

1R - 411

# REPORTS

DATE:

4/21/2004



## ANNUAL MONITORING REPORT

**CLAY OSBORN JALMAT #22A**

**LINK REF: 2000-10614**

**SW¼ OF THE NW¼ OF SECTION 18, TOWNSHIP 25 SOUTH, RANGE 37 EAST  
LEA COUNTY, NEW MEXICO**

**~1.52 MILES NORTHWEST (297°) OF  
JAL, LEA COUNTY, NEW MEXICO**

**LATITUDE: N32° 07' 58"**

**LONGITUDE: W103° 12' 38"**

**APRIL 21, 2004**

**PREPARED BY:**

*Environmental Plus, Inc.*

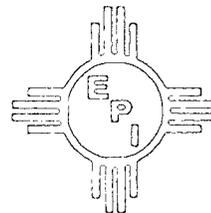
2100 Avenue O

P.O. Box 1558

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## **I. Background**

The "Clay Osborn Jalmat #22A" (2000-10614) release site is located approximately 1.5 miles northwest of Jal in Lea County, New Mexico, at an elevation of approximately 3,147 feet above mean sea level (reference Figures 1 and 2). The site is located in the southwest quarter of the northwest quarter of section 18, range 37 east, township 25 south. There are no residences located within a 1,000-foot radius of the leak site; however, there is one surface water body located approximately 570 feet southeast of the leak site. The release is historical with no information available regarding the volume released or recovered. The release covered approximately 23,400 square feet of pipeline right-of-way and pasture land owned by Clay and Gerry Osborn (reference Figure 3).

Initial investigative activities, completed between July 26 and September 3, 2000, consisted of advancing 26 soil borings to depths 15 feet below ground surface (BGS). During the advancement of the soil borings, samples were collected at five foot intervals. The samples were split with a portion being immediately placed in laboratory provided containers and placed on ice in a cooler for later transport to an independent laboratory. The remainder of the sample was placed in zip lock bag for field analysis of organic vapors utilizing an Ultra Rae photoionization detector (PID) equipped with a 10.6 electron volt (eV) lamp. The investigation delineated subsurface contamination present above the New Mexico Oil Conservation Division (NMOCD) remedial thresholds (*Site Investigation and Remediation Proposal* dated December 8, 2001). The vertical extent was defined and was limited to 15 feet BGS.

Results of the soil investigation did not warrant the installation of a groundwater monitoring well at the site; however, there was a monitoring well in place approximately 800 feet southeast of the release site which was installed as a result of a separate historical release.

This groundwater monitoring well was sampled on a quarterly basis to ensure the release was not having an adverse impact on groundwater in the area. Analytical results for the samples collected on July 3 and October 24, 2001, January 23, April 15, July 8 and October 5, 2002, were below the laboratory method detection limits (MDL) for hydrocarbon analytes. The samples were also analyzed for chlorides and total dissolved solids (TDS). Analytical results indicated chloride concentrations ranged from 200 to 239 milligrams per liter (mg/L), below the New Mexico Water Quality Control Commission (NMWQCC) groundwater standard of 250 mg/L. Analytical results indicated TDS concentrations ranged from 1,130 to 1,360 milligrams per liter (mg/L), above the NMWQCC groundwater standard of 1,000 mg/L.

## **II. Field Activities**

The groundwater monitoring well was sampled on February 17, September 2 and October 7, 2003. The samples were submitted to an independent laboratory for the quantification of benzene, toluene, ethylbenzene and total xylenes (BTEX). In addition, the groundwater sample collected on September 2, 2003 was submitted for quantification of total petroleum hydrocarbons as gasoline (TPH as gasoline), total petroleum hydrocarbons as diesel (TPH as diesel), chlorides and TDS.

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

The groundwater monitoring well was gauged prior to bailing to determine the depth to groundwater and the thickness of any PSH. Measurements of groundwater levels during this phase of the investigation indicate that water levels have increased slightly. PSH have not been detected in the groundwater monitoring well since it was first sampled on July 3, 2001, as part of this investigation. A summary of groundwater elevations is included in Table 1.

### **IV. PSH Recovery**

PSH have not been detected in the groundwater monitoring well since it was first sampled on July 3, 2001, as part of this investigation.

### **V. Groundwater Sampling**

The groundwater monitoring well was sampled on February 17, September 2 and October 7, 2003. The samples were submitted to an independent laboratory for the quantification of BTEX via EPA Method 8260b. In addition, the groundwater sample collected on September 2, 2003 was submitted for quantification of TPH as gasoline and TPH as diesel via EPA Method 8015 modified, chlorides via EPA Method 325.2 & 9251 and TDS via EPA Method 160.1. The well was purged a minimum of three well volumes or dry and samples collected utilizing dedicated or disposable sample bailers. Samples were then placed on ice and shipped to an independent laboratory under chain-of-custody for analyses.

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

Analytical results for the samples collected on February 17, September 2 and October 7, 2003, were below the laboratory method detection limits (MDL) for BTEX and TPH.

A summary of groundwater analytical results is included as Table 2 and copies of the analytical results for samples collected on February 17, September 2 and October 7, 2003, are included as Appendix A.

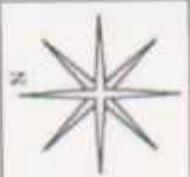
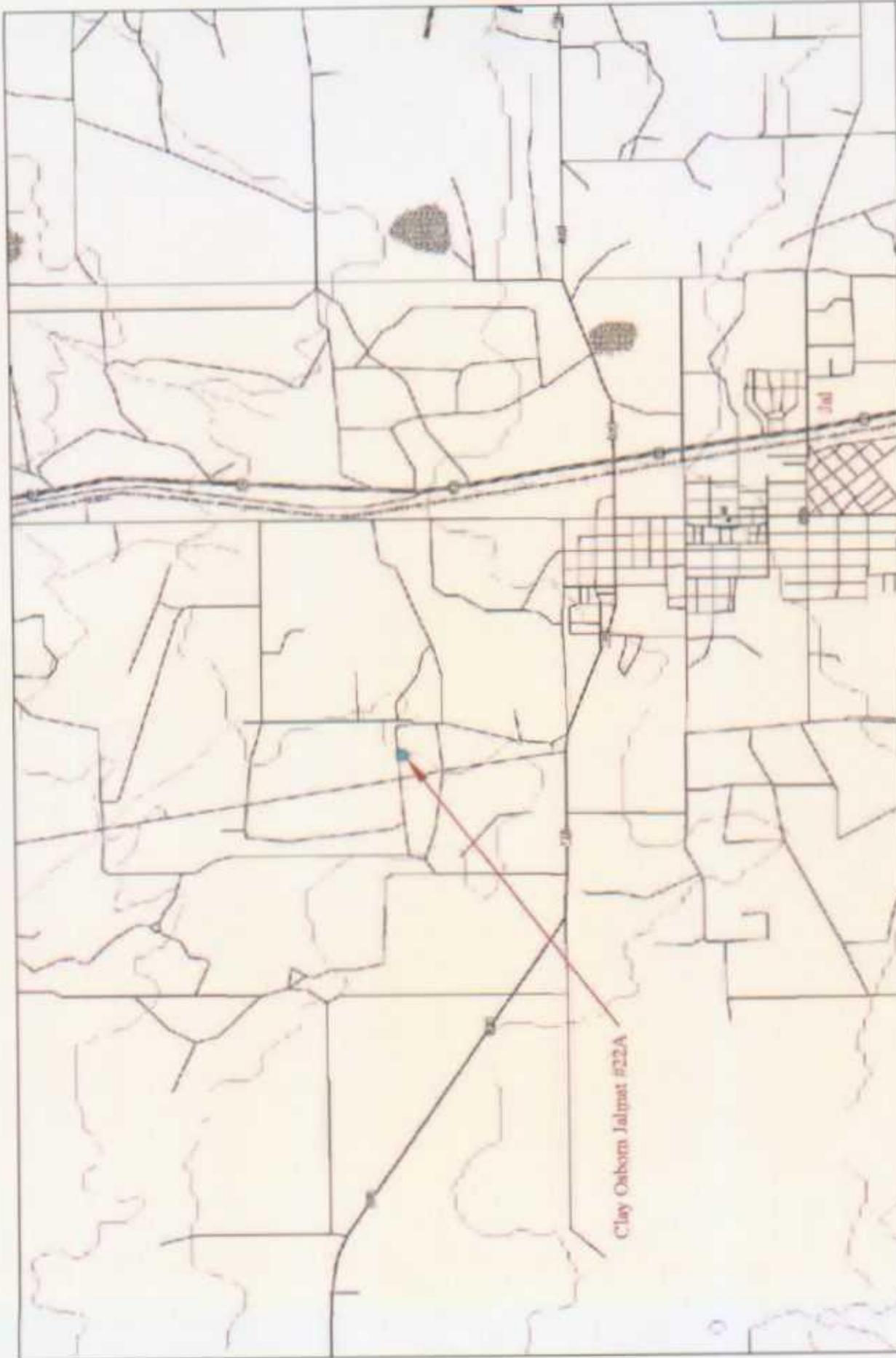
### **VII. Recommendations**

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

- 1) Due to the fact that no hydrocarbon contaminants have been detected in the on-site groundwater monitoring well since the well was first sampled on July 3, 2001 for this release site, it is recommended that the groundwater monitoring well be sealed and the groundwater investigation at this site be terminated. Link Energy requests that the NMOCD issue a "No Further Action" letter regarding the groundwater conditions at the site based on the groundwater monitoring results.

- 2) It is recommended that a remedial action plan be developed to address the impacted soils identified during site delineation activities.

**FIGURES**

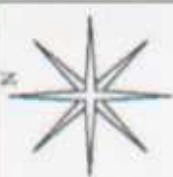
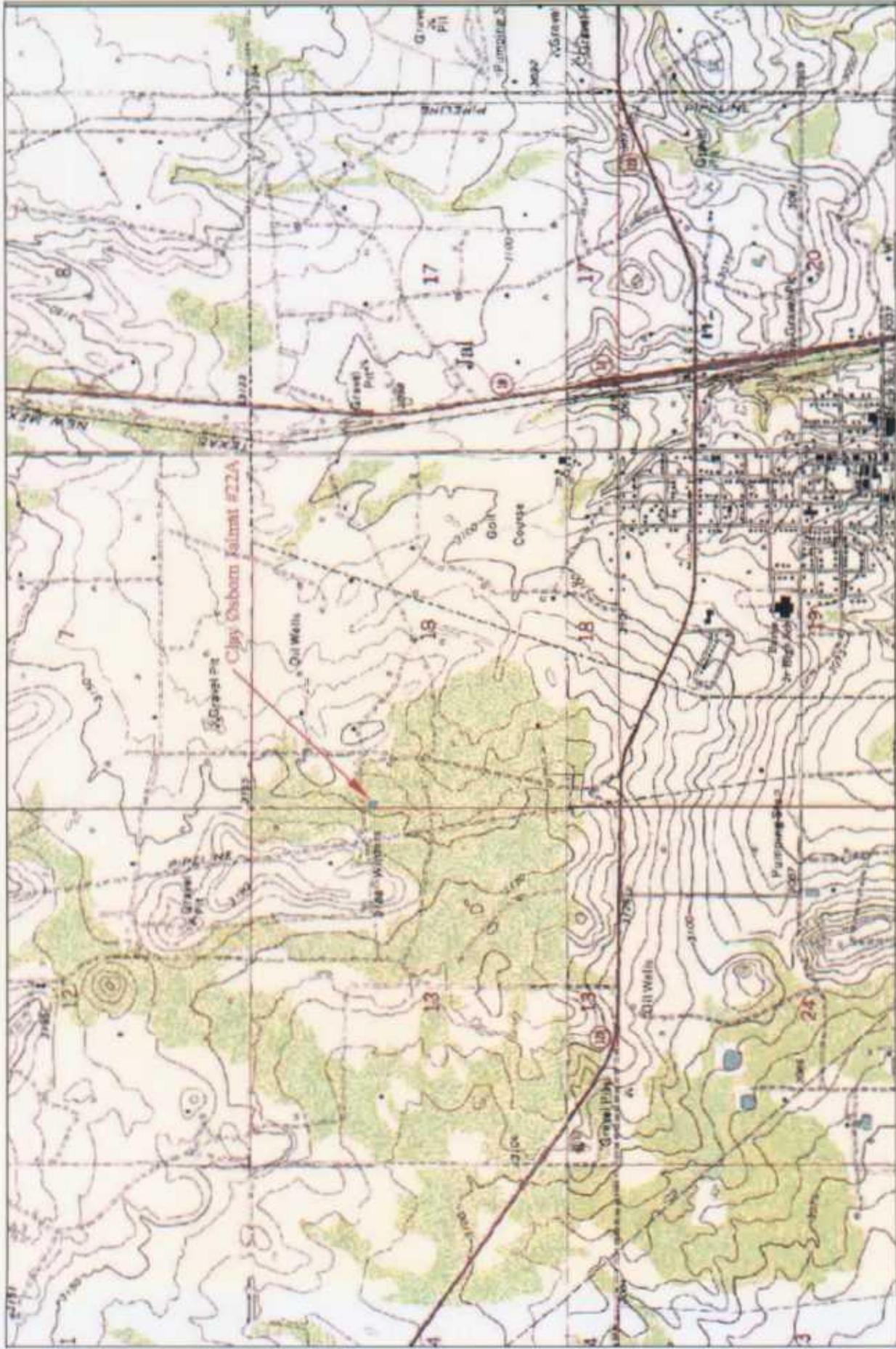


REVISED:  
 DWG By: Jain Olness  
 April 2004



Lea County, New Mexico  
 SW 1/4 of the NW 1/4, Sec. 18, T25S, R37E  
 N 32° 07' 58.0" W 103° 12' 38.0"  
 Elevation: 3,147 feet amsl

Figure 1  
 Area Map  
 Link Energy, LLC  
 Clay Osborn Jalmat #22A



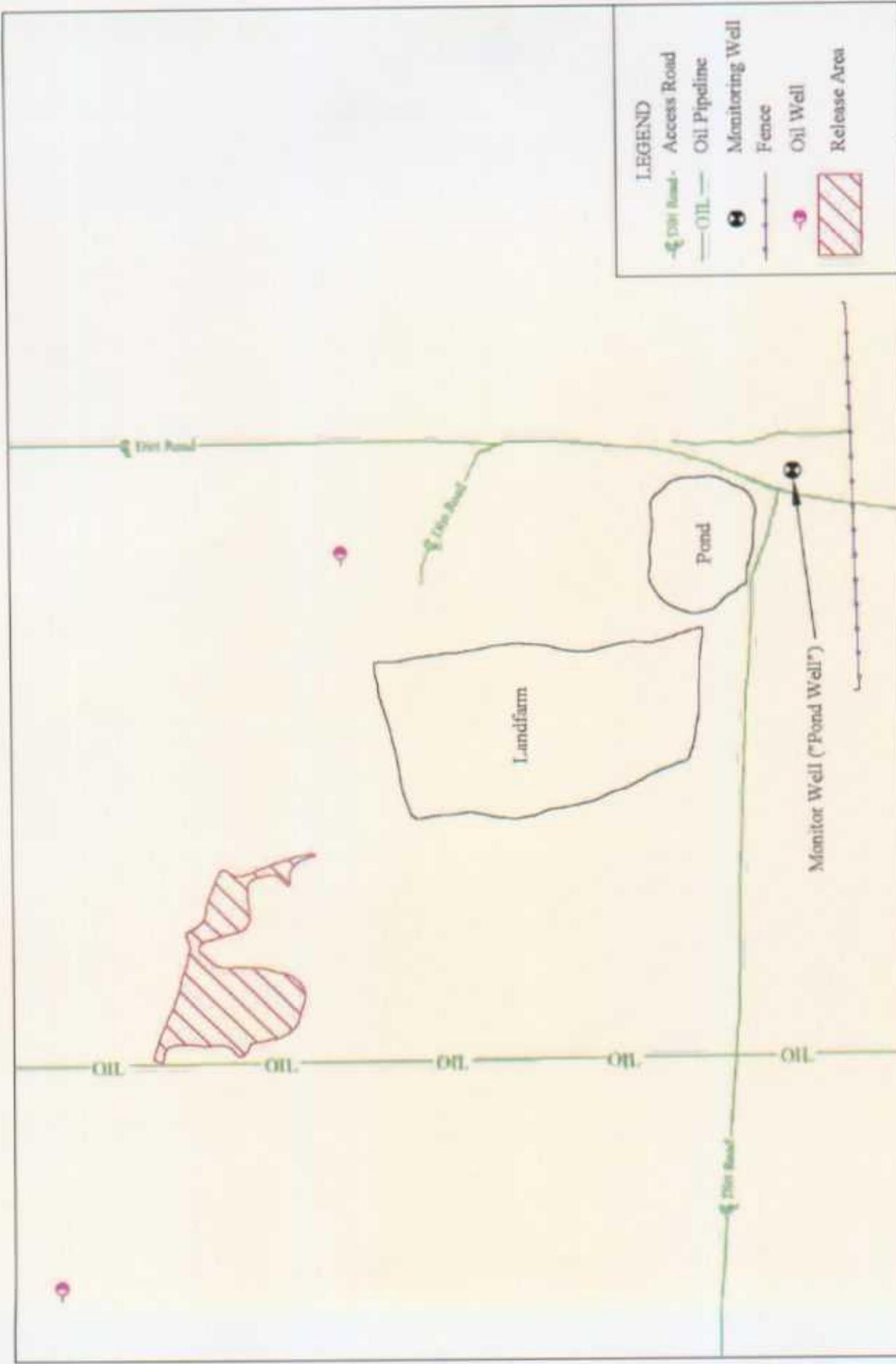
REVISED:  
4,000 SHEET  
1 of 1

DWG By: Iain Olness  
April 2004

0 2,000 4,000 Feet

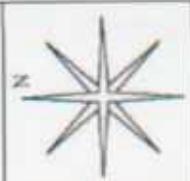
Lea County, New Mexico  
SW 1/4 of the NW 1/4, Sec. 18, T25S, R37E  
N 32° 07' 58.0" W 103° 12' 38.0"  
Elevation: 3,147 feet amsl

Figure 2  
Site Location Map  
Link Energy, LLC  
Clay Osborn Jalmat #22A



**LEGEND**

- Access Road
- Oil Pipeline
- Monitoring Well
- Fence
- Oil Well
- Release Area



REVISED:

DWG By: Iain Olness  
April 2004

Lea County, New Mexico  
SW 1/4 of the NW 1/4, Sec. 18, T25S, R37E  
N 32° 07' 58.0" W 103° 12' 38.0"  
Elevation: 3,147 feet amsl

**Figure 3**  
**Site Map**  
Link Energy, LLC  
Clay Osborn Jalmat #22A



SHEET  
1 of 1



Figure 4: TPH and BTEX Concentrations in Groundwater Monitoring Well MW from 07/03/01 through 10/07/03, Link Energy Clay Osborn Jalmat #22A, Lea County, New Mexico.

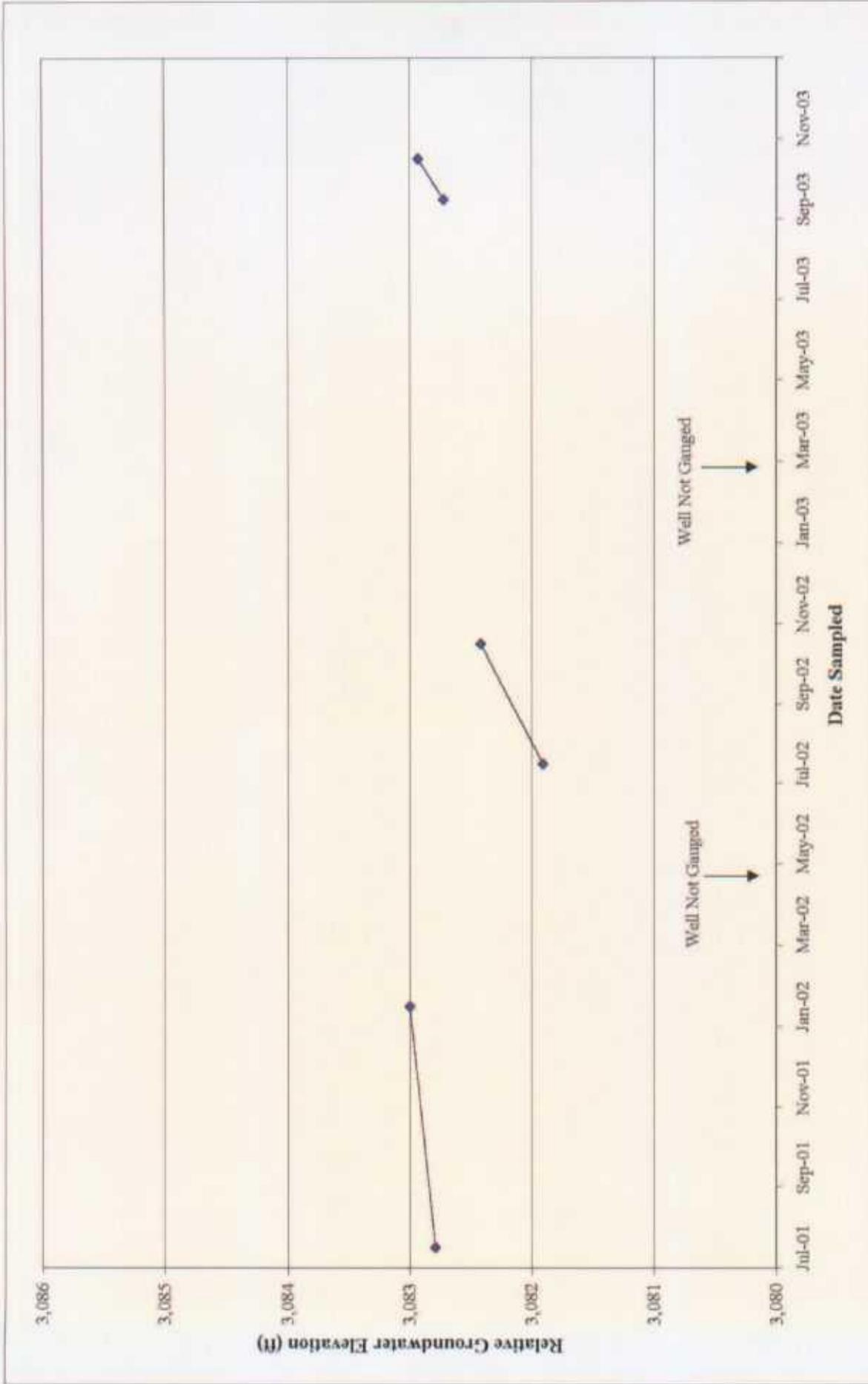


Figure 5: Hydrograph for Monitoring Well MW, Link Energy Clay Osborn Jalmat #22A, Lea County, New Mexico from 07/03/01 through 10/07/03.

**TABLES**

**TABLE 1**

**RELATIVE GROUNDWATER ELEVATIONS AND  
PHASE SEPARATED HYDROCARBON THICKNESSES**

**Clay Osborn Jalmat #22A - Ref #2000-10614**

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)
MW	3-Jul-01	3,147	--	64.21	3,082.79	--
	23-Jan-02		--	64.00	3,083.00	--
	15-Apr-02					
	8-Jul-02		--	65.09	3,081.91	--
	5-Oct-02		--	64.58	3,082.42	--
	17-Feb-03					
	2-Sep-03		--	64.28	3,082.72	--
	7-Oct-03		--	64.07	3,082.93	--

\* = Top of casing elevation set from USGS Topographical map

\*\* Corrected Groundwater Elevation = Top of Casing Elevation - (Depth to Water Below Top of Casing - (SG)(PSH Thickness))

-- = Not detected

If cell is blank, the well was not gauged

TABLE 2

Summary of Groundwater Analytical Results

Clay Osborn Jalmat #22A - Ref #2000-10614

Monitor Well Location	Date	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	m,p-Xylenes (µg/L)	o-Xylene (µg/L)	Total Xylenes (µg/L)	Chloride (mg/L)	Total Dissolved Solids (mg/L)	TPH as Gasoline (mg/L)	TPH as Diesel (mg/L)	Total TPH (mg/L)
MW	3-Jul-01	<1	<1	<1	<1	<1	<2	239	1,280	<0.25	<0.02	<0.27
	24-Oct-01	<1	<1	<1	<1	<1	<2	200	1,150	<0.5	<0.5	<1.0
	23-Jan-02	<1	<1	<1	<1	<1	<2	228	1,360			
	15-Apr-02	<1	<1	<1	<1	<1	<2					
	1-Jul-02							216	1,327			
	8-Jul-02	<1	<1	<1	<1	<1	<2	215	1,130			
	5-Oct-02	<1	<1	<1	<1	<1	<2					
	17-Feb-03	<1	<1	<1	<1	<1	<2					
	2-Sep-03	<1	<1	<1	<1	<1	<2	273	1,110	<0.5	<0.5	<1.0
	7-Oct-03	<1	<1	<1	<1	<1	<2					
<b>NMOC Remedial Thresholds</b>		10	750	750			620	250	1,000			

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

*If cell is blank, that parameter was not analyzed*

**APPENDICES**

**APPENDIX A**

**GROUNDWATER ANALYTICAL RESULTS**

**AND**

**CHAIN-OF-CUSTODY**  
**FORMS**



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 (512) 385-5886 • FAX (512) 385-7411

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

**Report#/Lab ID#:** 139661 **Report Date:** 02/24/03  
**Project ID:** 2000 - 10614  
**Sample Name:** WECOPW21703MW  
**Sample Matrix:** water  
**Date Received:** 02/20/2003 **Time:** 10:30  
**Date Sampled:** 02/17/2003 **Time:** 14:00

**REPORT OF ANALYSIS**

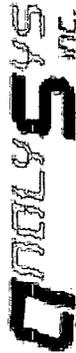
**QUALITY ASSURANCE DATA 1**

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method <sup>6</sup>	Data Qual <sup>7</sup>	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Volatile organics-8260b/BTEX	---		---		02/21/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/21/03	8260b	---	11.3	80.5	98.8	83.9
Ethylbenzene	<1	µg/L	1	<1	02/21/03	8260b	---	0.7	118.6	119.1	127.1
m,p-Xylenes	<1	µg/L	1	<1	02/21/03	8260b	---	1.1	116.6	117	125.6
o-Xylene	<1	µg/L	1	<1	02/21/03	8260b	---	0.7	120.1	115.8	128.5
Toluene	<1	µg/L	1	<1	02/21/03	8260b	---	11.8	103.1	105	105.8

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

Respectfully Submitted,  
*Richard Laster*  
 Richard Laster

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



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

Client: Environmental Plus, Inc.  
Attn: Pat McCasland

Project ID: 2000 - 10614  
Sample Name: WECOPW21703MW

Report#/Lab ID#: 139661  
Sample Matrix: water

**REPORT OF SURROGATE RECOVERY**

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	97.3	80-120	---
Toluene-d8	8260b	105	88-110	---

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





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**Attn:** Pat McCasland

**Address:** 2100 Ave. O

Eunice

NM 88231

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

**Report#/Lab ID#:** 146883 **Report Date:** 09/10/03

**Project ID:** 2000-10614

**Sample Name:** WECOPW9203

**Sample Matrix:** water

**Date Received:** 09/04/2003 **Time:** 10:30

**Date Sampled:** 09/02/2003 **Time:** 08:32

**REPORT OF ANALYSIS**

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

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method <sup>6</sup>	Data Qual <sup>7</sup>	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Total dissolved solids	1110	mg/L	1	<1	09/08/03	160.1	---	1.17	-NA-	-NA-	-NA-
TPH by GC (as diesel)	<0.5	mg/L	0.5	<0.5	09/09/03	8015 mod.	---	4.1	98.7	122.9	98.7
TPH by GC (as diesel-ext)	---	---	---	---	09/09/03	3510	---	---	---	---	---
TPH by GC (as gasoline)	<0.5	mg/L	0.5	<0.5	09/09/03	8015 mod.	---	5.2	97.5	121.1	100.1
Chloride	273	mg/L	5	<5	09/08/03	325.2&9251	---	2.44	81.96	107.27	97.39
Volatile organics-8260b/BTEX	---	---	---	---	09/08/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	09/08/03	8260b	---	3.8	89.6	100.3	91.2
Ethylbenzene	<1	µg/L	1	<1	09/08/03	8260b	---	3.4	113.4	115.5	118.4
m,p-Xylenes	<1	µg/L	1	<1	09/08/03	8260b	---	4.8	111.7	111.9	115.5
o-Xylene	<1	µg/L	1	<1	09/08/03	8260b	---	5.8	113	113.8	117.1
Toluene	<1	µg/L	1	<1	09/08/03	8260b	J	6.1	92.1	105.4	98.4

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Respectfully Submitted,

*Richard Laister*

Richard Laister

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



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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Plus, Inc.  
Attn: Pat McCasland

Project ID: 2000-10614  
Sample Name: WECOPW9203

Report#/Lab ID#: 146883  
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1-Chlorooctane	8015 mod.	77.3	50-150	---
p-Terphenyl	8015 mod.	86.9	50-150	---
1,2-Dichloroethane-d4	8260b	91.6	80-120	---
Toluene-d8	8260b	108	88-110	---

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

**Exceptions Report:**

**Report #/Lab ID#:** 146883    **Matrix:** water  
**Client:** Environmental Plus, Inc.    **Attn:** Pat McCasland  
**Project ID:** 2000-10614  
**Sample Name:** WECOPW9203

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

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

**Sample Bottles & Preservation**

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

**J flag Discussion**

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

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

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

**Notes:**





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**Attn:** Pat McCasland  
**Address:** 2100 Ave. O  
 Eunice NM 88231  
**Phone:** (505) 394-3481 **FAX:** (505) 394-2601

**Report#/Lab ID#:** 147954 **Report Date:** 10/15/03  
**Project ID:** 2000-10614  
**Sample Name:** WLEOPW10703  
**Sample Matrix:** water  
**Date Received:** 10/09/2003 **Time:** 10:30  
**Date Sampled:** 10/07/2003 **Time:** 09:00

**REPORT OF ANALYSIS**

**QUALITY ASSURANCE DATA 1**

Parameter	Result	Units	RQL <sup>5</sup>	Blank	Date	Method <sup>6</sup>	Data Qual <sup>7</sup>	Prec. <sup>2</sup>	Recov. <sup>3</sup>	CCV <sup>4</sup>	LCS <sup>4</sup>
Volatile organics-8260b/BTEX	---		---		10/10/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	10/10/03	8260b	---	3.5	87.8	90.3	86.9
Ethylbenzene	<1	µg/L	1	<1	10/10/03	8260b	---	0.2	108	111	110.9
m,p-Xylenes	<1	µg/L	1	<1	10/10/03	8260b	---	0.1	109.7	114.3	111.8
o-Xylene	<1	µg/L	1	<1	10/10/03	8260b	---	0	116	119.5	117.8
Toluene	<1	µg/L	1	<1	10/10/03	8260b	---	4.2	93.6	98.7	92.2

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Respectfully Submitted,  
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Client: Environmental Plus, Inc.  
Attn: Pat McCasland

Project ID: 2000-10614  
Sample Name: WLECPW10703

Report#/Lab ID#: 147954  
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	104	80-120	---
Toluene-d8	8260b	93	88-110	---

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

