n	100		114	80-120			
Ethylbenzene	111		и	100	•	111	80-120			
Xylene (p/m)	202		"	200		101	80-120			
Xylene (o)	119		"	100		119	80-120			
Surrogate: a,a,a-Trifluorotoluene	87.8		"	100		87.8	80-120			
Surrogate: 4-Bromofluorobenzene	105		n	100		105	80-120			
Matrix Spike (EG51305-MS1)	Sour	rce: 5G12007	-02	Prepared: 0	7/13/05 Ar	nalyzed: 07/	/14/05			
Benzene	116		ug/kg	100	ЙD	116	80-120			
Toluene	118		n	100	ND	118	80-120			
Ethylbenzene	119		"	100	ND	119	80-120			
Xylene (p/m)	230		"	200	ND	115	80-120			
Xylene (o)	117		**	100	ND	117	80-120			
Surrogate: a,a,a-Trifluorotoluene	102		- n	100		102	80-120			
Surrogate: 4-Bromofluorobenzene	110		"	100		110	80-120			

Project: Vacuum 10" to Jal
Project Number: 2002-10248

Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported: 07/14/05 17:06

Analyte	Result	Reporting Limit Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG51305 - EPA 5030C (GC)									
Matrix Spike Dup (EG51305-MSD1)	Source	ce: 5G12007-02	Prepared:	07/13/05 A	nalyzed: 0	7/14/05		<del>-</del> "	
Benzene	111	ug/kg	100	ND	111	80-120	4.41	20	
Toluene	117	#	100	ND	117	80-120	0.851	20	
Ethylbenzene	113	и	100	ND	113	80-120	5.17	20	
Xylene (p/m)	207	"	200	ND	104	80-120	10.0	20	
Xylene (o)	118	**	100	ND	118	80-120	0.851	20	
Surrogate: a,a,a-Trifluorotoluene	85.3		100		85.3	80-120			
Surrogate: 4. Bromofluorohenzene	106	"	100		106	80-120			

Project: Vacuum 10" to Jal

Project Number: 2002-10248
Project Manager: Camille Reynolds

Fax: (432) 687-4914

Reported: 07/14/05 17:06

### General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EG51301 - General Preparati	on (Prep)									
Blank (EG51301-BLK1)				Prepared: 0	07/12/05 A	nalyzed: 07	7/13/05			
% Moisture	ND	0.1	%							
Duplicate (EG51301-DUP1)	Sour	ce: 5G11013-	01	Prepared: 0	07/12/05 A	nalyzed: 07	//13/05			
% Moisture	5.2	0.1	%		4.4			16.7	20	

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

**Reported:** 07/14/05 17:06

Fax: (432) 687-4914

**Notes and Definitions** 

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

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

Raland Kethal

Date:

7/14/2005

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

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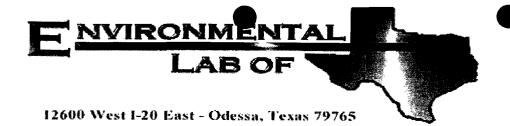
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# Environmental Labs of Texas

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

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Environmental Plus, Inc.	ness	P.O. BOX 1558	Eunice New Mexico 88	505-394-3481 / 505-394	Plains All American	Vacuum 10" to Jal	0248	Roger Boone		E 1.0.										1000年	11: 02 Time 11: 03	Tine 6:00	Sample Cool & Intact	
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Company Name	EPI Project Manager	Mailing Address	City, State, Zip	EPI Phone#/Fax#	Client Company	Facility Name	Project Reference	EPI Sampler Name		500 P	F O	2	<b>©</b>	4	5	9 1	, 6	0 6	10		Sampler Balinquished:	Refinquished by	Deli∳ered by:	Market and Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the C

EDVILOUMENTED FOR OF 1600-Variance / Corrective Action Report - Samula Log-In lant. nitiaist Sample Receipt Checklist emperature of container/cooler? Yas ! hading containstitudier in good condition? none Yes istogy Seals intaction shipping contained/occler? 100 usingly Seeks intaction sample bottles? Nic Figt grasent (F3) hain of ousion's crasent? Sample Instructions complete on Chain of Custody? YES NIC 1 heir of Gustody signed when relincuished and received? Chain of custody agrees with sample lacel(s. (3) catainer lacels lecible and intact? (EEX 1 YES) No Sample Matrix and properties same as on chain of custod/? **(53)** Samples in procer containembodie? ( Page ) Sample bottles (ctact?) (3) Freservations occumented on Chain of Custodis? Containers accumented on Chain of Custody? Sufficient semo e amount for incloated test? All samples received within sufficient hold time? . DO samo es neve dero headscape? Ciner coservations: Variance Documentation: _ Date/Time: _____ Contacted by: _____ Corrective Action Taxent



## Analytical Report

### Prepared for:

Camille Reynolds
Plains All American EH & S
1301 S. County Road 1150

Midland, TX 79706-4476

Project: Vacuum 10" to Jal

Project Number: 2002-10248

Location: None Given

Lab Order Number: 5I20006

Report Date: 09/28/05

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

Fax: (432) 687-4914

Reported: 09/28/05 13:54

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-9 (5')	5120006-01	Soil	09/16/05 11:30	09/20/05 12:17
MW-9 (10')	5I20006-02	Soil	09/16/05 11:43	09/20/05 12:17
MW-9 (15')	5I20006-03	Soil	09/16/05 11:52	09/20/05 12:17
MW-9 (18')	5120006-04	Soil	09/16/05 12:04	09/20/05 12:17
MW-9 (20')	5120006-05	Soil	09/16/05 12:13	09/20/05 12:17

Project: Vacuum 10" to Jal
Project Number: 2002-10248

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# Organics by GC Environmental Lab of Texas

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Not
MW-9 (5') (5120006-01) Soil	<del></del>					<del> </del>			
Benzene	ND	0.0250	mg/kg dry	25	EI52303	09/23/05	09/24/05	EPA 8021B	
Toluene	ND	0.0250	и	**	**	w	**	н	
Ethylbenzene	ND	0.0250	11	11	n	**	11	11	
Xylene (p/m)	ND	0.0250	n	н	"	11	**	"	
Xylene (o)	ND	0.0250	u	**	11	"	н	11	
Surrogate: a,a,a-Trifluorotoluene		84.8 %	80-1	20	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		111 %	80-1	20	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI52106	09/21/05	09/22/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	"	11	n	"	"	**	
Total Hydrocarbon C6-C35	ND	10.0	n	н	н	**	"	н	
Surrogate: 1-Chlorooctane		85.0 %	70-1	30	"	"	"	"	
Surrogate: 1-Chlorooctadecane		90.6 %	70-1	30	"	"	"	"	
MW-9 (10') (5I20006-02) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI52303	09/23/05	09/24/05	EPA 8021B	
Toluene	ND	0.0250	"	**	n	"	#	n .	
Ethylbenzene	ND	0.0250		"	н	11	"	***	
Xylene (p/m)	0.0370	0.0250	"		,,		11	**	
Xylene (o)	ND	0.0250	n	"	" ,	11	H	**	
Surrogate: a,a,a-Trifluorotoluene	A-A-1	86.0 %	80-1	20	"	" .	"	"	
Surrogate: 4-Bromofluorobenzene		115 %	80-1.	20	,,	n	н	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI52106	09/21/05	09/21/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0		"	II.	и		**	
Total Hydrocarbon C6-C35	ND	10.0	"	W	n	n	n	11	
Surrogate: 1-Chlorooctane		77.6 %	70-1	30	n.	"	"	n	
Surrogate: 1-Chlorooctadecane		97.0 %	70-1.	30	"	#	"	"	
MW-9 (15') (5I20006-03) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI52303	09/23/05	09/24/05	EPA 8021B	
Toluene	ND	0.0250	u	**	•	Ħ	"	"	
Ethylbenzene	ND	0.0250	n	"	"	**	u	н	
Xylene (p/m)	ND	0.0250	11	**	"	11	"	"	
Xylene (o)	ND	0.0250		**		**	u	н	
Surrogate: a,a,a-Trifluorotoluene		87.2 %	80-1.	20	"	"	"	п	
Surrogate: 4-Bromofluorobenzene		80.0 %	80-1.	20	"	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI52106	09/21/05	09/21/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	#	**	н	11	v	"	
Total Hydrocarbon C6-C35	ND	10.0	"	•		11	**	n	

Environmental Lab of Texas

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

Project: Vacuum 10" to Jal

Project Number: 2002-10248
Project Manager: Camille Reynolds

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# Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dil. di	D l			<b>34</b> d . 1	
MW-9 (15') (5I20006-03) Soil	resun	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
								· · · · · · · · · · · · · · · · · · ·	
Surrogate: 1-Chlorooctane		74.4 %	70-1.		EI52106	09/21/05	09/21/05	EPA 8015M	
Surrogate: 1-Chlorooctadecane		98.4 %	70-1.	30	"	"	"	tt	
MW-9 (18') (5120006-04) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI52303	09/23/05	09/24/05	EPA 8021B	
Toluene	ND	0.0250	u	н	H	**	н	"	
Ethylbenzene	ND	0.0250	n	**	н	11	11	**	
Xylene (p/m)	ND	0.0250	u	"	n	u u	**	11	
Xylene (o)	ND	0.0250	v	u	11	"	**	и	
Surrogate: a,a,a-Trifluorotoluene		80.8 %	80-12	0	"	"	"	n .	
Surrogate: 4-Bromofluorobenzene		85.2 %	80-12	0	"	"	"	n	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI52106	09/21/05	09/21/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	11	"	**	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	11	n	,,	"	n	re <u>-</u>	
Surrogate: 1-Chlorooctane		76.8 %	70-13	0	"	u u	"	n .	
Surrogate: 1-Chlorooctadecane		96.6 %	70-13	0	"	"	n	"	
MW-9 (20') (5120006-05) Soil									
Benzene	ND	0.0250	mg/kg dry	25	EI52303	09/23/05	09/24/05	EPA 8021B	
Toluene	ND	0.0250	31		*	и _	. "	н	
Ethylbenzene	ND	0.0250	"	11	"	11	н	н	
Xylene (p/m)	ND	0.0250	n	**	"	и	Ħ	н	
Kylene (o)	ND	0.0250	##	**	**	u	и	11	
Surrogate: a,a,a-Trifluorotoluene		97.2 %	80-12	0	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.0 %	80-12	0	","	"	"	"	
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EI52106	09/21/05	09/21/05	EPA 8015M	
Diesel Range Organics >C12-C35	ND	10.0	11	"	и.	"	"	#	
Total Hydrocarbon C6-C35	ND	10.0	и	"	**	1)	"	н	
Surrogate: 1-Chlorooctane		79.2 %	70-13	0	"	"	"	"	
Surrogate: 1-Chlorooctadecane		93.8 %	70-13	0	"	"	,,	"	

Project: Vacuum 10" to Jal

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# General Chemistry Parameters by EPA / Standard Methods Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
MW-9 (5') (5I20006-01) Soil					<del></del>				
% Moisture	10.0	0.1	%	1	EI52101	09/21/05	09/21/05	% calculation	
MW-9 (10') (5I20006-02) Soil									
% Moisture	8.7	0.1	%	1	EI52101	09/21/05	09/21/05	% calculation	
MW-9 (15') (5I20006-03) Soil									
% Moisture	8.4	0.1	%	Ī	EI52101	09/21/05	09/21/05	% calculation	
MW-9 (18') (5I20006-04) Soil									
% Moisture	18.3	0.1	%	1	EI52101	09/21/05	09/21/05	% calculation	
MW-9 (20') (5120006-05) Soil									
% Moisture	20.4	. 0.1	%	1	EI52101	09/21/05	09/21/05	% calculation	

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[		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EI52106 - Solvent Extraction (GC)								· · · · · · · · · · · · · · · · · · ·		
Blank (EI52106-BLK1)				Prepared &	Analyzed:	09/21/05				
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	**							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	45.4		mg/kg	50.0		90.8	70-130			
Surrogate: 1-Chlorooctadecane	45.9		"	50.0		91.8	70-130			
LCS (EI52106-BS1)				Prepared &	Analyzed:	09/21/05				
Gasoline Range Organics C6-C12	443	10.0	mg/kg wet	500		88.6	75-125			
Diesel Range Organics >C12-C35	564	10.0	11	500		113	75-125			
Total Hydrocarbon C6-C35	1010	10.0	н	1000		101	75-125			
Surrogate: I-Chlorooctane	56.1		mg/kg	50.0		112	70-130			
urrogate: 1-Chlorooctadecane	48.6		"	50.0		97.2	70-130			
Calibration Check (EI52106-CCV1)				Prepared: 0	9/21/05 Ar	nalyzed: 09	/22/05			
Gasoline Range Organics C6-C12	409	-	mg/kg	500		81.8	80-120			
Diesel Range Organics >C12-C35	499		u	500		99.8	80-120		•	
otal Hydrocarbon C6-C35	908		н	1000		90.8	80-120			
urrogate: 1-Chlorooctane	47.0		n	50.0		94.0	0-200			
urrogate: I-Chlorooctadecane	49.1		#	50.0		98.2	0-200			
Aatrix Spike (EI52106-MS1)	Sou	rce: 5I20006-	01	Prepared &	Analyzed:	09/21/05				
Sasoline Range Organics C6-C12	458	10.0	mg/kg dry	556	ND	82.4	75-125			
Piesel Range Organics >C12-C35	603	10.0	n	556	ND	108	75-125			
otal Hydrocarbon C6-C35	1060	10.0	n	1110	ND	95.5	75-125			
urrogate: 1-Chlorooctane	58.7		mg/kg	50.0		117	70-130			
urrogate: I-Chlorooctadecane	49.4		P	50.0		98.8	70-130			
Aatrix Spike Dup (EI52106-MSD1)	Sou	rce: 5I20006-	01	Prepared &	Analyzed:	09/21/05				
asoline Range Organics C6-C12	455	10.0	mg/kg dry	556	NĎ	81.8	75-125	0.657	20	
Diesel Range Organics >C12-C35	603	10.0	н	556	ND	108	75-125	0.00	20	
otal Hydrocarbon C6-C35	1060	10.0	н	1110	ND	95.5	75-125	0.00	20	
urrogate: 1-Chlorooctane	57.1		mg/kg	50.0		114	70-130			
urrogate: 1-Chlorooctadecane	47.1		"	50.0		94.2	70-130			

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
	Acount	Limit	Omo	Level	result	ANTEC	- mins	M.D	Latin	110162
Batch EI52303 - EPA 5030C (GC)								· · · · · · · · · · · · · · · · · · ·		
Blank (EI52303-BLK1)	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		Prepared: (	09/23/05 A	nalyzed: 09	0/24/05			
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250								
Ethylbenzene	ND	0.0250								
Xylene (p/m)	ND	0.0250	"							
Xylene (o)	ND	0.0250								
Surrogate: a,a,a-Trifluorotoluene	32.3	<u> </u>	ug/kg	40.0		80.8	80-120			
Surrogate: 4-Bromofluorobenzene	32.4		"	40.0		81.0	80-120			
LCS (EI52303-BS1)				Prepared &	Analyzed:	09/23/05				
Benzene	43.2		ug/kg	50.0		86.4	80-120	, , , ,		
Toluene	42.0		**	50.0		84.0	80-120			
Ethylbenzene	45.1		"	50.0		90.2	80-120			
Xylene (p/m)	82.6		**	100		82.6	80-120			
Xylene (o)	47.1		"	50.0		94.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	35.6		"	40.0	4	89.0	80-120			
Surrogate: 4-Bromofluorobenzene	41.4		"	40.0		104	80-120			
Calibration Check (EI52303-CCV1)				Prepared: 0	9/23/05 An	nalyzed: 09/	/25/05			
Benzene	41.4		ug/kg	50.0		82.8	80-120			
Toluene	40.0		11	50.0		0.08	80-120			
Ethylbenzene	42.8		**	50.0		85.6	80-120			
Xylene (p/m)	81.9		н	100		81.9	80-120			
Xylene (o)	45.3		н	50.0		90.6	80-120			
Surrogate: a,a,a-Trifluorotoluene	36.3		n	40.0		90.8	0-200			
Surrogate: 4-Bromofluorobenzene	37.1		"	40.0		92.8	0-200			
Matrix Spike (EI52303-MS1)	Sou	rce: 5I20008-	14	Prepared: 0	9/23/05 An	alyzed: 09/	/25/05			
Benzene	1100		ug/kg	1250	ND	88.0	80-120			
Toluene	1060		0	1250	ND	84.8	80-120			
Ethylbenzene	1140		n	1250	ND	91.2	80-120			
Xylene (p/m)	2090		"	2500	ND	83.6	80-120			
Xylene (o)	1140		**	1250	ND	91.2	80-120			
Surrogate: a,a,a-Trifluorotoluene	37.3		"	40.0		93.2	80-120			
Surrogate: 4-Bromofluorobenzene	<i>38.3</i>		"	40.0		95.8	80-120			

Project: Vacuum 10" to Jal

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Analyte	Result	Reporting Limit Unit	Spike s Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EI52303 - EPA 5030C (GC)									
Matrix Spike Dup (EI52303-MSD1)	Sou	rce: 5I20008-14	Prepared:	09/23/05 A	nalyzed: 09	9/25/05			
Benzene	1040	ug/k	1250	ND	83.2	80-120	5.61	20	
Toluene	1030	п	1250	ND	82.4	80-120	2.87	20	
Ethylbenzene	1100	n	1250	ND	88.0	80-120	3.57	20	
Xylene (p/m)	2030	ii ii	2500	ND	81.2	80-120	2.91	20	
Xylene (o)	1110	n	1250	ND	88.8	80-120	2.67	20	
Surrogate: a,a,a-Trifluorotoluene	36.7	"	40.0		91.8	80-120			
Surrogate: 4-Bromofluorobenzene	37.4	"	40.0		93.5	80-120			

Project: Vacuum 10" to Jal

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# General Chemistry Parameters by EPA / Standard Methods - Quality Control Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EI52101 - General Preparation (Prep)										
Blank (EI52101-BLK1)				Prepared &	: Analyzed:	09/21/05				
% Solids	100		%							
Duplicate (EI52101-DUP1)	Sou	rce: 5I19030-01	1	Prepared &	: Analyzed:	09/21/05				
% Solids	84.7		%		84.6			0.118	20	
Duplicate (EI52101-DUP2)	Sou	rce: 5I19032-04	4	Prepared &	Analyzed:	09/21/05				
% Solids	95.8		%		94.1			1.79	20	, , , , , ,
Duplicate (EI52101-DUP3)	Sou	rce: 5120008-07	7	Prepared &	Analyzed:	09/21/05				
% Solids	92.6		%		92.9			0.323	20	

Duplicate

Dup

Project: Vacuum 10" to Jal
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### **Notes and Definitions**

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Report Approved By: Raland K Joseph

Date:

9/28/2005

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

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# Environmental Labs of Texas

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

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Environmental Plus,		1558	Eunice New Mexico	505-394-3481 / 505-3	American	Altici Ivari	0" to Jai	48	SS		Ġ					Ì							50/57/80mg	20.02-X	Sample (
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Company Name	EPI Project Manager	Mailing Address	City, State, Zip	EPI Phone#/Fax#	Client Company		Facility Name	Project Reference	EPI Sampler Name		LABI.D.	ļo	70-	-03	90°	8							Sampler-Refinquisper	Relifiquiened by:	Delivered by:

# Environmental Lab of Texas Variance / Prective Action Report – Simple Log-In

Client: EPI/Plains					
Date/Time: 9/20/05 12:15					
Order #:			•		
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Sample Receip	t Checki	ist			
emperature of container/cooler?	Yes	No	3.5	C	
Shipping container/cooler in good condition?	d'es	No			
Custody Seals intact on shipping container/cooler?	Yes	No	Not presen	i i	
Custody Seals intact on sample bottles?	XES	No	Not presen	t	
Chain of custody present?	Y,9s	No	·	1	
Sample Instructions complete on Chain of Custody?	Yes	No			
Chain of Custody signed when relinquished and received?	Yæ	No		<del></del> i	
Chain of custody agrees with sample label(s)	Yes	No			
Container labels legible and intact?	Yes	No			
Sample Matrix and properties same as on chain of custody?	Yas	No			
Samples in proper container/bottle?	ζ <del>'</del> es	No	(		
Samples properly preserved?	Yes	No			
Sample bottles intact?	YES	No			
Preservations documented on Chain of Custody?	Yes	- No			
Containers documented on Chain of Custody?	YES	No			
Sufficient sample amount for indicated test?	YES	No			
All samples received within sufficient hold time?	VES	No			
/OC samples have zero headspace?	Yes	No	Not Applicat	Je I	
Other observations:					
Variance Docu		<i>f</i>			and a second second second second second second second second second second second second second second second
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Contact Person: Date/Time: Regarding:			Contacted t	ıy:	
Corrective Action Taken:					
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# APPENDIX C MONITOR WELL MW-9 SOIL BORING LOG SHEET

### Log Of Test Borings (NOTE - Page 1 of 2) Project Number: Plains Marketing, L.P. - 2002-10248 Environmental Plus, Inc. Project Name: Vacuum 10" to Jal STATE APPROVED LAND FARM AND ENVIRONMENTAL SERVICES Location: UL - M, Section 20, T 19 S, R 37 E EUNICE, NM 505-394-3481 Boring Number: MW-9 Surface Elevation: Start Date: 09/16/05 1120 PID Readings (ppm) Time: Moisture U.S.C.S. Symbol Sample Type Recovery (inches) Depth (feet) Completion Date: 09/16/05 Time: 1234 Description 0.67' Sandy Loam Topsoil CALICHE, White to Tan, Soft to Hard 5 1130 Core 12 Dry 21.4 SP 1143 12 Dry 17.1 Core SP 1152 Core 8 Damp 13.6 1204 10.6 Core 10 Moist CLRed Brown, Soft to Hard, CLAY WITH SOME TRACE SILT AND SAND 20 1213 Core 10 Moist 8.4 CL25 30 35

### Log Of Test Borings

(NOTE - Page 2 of 2)



09/16/05

1445

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

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

Project Name: Vacuum 10" to Jal

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

'il' 505-394-3481 Boris				Boring	ng Number: MW-9			Surface Elevation: -							
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Sample # and Time	Sample # Sample Type Type  Recovery inches)  Moisture PID PID Readings	istur		istur	istur	PID ading	U.S.C.S. Symbol	Depth (feet)						1234	
Sa	S.	Si j	Ř	Re	Ü.	D)		Completion Date: 09/16/05 Time: 1234  Description							
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09/16/0	5 1445	Dept	th [	Depth	Depth	L	evel 7.6	Backfill N	Aethod:	MW-9 I	nstalled			}	

Field Representative:

27.6

IAO