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REPORTS

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Jaquez Com. E-1 AND Jaquez Com. C-1

Semi-Annual Report for Soil and Groundwater Remediation

September 1996

Prepared For

**EL PASO FIELD SERVICES,
FARMINGTON, NEW MEXICO**

Project 16297

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1.0 INTRODUCTION

At the request of El Paso Field Services (EPFS), Philip Environmental Services Corporation (Philip) has prepared the following semi-annual report and recommendations for soil and groundwater remediation at the Jaquez Com. C-1 and Jaquez Com. E-1 meter sites.

The Jaquez Com. C-1 and Jaquez Com. E-1 meter sites are currently owned and operated by EPFS. The meter sites are located in Section 6, Township 29N, and Range 9W, in San Juan County, New Mexico, near Blanco, New Mexico. The two meter stations are located within 40-feet of one another on the same location. Past practices included discharge of pipeline liquids into earthen pit(s) at the site. Listed below is a brief description of activities at the site:

- Late 1992 - Landowner expressed concern regarding potential hydrocarbon contamination in a garden area near the meter site location.
- March 1993 - Comprehensive soil and groundwater investigation performed on meter site location and nearby garden area.
- June 1993 - EPNG submits a remedial plan to NMOCD.
- July 1993 - NMOCD approves the remedial plan.
- August 1993 - Remediation activities initiated.
- September 1993 - Remediation activities completed.
- September 1993 to present - Floating product has been observed in monitor wells R-1 and R-2 during the months of seasonally low levels (i.e. January through May). The use of passive skimmer systems were implemented to remove floating product during periods of product accumulation. Monitoring wells at the site were initially sampled monthly and are currently sampled on a quarterly basis.

2.0 CURRENT STATUS

Currently, all monitoring wells are sampled on a quarterly basis for benzene, toluene, ethylbenzene, and xylene (BTEX) and on an annual basis for polynuclear aromatic hydrocarbons (PAH's). No PAH samples were collected during the period covered by this report; however, PAH sample results from the last (February 1996) sampling event are presented in Appendix C. As indicated in the February 14, 1996, semi-annual report, all groundwater sampled for the past two annual events showed PAH compounds were below NMWQCC standards. Currently, BTEX samples are not collected from monitoring wells when light non-aqueous phase liquids (LNAPL) are present. A summary of BTEX analysis can be found in Appendix A, and the latest BTEX laboratory

report in Appendix B. A site map showing monitoring well locations is presented in Figure 1.

Monitoring Well R-1

LNAPL has been observed in this monitoring well during periods of seasonal lows, particularly during the months of February, March, and April of 1994, 1995, and 1996. Since EPFS' semi-annual report dated February 14, 1996, several product thickness measurements (Table 1) have been made. The seasonal pattern has continued as in previous years, with product disappearing by the end of May. Since the February 14, 1996, semi-annual report, R-1 was scheduled for sampling on May 28, 1996, and on August 6, 1996. No samples were collected during the May 28, 1996, sampling event due to the presence of LNAPL in the well. The August 6, 1996, sampling event indicates benzene, toluene, and xylenes to be above New Mexico Water Quality Control Commission (NMWQCC) regulatory limits. Approximately 226 liters of LNAPL has been removed between February and May using the passive skimmer system.

Monitoring Well R-2

This monitoring well also had LNAPL present in the well during periods of seasonal groundwater lows. Since EPFS' semi-annual report dated February 14, 1996, several product thickness measurements have been made. The seasonal pattern has continued as in R-1, with product disappearing by the end of May. Since the February 14, 1996, semi-annual report, R-2 was scheduled for sampling on May 28, 1996, and on August 6, 1996. As in R-1, no samples were collected during the May 28, 1996, sampling event due to the presence of LNAPL in the well. The August 6, 1996, sampling event indicates benzene, toluene, and xylenes to be above NMWQCC regulatory limits. Since the February 14, 1996, report, approximately 41 liters of LNAPL has been removed using the passive skimmer system.

Monitoring Well R-3

In the two sampling events completed since the February 14, 1996, semi-annual report, both sampling events indicated all BTEX parameters to be below NMWQCC regulatory limits. All BTEX compounds have been consistently below NMWQCC regulatory limits since August 1995.

Monitoring Well R-4

Benzene levels in this monitoring well continue to be above NMWQCC standards for the last two sampling events. The other BTEX compounds remained below NMWQCC standards for the May and August sampling events. On average, the benzene levels appear to be leveling off at approximately 300 ug/L as indicated in the February and August sampling events where benzene results were 218 ug/L and 384 ug/L respectively.

However, periodic spikes have been noted during the August 1996 sampling event, which showed benzene levels at 716 ug/L.

Monitoring Well R-5

The May and August sampling events indicated all BTEX compounds to be nondetectable for both sampling events. Sample results for groundwater from this monitoring well have been consistently below detection limits for all BTEX compounds since monitoring began in September 1993.

Monitoring Well M-1

The May and August sampling events indicated all BTEX compounds to be nondetectable for both sampling events. Sample results from this monitoring well have also been consistently nondetectable since monitoring began.

Monitoring Well M-2

The May and August sampling events indicated all BTEX compounds to be nondetectable for both sampling events. Sample results from this monitoring well have also been consistently nondetectable since monitoring began in September 1993.

Monitoring Well M-3

The February 1996 sampling event indicated benzene values were above regulatory standards at 236 ug/L. All other BTEX compounds were below NMWQCC regulatory standards for the February sampling event. The May and August sampling events showed a drastic reduction in benzene levels with concentrations of 88.4 and 96.4 ug/L, respectively. As in the February 1996 sampling event, other BTEX compounds were below NMWQCC regulatory standards. The high benzene levels appear to correlate directly with low static groundwater during the sampling event.

Monitoring Well M-4

The benzene levels in M-4 have been dropping significantly since August of 1995. That trend continued with the May and August 1996 sampling events. Benzene concentrations dropped to 17 ug/L in May and 2.77ug/L in August, which is below NMWQCC regulatory standards. Other BTEX compounds remained below regulatory standards for

Monitoring Well M-4

BTEX values for monitoring well M-5 remain nondetectable as they have been since the monitoring program was implemented.

3.0 SUMMARY

Garden Area South of Citizen's Ditch

BTEX concentrations continue to decline in this area with the exception of M-4, which has shown a sporadic increase in benzene concentrations, usually during periods of seasonal low groundwater levels. Philip recommends adding oxygenates and nutrients via the passive vent system along Citizen's Ditch to enhance bioremediation of benzene in the groundwater at monitoring well M-3.

Meter Site Location North of Citizen's Ditch

Philip has reviewed the data collected by EPFS at the Jaquez site. In addition, Philip has reviewed the lithologic logs and data presented in the November 1993 report, prepared by Burlington Environmental Inc. (now Philip). Philip's data analysis included the preparation of the attached groundwater contour elevation map for August 6, 1996, (Figure 1) as well as a cross-section (Figure 2) of the site based on the 1993 data and the August 6, 1996, contour map.

The data presented in the attached cross-section indicates that the subsurface north of the ditch is characterized by a fine to coarse-grained unconsolidated sand, containing various amounts of silts and clays, that extend down to approximately 8-feet beneath ground surface (bgs). Underneath the sand is a clay unit that extends down to approximately 14-feet bgs. Finally, beneath the clay is a coarse-grained unconsolidated sand unit. South of the ditch the clay was not encountered in the borings. The subsurface is characterized by an unconsolidated medium to coarse-grained sand.

Seasonal fluctuations of the groundwater are apparent when viewing plots of the groundwater elevation data collected by EPFS. The groundwater rises in the summer months during the irrigation season, and declines in the fall following irrigation. Fluctuations in product thickness at monitoring wells R-1 and R-2 mimic the seasonal variations in the groundwater elevation. R-1 and R-2 either have markedly decreased product thickness or no product present during the periods of high water table, and show the greatest amounts of product during the periods of low water table elevations.

Monitoring wells R-1 and R-2 are screened across the lower coarse-grained sand and up into the clay unit. As noted on the boring log for R-1, free-phase hydrocarbons were first encountered at the top of the lower coarse-grained sand, indicating that this sand is a

secondary source of product. When the water table is high, the potentiometric surface is well into the clay unit. At this time the water table appears to become locally semi-confined by the clay. Due to low hydraulic conductivity, the free-phase hydrocarbons do not migrate into the clay and remain trapped beneath it, possibly migrating away from the well to a nearby stratigraphic trap. When the water table is low, the aquifer exhibits unconfined conditions, the water level is within the coarse-grained sand and the free-phase hydrocarbons migrate and accumulate within the wells.

4.0 RECOMMENDATIONS

Based on the results of Philip's data review, Philip believes that additional investigation is not warranted at this time. Philip recommends the following:

- Slug the passive vent system with nutrients and oxygenates to stimulate naturally occurring microbial activity, which could help stabilize benzene levels in M-3 and keep benzene levels in M-4 below NMWQCC standards.
- Install submersible pumps in wells R-1 and R-2 and initiate pumping to 400 barrel frac-tanks.
- During pumping, record depth-to-water levels in all of the surrounding wells.
- Once the frac-tanks are full, discontinue pumping and measure the volume of product and water recovered.
- Immediately following pumping, record depth-to-water measurements in each of the wells at the site until the water table has fully recovered.

Purpose and objectives of pump test:

- Determine if LNAPL can be removed during high seasonal groundwater by depressing the water table in and around R-1 and R-2.
- Determine the rate of LNAPL recovery that might be expected with continuous total fluids pumping.
- Determine a remedial strategy best suited for the site.

Table 1 - Groundwater Elevation Data

**JAQUEZ COM. C1 & JAQUEZ COM. E1
WATER ELEVATION SUMMARY**

Well Number	Date	Water Elev.	Product Elev.	Floating Product Inches	Static Water Level T.O.P.	Ref. Elev. T.O.P.
R-1	9/7/93	85.92	85.9	0.0	13.150	99.07
R-1	10/4/93	85.27	85.4	1.2	13.800	99.07
R-1	11/10/93	83.67	83.7	0.0	15.400	99.07
R-1	12/15/93	82.87	82.9	0.0	16.200	99.07
R-1	1/12/94	80.97	82.4	16.8	18.100	99.07
R-1	2/9/94	80.52	83.2	31.8	18.550	99.07
R-1	3/7/94	83.12	83.5	4.2	15.950	99.07
R-1	5/17/94	84.47	85.3	9.6	14.600	99.07
R-1	6/13/94	84.27	85.2	10.8	14.800	99.07
R-1	9/7/94	86.07	86.3	2.4	13.000	99.07
R-1	12/15/94	84.17	84.2	0.0	14.900	99.07
R-1	2/16/95	80.97	83.2	26.4	18.100	99.07
R-1	2/21/95	80.67	83.0	27.6	18.400	99.07
R-1	2/23/95	80.57	82.8	26.4	18.500	99.07
R-1	2/27/95	80.37	82.6	26.4	18.700	99.07
R-1	2/28/95	80.37	82.6	26.4	18.700	99.07
R-1	3/1/95	80.27	82.5	27.0	18.800	99.07
R-1	3/3/95	80.47	82.7	26.4	18.600	99.07
R-1	3/7/95	80.57	82.8	27.0	18.500	99.07
R-1	3/8/95	80.47	82.9	29.4	18.600	99.07
R-1	3/9/95	80.77	82.9	25.8	18.300	99.07
R-1	3/14/95	80.27	82.9	31.8	18.800	99.07
R-1	3/20/95	80.57	83.1	30.6	18.500	99.07
R-1	3/21/95	81.07	83.1	24.6	18.000	99.07
R-1	3/22/95	80.97	83.0	24.0	18.100	99.07
R-1	3/23/95	80.87	82.9	24.6	18.200	99.07
R-1	3/24/95	80.77	83.0	27.0	18.300	99.07
R-1	3/24/95	81.37	83.0	19.8	17.700	99.07
R-1	3/27/95	80.47	82.5	24.0	18.600	99.07
R-1	3/27/95	81.07	82.2	13.8	18.000	99.07
R-1	3/28/95	80.47	82.5	24.0	18.600	99.07
R-1	3/29/95	80.47	82.5	24.0	18.600	99.07
R-1	3/29/95	81.87	82.2	3.6	17.200	99.07
R-1	3/30/95	80.37	82.3	23.4	18.700	99.07
R-1	3/31/95	80.27	82.4	25.2	18.800	99.07
R-1	3/31/95	80.97	82.0	12.0	18.100	99.07
R-1	4/3/95	80.37	81.2	9.6	18.700	99.07
R-1	4/3/95	80.87	81.9	12.0	18.200	99.07
R-1	4/4/95	80.37	82.0	19.2	18.700	99.07
R-1	4/5/95	80.27	82.4	25.2	18.800	99.07
R-1	4/6/95	80.37	82.3	22.8	18.700	99.07
R-1	4/10/95	80.97	83.5	30.0	18.100	99.07

Well Number	Date	Water Elev.	Product Elev.	Floating Product Inches	Static Water Level T.O.P.	Ref. Elev. T.O.P.
R-1	4/12/95	81.07	83.6	30.0	18.000	99.07
R-1	4/12/95	82.07	82.8	8.4	17.000	99.07
R-1	4/13/95	81.27	83.3	24.0	17.800	99.07
R-1	4/18/95	81.47	84.1	31.2	17.600	99.07
R-1	4/19/95	82.87	83.8	10.8	16.200	99.07
R-1	4/20/95	83.07	83.6	6.0	16.000	99.07
R-1	4/24/95	81.57	83.8	26.4	17.500	99.07
R-1	4/25/95	81.77	83.9	25.2	17.300	99.07
R-1	4/27/95	81.37	83.5	25.2	17.700	99.07
R-1	4/28/95	81.87	84.2	27.6	17.200	99.07
R-1	5/1/95	81.27	82.6	15.6	17.800	99.07
R-1	5/2/95	81.27	82.6	15.6	17.800	99.07
R-1	5/3/95	81.77	83.4	19.8	17.300	99.07
R-1	5/8/95	80.37	82.5	25.8	18.700	99.07
R-1	5/9/95	81.37	83.5	25.8	17.700	99.07
R-1	5/10/95	81.47	83.6	25.2	17.600	99.07
R-1	5/12/95	81.57	83.7	25.8	17.500	99.07
R-1	5/15/95	81.47	83.3	22.2	17.600	99.07
R-1	5/17/95	83.67	84.3	7.2	15.400	99.07
R-1	5/18/95	83.87	84.4	6.0	15.200	99.07
R-1	5/19/95	84.17	84.2	0.0	14.900	99.07
R-1	5/22/95	83.97	84.0	0.0	15.100	99.07
R-1	5/23/95	83.97	84.0	0.0	15.100	99.07
R-1	5/25/95	83.67	84.1	4.8	15.400	99.07
R-1	5/30/95	84.27	84.6	3.6	14.800	99.07
R-1	5/31/95	84.57	84.8	2.4	14.500	99.07
R-1	6/2/95	84.67	84.8	1.2	14.400	99.07
R-1	6/5/95	84.57	84.6	0.0	14.500	99.07
R-1	6/7/95	84.47	84.5	0.0	14.600	99.07
R-1	9/8/95	84.37	84.4	0.0	14.700	99.07
R-1	6/9/95	84.37	84.4	0.0	14.700	99.07
R-1	6/12/95	84.27	84.3	0.0	14.800	99.07
R-1	6/13/95	84.27	84.3	0.0	14.800	99.07
R-1	6/14/95	84.27	84.3	0.0	14.800	99.07
R-1	6/15/95	84.47	84.5	0.0	14.600	99.07
R-1	6/19/95	84.77	84.8	0.0	14.300	99.07
R-1	6/26/95	84.67	84.7	0.0	14.400	99.07
R-1	7/3/95	85.27	85.3	0.0	13.800	99.07
R-1	7/25/95	84.97	85.0	0.0	14.100	99.07
R-1	8/28/95	84.84	84.8	0.0	14.230	99.07
R-1	9/8/95	85.57	85.6	0.0	13.500	99.07
R-1	9/26/95	85.67	85.7	0.0	13.400	99.07
R-1	10/27/95	84.47	84.5	0.0	14.600	99.07
R-1	11/2/95	84.40	84.4	0.0	14.670	99.07
R-1	12/5/95	84.57	84.6	0.0	14.500	99.07

Well Number	Date	Water Elev.	Product Elev.	Floating Product Inches	Static Water Level T.O.P.	Ref. Elev. T.O.P.
R-1	1/4/96	83.75	83.8	0.0	15.320	99.07
R-1	2/1/96	85.23	85.2	0.0	13.840	99.07
R-1	2/5/96	82.85	82.9	0.2	16.220	99.07
R-1	2/12/96	83.27	83.6	3.6	15.800	99.07
R-1	2/15/96	83.09	83.6	5.5	15.980	99.07
R-1	2/21/96	81.37	83.4	24.8	17.700	99.07
R-1	2/26/96	80.81	82.9	24.5	18.260	99.07
R-1	2/28/96	81.22	83.3	24.6	17.850	99.07
R-1	3/4/96	81.30	82.6	15.2	17.770	99.07
R-1	3/6/96	80.57	83.4	34.4	18.500	99.07
R-1	3/8/96	80.77	82.6	22.2	18.300	99.07
R-1	3/11/96	80.57	82.5	22.8	18.500	99.07
R-1	3/12/96	80.59	82.4	22.0	18.480	99.07
R-1	3/13/96	81.31	83.5	25.7	17.760	99.07
R-1	3/14/96	81.45	83.5	24.8	17.620	99.07
R-1	3/18/96	81.29	83.4	25.7	17.780	99.07
R-1	3/19/96	81.29	83.2	22.3	17.780	99.07
R-1	3/20/96	81.27	83.1	21.4	17.800	99.07
R-1	3/21/96	81.10	83.1	23.4	17.970	99.07
R-1	3/22/96	81.10	83.05	23.4	17.970	99.07
R-1	3/25/96	81.10	83.1	23.4	17.970	99.07
R-1	3/26/96	81.10	83.1	23.4	17.970	99.07
R-1	3/27/96	81.10	83.1	23.4	17.970	99.07
R-1	3/29/96	81.10	83.1	23.4	17.970	99.07
R-1	4/5/96	81.47	83.7	26.7	17.600	99.07
R-1	4/8/96	81.82	83.6	21.0	17.250	99.07
R-1	4/10/96	81.31	83.3	24.1	17.760	99.07
R-1	4/16/96	80.67	83.1	29.2	18.400	99.07
R-1	4/18/96	80.67	83.1	29.2	18.400	99.07
R-1	4/22/96	81.80	83.9	25.4	17.270	99.07
R-1	4/24/96	82.17	84.3	25.2	16.900	99.07
R-1	4/26/96	83.62	84.1	6.0	15.450	99.07
R-1	4/29/96	84.07	84.5	4.8	15.000	99.07
R-1	5/3/96	83.97	84.5	6.0	15.100	99.07
R-1	5/8/96	83.97	84.5	6.0	15.100	99.07
R-1	5/10/96	83.77	84.0	2.4	15.300	99.07
R-1	5/28/96	84.37	84.8	4.8	14.700	99.07
R-1	7/1/96	84.77	84.8	0.0	14.300	99.07
R-1	7/16/96	85.04	85.0	0.0	14.030	99.07
R-1	7/31/96	85.38	85.4	0.0	13.690	99.07
R-1	8/6/96	85.66	85.4	0.0	13.410	99.07
R-2	9/7/93	86.15	86.2	0.0	11.900	98.05
R-2	10/4/93	84.95	85.0	0.0	13.100	98.05
R-2	11/10/93	83.75	83.8	0.0	14.300	98.05

Well Number	Date	Water Elev.	Product Elev.	Floating Product Inches	Static Water Level T.O.P.	Ref. Elev. T.O.P.
R-2	12/15/93	82.95	83.1	1.2	15.100	98.05
R-2	1/12/94	81.05	83.1	24.0	17.000	98.05
R-2	2/9/94	80.95	83.2	26.4	17.100	98.05
R-2	3/7/94	83.30	83.6	3.0	14.750	98.05
R-2	5/17/94	84.90	85.5	6.6	13.150	98.05
R-2	6/13/94	84.70	85.3	6.6	13.350	98.05
R-2	9/7/94	85.25	85.3	0.0	12.800	98.05
R-2	12/15/94	84.20	84.3	0.6	13.850	98.05
R-2	2/16/95	81.65	82.7	12.0	16.400	98.05
R-2	2/21/95	81.95	82.4	4.8	16.100	98.05
R-2	2/23/95	81.35	81.4	0.0	16.700	98.05
R-2	2/27/95	81.75	81.8	0.0	16.300	98.05
R-2	2/28/95	81.75	81.8	0.0	16.300	98.05
R-2	3/1/95	81.45	81.5	0.0	16.600	98.05
R-2	3/3/95	81.65	81.7	0.0	16.400	98.05
R-2	3/7/95	81.55	81.6	0.0	16.500	98.05
R-2	3/8/95	82.15	82.2	0.0	15.900	98.05
R-2	3/9/95	82.95	83.0	0.0	15.100	98.05
R-2	3/14/95	81.75	81.8	0.0	16.300	98.05
R-2	3/20/95	82.20	82.6	4.8	15.850	98.05
R-2	3/21/95	82.45	82.7	2.4	15.600	98.05
R-2	3/22/95	82.30	82.5	1.8	15.750	98.05
R-2	3/23/95	82.15	82.2	0.0	15.900	98.05
R-2	3/24/95	81.85	81.9	0.0	16.200	98.05
R-2	3/24/95	81.85	81.9	0.0	16.200	98.05
R-2	3/27/95	81.65	81.7	0.0	16.400	98.05
R-2	3/27/95	81.65	81.7	0.0	16.400	98.05
R-2	3/28/95	81.65	81.7	0.0	16.400	98.05
R-2	3/29/95	81.65	81.7	0.0	16.400	98.05
R-2	3/29/95	81.65	81.7	0.0	16.400	98.05
R-2	3/30/95	81.45	81.5	0.0	16.600	98.05
R-2	3/31/95	81.35	81.4	0.0	16.700	98.05
R-2	3/31/95	81.35	81.4	0.0	16.700	98.05
R-2	4/3/95	81.35	81.4	0.0	16.700	98.05
R-2	4/3/95	81.35	81.4	0.0	16.700	98.05
R-2	4/4/95	81.35	81.4	0.0	16.700	98.05
R-2	4/5/95	81.35	81.4	0.0	16.700	98.05
R-2	4/6/95	81.35	81.4	0.0	16.700	98.05
R-2	4/10/95	82.55	83.1	6.0	15.500	98.05
R-2	4/12/95	81.55	82.8	14.4	16.500	98.05
R-2	4/12/95	82.75	82.8	0.0	15.300	98.05
R-2	4/13/95	81.95	82.9	10.8	16.100	98.05
R-2	4/18/95	82.10	83.5	16.8	15.950	98.05
R-2	4/19/95	83.45	83.5	0.0	14.600	98.05
R-2	4/20/95	83.35	83.4	0.0	14.700	98.05

Well Number	Date	Water Elev.	Product Elev.	Floating Product Inches	Static Water Level T.O.P.	Ref. Elev. T.O.P.
R-2	4/24/95	83.65	83.7	0.0	14.400	98.05
R-2	4/25/95	83.05	83.1	0.0	15.000	98.05
R-2	4/27/95	82.35	83.4	12.6	15.700	98.05
R-2	4/28/95	82.85	84.1	14.4	15.200	98.05
R-2	5/1/95	82.15	83.5	15.6	15.900	98.05
R-2	5/2/95	82.25	83.6	15.6	15.800	98.05
R-2	5/3/95	82.75	83.1	3.6	15.300	98.05
R-2	5/8/95	80.50	82.3	21.0	17.550	98.05
R-2	5/9/95	82.50	83.1	7.2	15.550	98.05
R-2	5/10/95	82.85	83.1	2.4	15.200	98.05
R-2	5/12/95	82.90	83.1	2.4	15.150	98.05
R-2	5/15/95	82.45	83.3	10.2	15.600	98.05
R-2	5/17/95	84.15	84.2	0.0	13.900	98.05
R-2	5/18/95	84.25	84.3	0.0	13.800	98.05
R-2	5/19/95	84.05	84.1	0.0	14.000	98.05
R-2	5/22/95	83.85	83.9	0.0	14.200	98.05
R-2	5/23/95	83.95	84.0	0.0	14.100	98.05
R-2	5/25/95	83.85	83.9	0.0	14.200	98.05
R-2	5/30/95	84.75	84.8	0.0	13.300	98.05
R-2	5/31/95	84.95	85.0	0.0	13.100	98.05
R-2	6/2/95	85.05	85.1	0.0	13.000	98.05
R-2	6/5/95	84.85	84.9	0.0	13.200	98.05
R-2	6/7/95	84.75	84.8	0.0	13.300	98.05
R-2	6/8/95	84.65	84.7	0.0	13.400	98.05
R-2	6/9/95	84.65	84.7	0.0	13.400	98.05
R-2	6/12/95	84.65	84.7	0.0	13.400	98.05
R-2	6/13/95	84.65	84.7	0.0	13.400	98.05
R-2	6/14/95	84.65	84.7	0.0	13.400	98.05
R-2	6/15/95	84.85	84.9	0.0	13.200	98.05
R-2	6/19/95	85.25	85.3	0.0	12.800	98.05
R-2	6/26/95	85.05	85.1	0.0	13.000	98.05
R-2	7/3/95	85.65	85.7	0.0	12.400	98.05
R-2	7/25/95	85.38	85.4	0.0	12.670	98.05
R-2	8/25/95	85.03	85.0	0.0	13.020	98.05
R-2	9/8/95	85.75	85.8	0.0	12.300	98.05
R-2	9/26/95	85.85	85.9	0.0	12.200	98.05
R-2	10/27/95	84.45	84.5	0.0	13.600	98.05
R-2	11/2/95	84.47	84.5	0.0	13.580	98.05
R-2	12/5/95	84.48	84.6	0.8	13.570	98.05
R-2	1/4/96	83.55	83.6	0.2	14.500	98.05
R-2	2/1/96	82.90	83.4	6.2	15.150	98.05
R-2	2/5/96	82.40	82.6	2.5	15.650	98.05
R-2	2/12/96	83.10	83.2	1.2	14.950	98.05
R-2	2/15/96	83.19	83.2	0.1	14.860	98.05
R-2	2/21/96	82.75	82.8	0.4	15.300	98.05

Well Number	Date	Water Elev.	Product Elev.	Floating Product Inches	Static Water Level T.O.P.	Ref. Elev. T.O.P.
R-2	2/26/96	81.90	82.4	6.0	16.150	98.05
R-2	2/28/96	82.05	82.2	1.2	16.000	98.05
R-2	3/4/96	82.25	82.3	0.0	15.800	98.05
R-2	3/6/96	81.72	81.9	1.8	16.330	98.05
R-2	3/8/96	81.65	81.7	0.0	16.400	98.05
R-2	3/11/96	80.45	80.5	0.0	17.600	98.05
R-2	3/12/96	79.45	79.5	0.0	18.600	98.05
R-2	3/13/96	82.44	82.7	3.5	15.610	98.05
R-2	3/14/96	82.20	82.2	0.5	15.850	98.05
R-2	3/18/96	82.45	82.9	4.8	15.600	98.05
R-2	3/19/96	82.09	82.6	5.5	15.960	98.05
R-2	3/20/96	82.05	82.5	5.5	16.000	98.05
R-2	3/21/96	81.70	82.2	5.8	16.350	98.05
R-2	3/22/96	98.05	98.1	0.0		98.05
R-2	3/25/96	98.05	98.1	0.0		98.05
R-2	3/26/96	98.05	98.1	0.0		98.05
R-2	3/27/96	98.05	98.1	0.0		98.05
R-2	3/29/96	98.05	98.1	0.0		98.05
R-2	4/5/96	82.90	82.9	0.0	15.150	98.05
R-2	4/8/96	82.68	82.7	0.5	15.375	98.05
R-2	4/10/96	82.05	82.6	6.0	16.000	98.05
R-2	4/16/96	81.25	83.1	21.6	16.800	98.05
R-2	4/18/96	98.05	98.1	0.0		98.05
R-2	4/22/96	82.65	83.5	9.6	15.400	98.05
R-2	4/24/96	83.25	83.8	6.0	14.800	98.05
R-2	4/26/96	83.85	84.0	1.2	14.200	98.05
R-2	4/29/96	84.15	84.3	1.2	13.900	98.05
R-2	5/3/96	84.05	84.2	1.2	14.000	98.05
R-2	5/8/96	84.05	84.2	1.2	14.000	98.05
R-2	5/10/96	84.65	84.8	1.2	13.400	98.05
R-2	5/28/96	84.93	85.1	2.0	13.120	98.05
R-2	7/1/96	84.90	85.1	1.8	13.150	98.05
R-2	7/16/96	85.51	85.6	0.7	12.540	98.05
R-2	7/31/96	85.58	85.6	0.6	12.470	98.05
R-2	8/6/96	85.79	85.9	0.7	12.260	98.05
R-3	9/7/93	86.54	N/A	0.0	12.750	99.29
R-3	10/4/93	85.39	N/A	0.0	13.900	99.29
R-3	11/10/93	84.59	N/A	0.0	14.700	99.29
R-3	12/15/93	83.29	N/A	0.0	16.000	99.29
R-3	1/12/94	82.34	N/A	0.0	16.950	99.29
R-3	2/9/94	82.89	N/A	0.0	16.400	99.29
R-3	3/7/94	84.54	N/A	0.0	14.750	99.29
R-3	5/17/94	85.69	N/A	0.0	13.600	99.29
R-3	6/13/94	85.99	N/A	0.0	13.300	99.29

Well Number	Date	Water Elev.	Product Elev.	Floating Product Inches	Static Water Level T.O.P.	Ref. Elev. T.O.P.
R-3	9/7/94	86.89	N/A	0.0	12.400	99.29
R-3	12/15/94	84.84	N/A	0.0	14.450	99.29
R-3	2/9/95	82.74	N/A	0.0	16.550	99.29
R-3	5/8/95	83.59	N/A	0.0	15.700	99.29
R-3	8/25/95	85.89	N/A	0.0	13.400	99.29
R-3	11/2/95	85.37	N/A	0.0	13.920	99.29
R-3	2/5/96	83.77	N/A	0.0	15.520	99.29
R-3	5/28/96	85.49	N/A	0.0	13.800	99.29
R-3	8/6/96	86.18	N/A	0.0	13.110	99.29
R-4	9/7/93	85.69	N/A	0.0	12.600	98.29
R-4	10/4/93	84.59	N/A	0.0	13.700	98.29
R-4	11/10/93	83.49	N/A	0.0	14.800	98.29
R-4	12/15/93	82.69	N/A	0.0	15.600	98.29
R-4	1/12/94	81.84	N/A	0.0	16.450	98.29
R-4	2/9/94	82.29	N/A	0.0	16.000	98.29
R-4	3/7/94	83.79	N/A	0.0	14.500	98.29
R-4	5/17/94	84.94	N/A	0.0	13.350	98.29
R-4	6/13/94	85.24	N/A	0.0	13.050	98.29
R-4	9/7/94	86.09	N/A	0.0	12.200	98.29
R-4	12/15/94	83.99	N/A	0.0	14.300	98.29
R-4	2/9/95	82.24	N/A	0.0	16.050	98.29
R-4	5/8/95	82.99	N/A	0.0	15.300	98.29
R-4	8/25/95	85.18	N/A	0.0	13.110	98.29
R-4	11/2/95	84.67	N/A	0.0	13.620	98.29
R-4	2/5/96	83.13	N/A	0.0	15.160	98.29
R-4	5/28/96	84.71	N/A	0.0	13.580	98.29
R-4	8/6/96	85.44	N/A	0.0	12.850	98.29
R-5	9/7/93	86.00	N/A	0.0	15.500	101.50
R-5	10/4/93	85.20	N/A	0.0	16.300	101.50
R-5	11/10/93	84.30	N/A	0.0	17.200	101.50
R-5	12/15/93	83.60	N/A	0.0	17.900	101.50
R-5	1/12/94	82.60	N/A	0.0	18.900	101.50
R-5	2/9/94	82.80	N/A	0.0	18.700	101.50
R-5	3/7/94	84.25	N/A	0.0	17.250	101.50
R-5	5/17/94	85.10	N/A	0.0	16.400	101.50
R-5	6/13/94	85.60	N/A	0.0	15.900	101.50
R-5	9/7/94	86.30	N/A	0.0	15.200	101.50
R-5	12/15/94	84.70	N/A	0.0	16.800	101.50
R-5	2/9/95	83.15	N/A	0.0	18.350	101.50
R-5	5/8/95	83.40	N/A	0.0	18.100	101.50
R-5	8/25/95	85.44	N/A	0.0	16.060	101.50
R-5	11/2/95	85.12	N/A	0.0	16.380	101.50
R-5	2/5/96	83.68	N/A	0.0	17.820	101.50

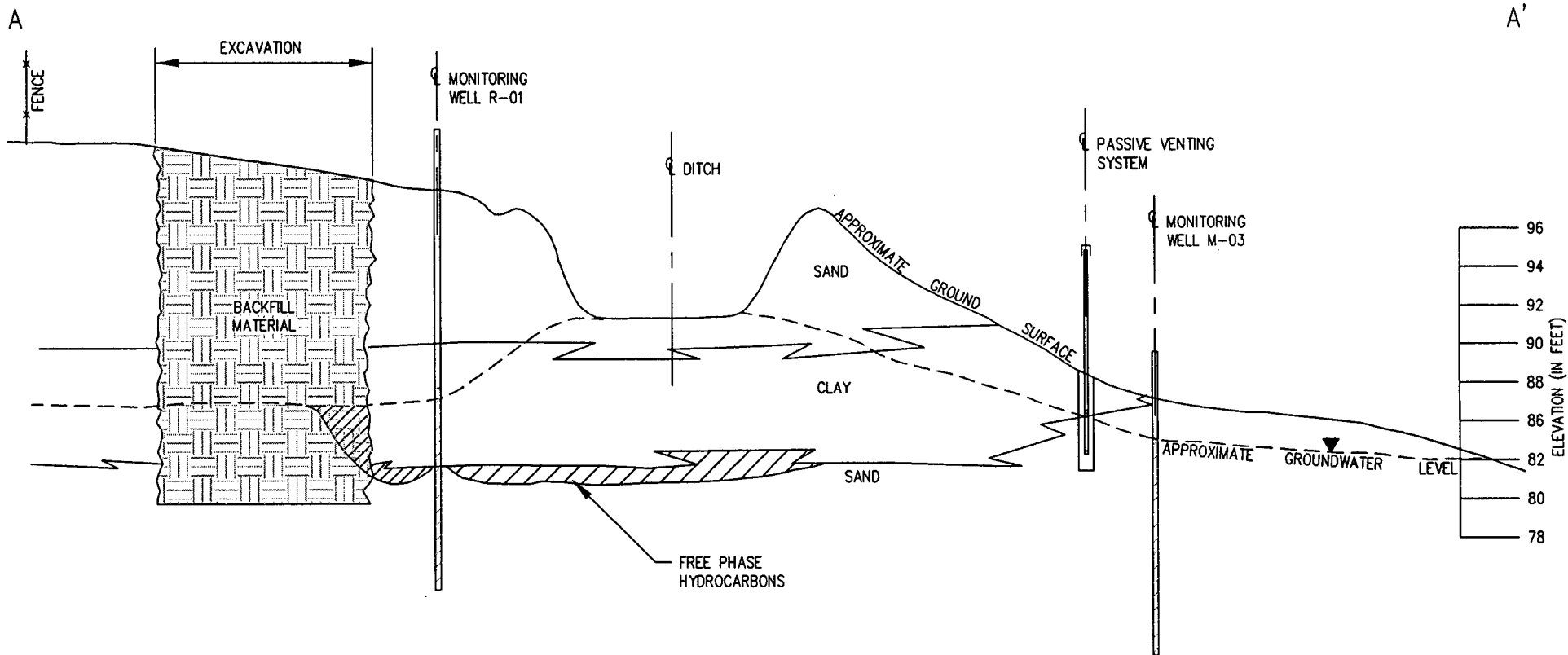
Well Number	Date	Water Elev.	Product Elev.	Floating Product Inches	Static Water Level T.O.P.	Ref. Elev. T.O.P.
R-5	5/28/96	84.78	N/A	0.0	16.720	101.50
R-5	8/6/96	85.41	N/A	0.0	16.090	101.50
M-1	9/8/93	80.99	N/A	0.0	3.850	84.84
M-1	10/5/93	79.99	N/A	0.0	4.850	84.84
M-1	11/11/93	79.44	N/A	0.0	5.400	84.84
M-1	12/16/93	78.64	N/A	0.0	6.200	84.84
M-1	1/13/94	78.34	N/A	0.0	6.500	84.84
M-1	2/10/94	78.94	N/A	0.0	5.900	84.84
M-1	3/7/94	79.34	N/A	0.0	5.500	84.84
M-1	5/17/94	79.24	N/A	0.0	5.600	84.84
M-1	6/13/94	80.39	N/A	0.0	4.450	84.84
M-1	9/7/94	80.94	N/A	0.0	3.900	84.84
M-1	12/15/94	79.84	N/A	0.0	5.000	84.84
M-1	2/9/95	78.69	N/A	0.0	6.150	84.84
M-1	5/8/95	79.04	N/A	0.0	5.800	84.84
M-1	8/25/95	80.39	N/A	0.0	4.450	84.84
M-1	11/2/95	79.53	N/A	0.0	5.310	84.84
M-1	2/5/96	78.85	N/A	0.0	5.990	84.84
M-1	5/28/96	79.83	N/A	0.0	5.010	84.84
M-1	8/6/96	80.41	N/A	0.0	4.430	84.84
M-2	9/8/93	82.89	N/A	0.0	3.000	85.89
M-2	10/5/93	81.39	N/A	0.0	4.500	85.89
M-2	11/11/93	80.49	N/A	0.0	5.400	85.89
M-2	12/16/93	79.89	N/A	0.0	6.000	85.89
M-2	1/13/94	79.34	N/A	0.0	6.550	85.89
M-2	2/10/94	79.54	N/A	0.0	6.350	85.89
M-2	3/7/94	80.54	N/A	0.0	5.350	85.89
M-2	5/17/94	81.74	N/A	0.0	4.150	85.89
M-2	6/13/94	81.59	N/A	0.0	4.300	85.89
M-2	9/7/94	82.24	N/A	0.0	3.650	85.89
M-2	12/15/94	80.99	N/A	0.0	4.900	85.89
M-2	2/9/95	79.89	N/A	0.0	6.000	85.89
M-2	5/5/95	80.39	N/A	0.0	5.500	85.89
M-2	8/25/95	81.68	N/A	0.0	4.210	85.89
M-2	11/2/95	81.39	N/A	0.0	4.500	85.89
M-2	2/5/96	80.03	N/A	0.0	5.860	85.89
M-2	5/28/96	81.31	N/A	0.0	4.580	85.89
M-2	8/6/96	82.32	N/A	0.0	3.570	85.89
M-3	9/8/93	83.49	N/A	0.0	4.300	87.79
M-3	10/5/93	82.54	N/A	0.0	5.250	87.79
M-3	11/11/93	81.74	N/A	0.0	6.050	87.79
M-3	12/16/93	80.89	N/A	0.0	6.900	87.79

Well Number	Date	Water Elev.	Product Elev.	Floating Product Inches	Static Water Level T.O.P.	Ref. Elev. T.O.P.
M-3	1/13/94	80.24	N/A	0.0	7.550	87.79
M-3	2/10/94	81.19	N/A	0.0	6.600	87.79
M-3	3/7/94	81.89	N/A	0.0	5.900	87.79
M-3	5/17/94	82.94	N/A	0.0	4.850	87.79
M-3	6/13/94	83.09	N/A	0.0	4.700	87.79
M-3	9/7/94	84.19	N/A	0.0	3.600	87.79
M-3	12/15/94	82.29	N/A	0.0	5.500	87.79
M-3	2/9/95	80.64	N/A	0.0	7.150	87.79
M-3	5/8/95	81.24	N/A	0.0	6.550	87.79
M-3	8/25/95	83.32	N/A	0.0	4.470	87.79
M-3	11/2/95	82.88	N/A	0.0	4.910	87.79
M-3	2/5/96	81.24	N/A	0.0	6.550	87.79
M-3	5/28/96	82.44	N/A	0.0	5.350	87.79
M-3	8/6/96	83.12	N/A	0.0	4.670	87.79
M-4	9/8/93	85.36	N/A	0.0	2.650	88.01
M-4	10/5/93	84.21	N/A	0.0	3.800	88.01
M-4	11/11/93	83.46	N/A	0.0	4.550	88.01
M-4	12/16/93	82.61	N/A	0.0	5.400	88.01
M-4	1/13/94	82.41	N/A	0.0	5.600	88.01
M-4	2/10/94	82.86	N/A	0.0	5.150	88.01
M-4	3/7/94	83.11	N/A	0.0	4.900	88.01
M-4	5/17/94	84.66	N/A	0.0	3.350	88.01
M-4	6/13/94	84.91	N/A	0.0	3.100	88.01
M-4	9/7/94	85.81	N/A	0.0	2.200	88.01
M-4	12/15/94	84.01	N/A	0.0	4.000	88.01
M-4	2/9/95	82.46	N/A	0.0	5.550	88.01
M-4	5/8/95	83.07	N/A	0.0	4.940	88.01
M-4	8/25/95	84.98	N/A	0.0	3.030	88.01
M-4	11/2/95	84.58	N/A	0.0	3.430	88.01
M-4	2/5/96	83.10	N/A	0.0	4.910	88.01
M-4	5/28/96	84.40	N/A	0.0	3.610	88.01
M-4	8/6/96	85.16	N/A	0.0	2.850	88.01
M-5	9/8/93	83.27	N/A	0.0	3.550	86.82
M-5	10/5/93	82.07	N/A	0.0	4.750	86.82
M-5	11/11/93	81.12	N/A	0.0	5.700	86.82
M-5	12/16/93	80.32	N/A	0.0	6.500	86.82
M-5	1/13/94	79.62	N/A	0.0	7.200	86.82
M-5	2/10/94	79.97	N/A	0.0	6.850	86.82
M-5	3/7/94	81.17	N/A	0.0	5.650	86.82
M-5	5/17/94	82.32	N/A	0.0	4.500	86.82
M-5	6/13/94	82.42	N/A	0.0	4.400	86.82
M-5	9/7/94	83.42	N/A	0.0	3.400	86.82
M-5	12/15/94	81.62	N/A	0.0	5.200	86.82

Well Number	Date	Water Elev.	Product Elev.	Floating Product Inches	Static Water Level T.O.P.	Ref. Elev. T.O.P.
M-5	2/9/95	80.12	N/A	0.0	6.700	86.82
M-5	5/8/95	80.72	N/A	0.0	6.100	86.82
M-5	8/25/95	82.64	N/A	0.0	4.180	86.82
M-5	11/2/95	82.21	N/A	0.0	4.610	86.82
M-5	2/5/96	80.65	N/A	0.0	6.170	86.82
M-5	5/28/96	82.13	N/A	0.0	4.690	86.82
M-5	8/6/96	82.95	N/A	0.0	3.870	86.82

Figure 1 - Site Map and Groundwater Contour Elevation Map

Figure 2 - Cross Section



TITLE:
JAQUEZ GAS COM E#1 & C#1
CROSS SECTION

NO.

REVISION

BY

APPR.

DATE

SCALE NONE

DATE

PROJECT NO: 16297

DWN: M.R.W.

9/11/96

EL PASO FIELD
SERVICES COMPANY

DES:

CHKD:

APPD:

FIGURE 2

REV.

0

Appendix A - Summary of BTEX Results

JAQUEZ COM. C #1 & JAQUEZ COM. E #1

MONITOR WELL SUMMARY

Well Number	Sample Number	Date of Sample	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Total Xylene ug/L	Total BTEX ug/L	PAH Analysis Performed	Floating Product Inches
R-1	N30969	9/7/93	991	164	113	1111	2379	No	ND
R-1	N31056	10/4/93	1280	1328	74	799	3481	No	1"
R-1	N31240	11/10/93	242	322	15.0	93.9	673	No	ND
R-1	N31384	12/15/93	328	411	26.6	196	962	No	ND
R-1	940026	1/12/94	1830	1965	90.3	1053	4938	No	17"
R-1	940233	2/9/94	1255	1504	42.3	730	3531	No	32"
R-1	940491	3/7/94	7600	8500	280	2700	19080	Yes	4"
R-1	N/A	5/17/94	No Test	No Test	No Test	No Test	No Test	No	10"
R-1	941003	6/13/94	1450	1930	70.0	944	4394	No	11"
R-1	N/A	9/7/94	No Test	No Test	No Test	No Test	No Test	No	2"
R-1	941619	12/15/94	1890	2130	105.0	990	5115	No	TR
R-1	N/A	8/25/95	No Test	No Test	No Test	No Test	No Test	No	TR
R-1	951178	11/2/95	2330	2400	108	946	5784	No	ND
R-1	N/A	2/5/96	No Test	No Test	No Test	No Test	No Test	Yes	0.24"
R-1	N/A	5/28/96	No Test	No Test	No Test	No Test	No Test	No	4.8"
R-1	960684	8/6/96	2970	3080	130	1200	7380	No	TR
R-2	N30970	9/7/93	278	651	59.0	538	1526	No	ND
R-2	N31057	10/4/93	509	789	73.0	741	2112	No	ND
R-2	N31241	11/10/93	284	470	38.0	401	1193	No	ND
R-2	N31385	12/15/93	529	864	65.3	709	2167	No	1"
R-2	940027	1/12/94	1722	2501	150	1702	6075	No	24"
R-2	940234	2/9/94	2806	3667	89.5	1520	8083	No	26"
R-2	940492	3/7/94	5600	6800	290	2700	15390	Yes	4"
R-2	N/A	5/17/94	No Test	No Test	No Test	No Test	No Test	No	7"
R-2	941004	6/13/94	3210	3790	139	1670	8809	No	7"
R-2	N/A	9/7/94	No Test	No Test	No Test	No Test	No Test	No	ND

Well Number	Sample Number	Date of Sample	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Total Xylene ug/L	Total BTEX ug/L	PAH Analysis Performed	Floating Product Inches
R-2	941620	12/15/94	1140	2200	148	1520	5008	No	0.6"
R-2	N/A	8/25/95	No Test	No Test	No Test	No Test	No Test	No	TR
R-2	951179	11/2/95	1250	2030	116	1010	4406	No	TR
R-2	N/A	2/5/96	No Test	No Test	No Test	No Test	No Test	Yes	2.52
R-2	N/A	5/28/96	No Test	No Test	No Test	No Test	No Test	No	2.04"
R-2	960685	8/6/96	2610	3960	165	1540	8275	No	0.72"
R-3	N30971	9/7/93	<2.0	61.4	22.0	207	290	No	ND
R-3	N31058	10/4/93	21	179	32.0	310	542	No	ND
R-3	N31242	11/10/93	6.19	27.7	10.4	89.2	134	No	ND
R-3	N31386	12/15/93	26	88.4	19.4	178	312	No	ND
R-3	940028	1/12/94	4.4	2.9	2.7	18	28	No	ND
R-3	940235	2/9/94	<2.0	10.9	8.3	59.6	79	No	ND
R-3	940493	3/7/94	7.7	43	24	220	295	Yes	ND
R-3	N/A	5/17/94	No Test	No Test	No Test	No Test	No Test	No	ND
R-3	941005	6/13/94	3.03	41.4	18.4	188	251	No	ND
R-3	941259	9/7/94	<2.5	18	6.9	67.9	93	No	ND
R-3	941621	12/15/94	11.7	12.2	12.4	114	150	No	ND
R-3	950099	2/9/95	7.36	2.7	2.68	20.8	34	Yes	ND
R-3	950562	5/8/95	16.6	11.7	13.9	126	168	No	ND
R-3	950896	8/25/95	<2.5	15.2	13.6	101	130	No	ND
R-3	951180	11/2/95	<2.5	14.0	9.3	82	105	No	ND
R-3	960095	2/5/96	5.34	14.0	12.8	108	140	Yes	ND
R-3	960479	5/28/96	1.05	18.7	22.9	203	246	No	ND
R-3	960686	8/6/96	1.24	24.7	25.9	236	288	No	ND
R-4	N30972	9/7/93	104	267	39.9	370	781	No	ND
R-4	N31060	10/4/93	118	266	41	364	789	No	ND
R-4	N31243	11/10/93	93.6	132	40.4	347	613	No	ND
R-4	N31387	12/15/93	102	161	48.4	418	729	No	ND
R-4	940030	1/12/94	124	101	38.5	353	617	No	ND

Well Number	Sample Number	Date of Sample	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Total Xylene ug/L	Total BTEX ug/L	PAH Analysis Performed	Floating Product Inches
R-4	940237	2/9/94	120	51.4	20.8	150	342	No	ND
R-4	940494	3/7/94	150	63	20	190	423	Yes	ND
R-4	N/A	5/17/94	No Test	No Test	No Test	No Test	No Test	No	ND
R-4	941007	6/13/94	179	60.6	17.2	176	433	No	ND
R-4	941260	9/7/94	238	102	26	218	584	No	ND
R-4	941622	12/15/94	222	63.3	26.9	213	525	No	ND
R-4	950100	2/9/95	273	61	20.4	165	519	Yes	ND
R-4	950564	5/8/95	278	251	23.1	220	772	No	ND
R-4	950897	8/25/95	646	278	50.8	544	1519	No	ND
R-4	951181	11/2/95	343	60.4	35.1	284	723	No	ND
R-4	960097	2/5/96	218	43.3	23.1	200	484	Yes	ND
R-4	960481	5/28/96	716	199.0	36.6	394	1346	No	ND
R-4	960687	8/6/96	384	156.0	24	275	839	No	ND
R-5	N30973	9/7/93	<2.0	<2.0	<2.0	<2.0	N/A	No	ND
R-5	N31061	10/4/93	<2.0	<2.0	<2.0	<2.0	N/A	No	ND
R-5	N31244	11/10/93	<2.0	<2.0	<2.0	<2.0	N/A	No	ND
R-5	N31388	12/15/93	<2.0	<2.0	<2.0	<2.0	N/A	No	ND
R-5	940031	1/12/94	<2.0	<2.0	<2.0	<2.0	N/A	No	ND
R-5	940238	2/9/94	<2.0	<2.0	<2.0	<2.0	N/A	No	ND
R-5	940496	3/7/94	<0.5	<0.5	<0.5	<0.5	N/A	Yes	ND
R-5	N/A	5/17/94	No Test	No Test	No Test	No Test	No Test	No	ND
R-5	941008	6/13/94	<2.0	<2.0	<2.0	<2.0	N/A	No	ND
R-5	941261	9/7/94	<2.5	<2.5	<2.5	<2.5	N/A	No	ND
R-5	941623	12/15/94	<2.5	<2.5	<2.5	<2.5	N/A	No	ND
R-5	950102	2/9/95	<2.5	<2.5	<2.5	<2.5	N/A	Yes	ND
R-5	950565	5/8/95	<2.5	<2.5	<2.5	<2.5	N/A	No	ND
R-5	950898	8/25/95	<2.5	<2.5	<2.5	<2.5	N/A	No	ND
R-5	951182	11/2/95	<2.5	<2.5	<2.5	<2.5	N/A	No	ND
R-5	960098	2/5/96	<2.5	<2.5	<2.5	<2.5	N/A	Yes	ND
R-5	960482	5/28/96	<1.0	<1.0	<1.0	<1.0	N/A	No	ND
R-5	960689	8/6/96	<1.0	<1.0	<1.0	<1.0	N/A	No	ND

Well Number	Sample Number	Date of Sample	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Total Xylene ug/L	Total BTEX ug/L	PAH Analysis Performed	Floating Product Inches
M-1	N30974	9/8/93	<2.0	<2.0	<2.0	<2.0	N/A	No	ND
M-1	N31062	10/5/93	<2.0	<2.0	<2.0	<2.0	N/A	No	ND
M-1	N31245	11/11/93	<2.0	<2.0	<2.0	<2.0	N/A	No	ND
M-1	N31389	12/16/93	<2.0	<2.0	<2.0	<2.0	N/A	No	ND
M-1	940032	1/13/94	<2.0	<2.0	<2.0	<2.0	N/A	No	ND
M-1	940239	2/10/94	<2.0	<2.0	<2.0	<2.0	N/A	No	ND
M-1	940497	3/7/94	<0.5	<0.5	<0.5	<0.5	N/A	Yes	ND
M-1	N/A	5/17/94	No Test	No Test	No Test	No Test	No Test	No	ND
M-1	941009	6/13/94	<2.0	<2.0	<2.0	<2.0	N/A	No	ND
M-1	941262	9/7/94	<2.5	<2.5	<2.5	<2.5	N/A	No	ND
M-1	941624	12/15/94	<2.5	<2.5	<2.5	<2.5	N/A	No	ND
M-1	950103	2/9/95	<2.5	<2.5	<2.5	<2.5	N/A	Yes	ND
M-1	950566	5/8/95	<2.5	<2.5	<2.5	<2.5	N/A	No	ND
M-1	950899	8/25/95	<2.5	<2.5	<2.5	<2.5	N/A	No	ND
M-1	951183	11/2/95	<2.5	<2.5	<2.5	<2.5	N/A	No	ND
M-1	960099	2/5/96	<2.5	<2.5	<2.5	<2.5	N/A	Yes	ND
M-1	960483	5/28/96	<1.0	<1.0	<1.0	<1.0	N/A	No	ND
M-1	960690	8/6/96	<1.0	<1.0	<1.0	<1.0	N/A	No	ND
M-2	N30975	9/8/93	<2.0	<2.0	<2.0	<2.0	N/A	No	ND
M-2	N31063	10/5/93	2.0	2.0	<2.0	<2.0	4.0	No	ND
M-2	N31246	11/11/93	2.3	2.0	<2.0	<2.0	4.3	No	ND
M-2	N31390	12/16/93	<2.0	<2.0	<2.0	<2.0	N/A	No	ND
M-2	940033	1/13/94	<2.0	<2.0	<2.0	<2.0	N/A	No	ND
M-2	940240	2/10/94	<2.0	<2.0	<2.0	<2.0	N/A	No	ND
M-2	940498	3/7/94	<0.5	<0.5	<0.5	<0.5	N/A	Yes	ND
M-2	N/A	5/17/94	No Test	No Test	No Test	No Test	No Test	No	ND
M-2	941010	6/13/94	<2.0	<2.0	<2.0	<2.0	N/A	No	ND
M-2	941263	9/7/94	<2.5	<2.5	<2.5	<2.5	N/A	No	ND
M-2	941625	12/15/94	<2.5	<2.5	<2.5	<2.5	N/A	No	ND

Well Number	Sample Number	Date of Sample	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Total Xylene ug/L	Total BTEX ug/L	PAH Analysis Performed	Floating Product Inches
M-2	950104	2/9/95	<2.5	<2.5	<2.5	<2.5	N/A	Yes	ND
M-2	950567	5/5/95	<2.5	<2.5	<2.5	<2.5	N/A	No	ND
M-2	950900	8/25/95	<2.5	<2.5	<2.5	<2.5	N/A	No	ND
M-2	951184	11/2/95	<2.5	<2.5	<2.5	<2.5	N/A	No	ND
M-2	960100	2/5/96	<2.5	<2.5	<2.5	<2.5	N/A	Yes	ND
M-2	960484	5/28/96	<1.0	<1.0	<1.0	<1.0	N/A	No	ND
M-2	960691	8/6/96	<1.0	<1.0	<1.0	<1.0	N/A	No	ND
M-3	N30976	9/8/93	116	<2.0	3.0	37.6	157	No	ND
M-3	N31064	10/5/93	306	<2.0	4.0	19	329	No	ND
M-3	N31247	11/11/93	8.4	5.3	<2.0	2.6	16	No	ND
M-3	N31391	12/16/93	42	<2.0	<2.0	<2.0	42	No	ND
M-3	940034	1/13/94	19	2.1	<2.0	<2.0	21	No	ND
M-3	940241	2/10/94	<2.0	<2.0	<2.0	<2.0	N/A	No	ND
M-3	940499	3/7/94	<0.5	<0.5	<0.5	2.5	3	Yes	ND
M-3	N/A	5/17/94	No Test	No Test	No Test	No Test	No Test	No	ND
M-3	941011	6/13/94	3.65	<2.0	<2.0	<2.0	4	No	ND
M-3	941264	9/7/94	2.87	<2.5	<2.5	2.5	5	No	ND
M-3	941626	12/15/94	<2.5	<2.5	<2.5	5.61	6	No	ND
M-3	950105	2/9/95	11.4	<2.5	<2.5	<2.5	11	Yes	ND
M-3	950568	5/8/95	180	67.2	<2.5	53.9	301	No	ND
M-3	950901	8/25/95	11.8	<2.5	<2.5	16.8	29	No	ND
M-3	951185	11/2/95	<2.5	<2.5	<2.5	5.03	5	No	ND
M-3	960101	2/5/96	236	<2.5	5.77	22.2	264	Yes	ND
M-3	960485	5/28/96	88.4	<1.0	5.93	20.3	115	No	ND
M-3	960692	8/6/96	96.4	<1.0	2.5	3.27	102	No	ND
M-4	N30977	9/8/93	213	13.3	58	519	803	No	ND
M-4	N31065	10/5/93	302	2.0	55	395	754	No	ND
M-4	N31248	11/11/93	234	2.0	56	383	675	No	ND
M-4	N31392	12/16/93	171	<2.0	34.3	244	449	No	ND

Well Number	Sample Number	Date of Sample	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Total Xylene ug/L	Total BTEX ug/L	PAH Analysis Performed	Floating Product Inches
M-4	940035	1/13/94	175	2.5	38	288	504	No	ND
M-4	940242	2/10/94	137	< 2.0	29.8	192	359	No	ND
M-4	940500	3/7/94	120	< 2.5	27	220	367	Yes	ND
M-4	N/A	5/17/94	No Test	No Test	No Test	No Test	No Test	No	ND
M-4	941012	6/13/94	151	< 2.0	28.4	246	425	No	ND
M-4	941265	9/7/94	145	< 2.5	24.1	231	400	No	ND
M-4	941628	12/15/94	184	< 2.5	22.3	215	421	No	ND
M-4	950106	2/9/95	160	< 2.5	19.6	186	366	Yes	ND
M-4	950569	5/8/95	108	< 2.5	11.7	119	239	No	ND
M-4	950902	8/25/95	29.3	< 2.5	13	116	158	No	ND
M-4	951187	11/2/95	15.1	< 2.5	12.9	136	164	No	ND
M-4	960102	2/5/96	33.5	< 2.5	19.3	209	262	Yes	ND
M-4	960486	5/28/96	17	< 1.0	8.93	93.6	120	No	ND
M-4	960693	8/6/96	2.77	< 1.0	3.5	38.5	45	No	ND
M-5	N30979	9/8/93	< 2.0	< 2.0	< 2.0	< 2.0	N/A	No	ND
M-5	N31066	10/5/93	< 2.0	< 2.0	< 2.0	< 2.0	N/A	No	ND
M-5	N31250	11/11/93	< 2.0	< 2.0	< 2.0	< 2.0	N/A	No	ND
M-5	N31393	12/16/93	< 2.0	< 2.0	< 2.0	< 2.0	N/A	No	ND
M-5	940036	1/13/94	< 2.0	< 2.0	< 2.0	< 2.0	N/A	No	ND
M-5	940243	2/10/94	< 2.0	< 2.0	< 2.0	< 2.0	N/A	No	ND
M-5	940501	3/7/94	< 0.5	< 0.5	< 0.5	< 0.5	N/A	Yes	ND
M-5	N/A	5/17/94	No Test	No Test	No Test	No Test	No Test	No	ND
M-5	941013	6/13/94	< 2.0	< 2.0	< 2.0	< 2.0	N/A	No	ND
M-5	941267	9/7/94	< 2.5	< 2.5	< 2.5	< 2.5	N/A	No	ND
M-5	941629	12/15/94	< 2.5	< 2.5	< 2.5	< 2.5	N/A	No	ND
M-5	950107	2/9/95	< 2.5	< 2.5	< 2.5	< 2.5	N/A	Yes	ND
M-5	950570	5/8/95	< 2.5	< 2.5	< 2.5	< 2.5	N/A	No	ND
M-5	950904	8/25/95	< 2.5	< 2.5	< 2.5	< 2.5	N/A	No	ND
M-5	951188	11/2/95	< 2.5	< 2.5	< 2.5	< 2.5	N/A	No	ND
M-5	960103	2/5/96	< 2.5	< 2.5	< 2.5	< 2.5	N/A	Yes	ND

Well Number	Sample Number	Date of Sample	Benzene ug/L	Toluene ug/L	Ethyl-Benzene ug/L	Total Xylene ug/L	Total BTEX ug/L	PAH Analysis Performed	Floating Product Inches
M-5	960487	5/28/96	< 1.0	< 1.0	< 1.0	< 1.0	N/A	No	ND
M-5	960694	8/6/96	< 1.0	< 1.0	< 1.0	< 3.0	N/A	No	ND

**Appendix B - BTEX Analytical Results From the Current
Report Period**

June 11, 1996

2nd Quarter 1996 REPORT

**Jaquez Corn Field
Monitor Well Analytical Results
Lab Sample #'s 960479 to 960487
Sampled May 28, 1996
Sampled by D. Bird**

Report Distribution:

Results Log Book



CHAIN OF CUSTODY RECORD

WHITE-Testing Laboratory YELLOW-FPNG Lab PINK-Field Sampler



EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	960479
METER CODE:	NA
SITE NAME:	Jaquez
SAMPLE SITE:	Monitor Well R-3
SAMPLE DATE:	05/28/96
SAMPLE TIME (Hrs):	1043
SAMPLED BY:	D. Bird
DATE OF BTEX ANALYSIS:	05/29/96
SAMPLE TYPE:	Water

REMARKS: _____

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER	WQCC LIMIT PPB
BENZENE	1.05		10
TOLUENE	18.7		740
ETHYL BENZENE	22.9		750
TOTAL XYLENES	203		620
SURROGATE % RECOVERY	96.7	Allowed Range 80 to 120 %	

NOTES:

Reported By: mh

Approved By: John L. Litch

Date: 6/5/96



EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY

ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	960480
METER CODE:	NA
SITE NAME:	Jaquez
SAMPLE SITE:	Monitor Well R-3
SAMPLE DATE:	05/28/96
SAMPLE TIME (Hrs):	1043
SAMPLED BY:	D. Bird
DATE OF BTEX ANALYSIS:	05/29/96
SAMPLE TYPE:	Water

REMARKS: Field Duplicate

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER	WQCC LIMIT PPB
BENZENE	1.79		10
TOLUENE	32.3		740
ETHYL BENZENE	32.4		750
TOTAL XYLENES	301		620
SURROGATE % RECOVERY	97.7	Allowed Range 80 to 120 %	

NOTES:

Reported By:

mh

Approved By:

John L. Loeble

Date:

6/5/96



EL PASO FIELD SERVICES

Well Development and Purging Data

Site Name JAUQUEZ

☐ Development
☒ Purging

Well Number P-3

Meter Code _____

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal
☒ Stabilization of Indicator Parameters
☐ Other _____

Methods of Development

- Pump Bailer
☐ Centrifugal ☒ Bottom Valve
☐ Submersible ☐ Double Check Valve
☐ Peristaltic ☐ Stainless-steel Kemmerer
☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 22.1
Initial Depth to Water (feet) 13.8
Height of Water Column in Well (feet) 8.3

Diameter (inches): Well 4" Gravel Pack _____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			<u>16.7</u>
Gravel Pack			
Drilling Fluids			
Total			

Instruments

- ☒ pH Meter
☒ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☐ Other _____

Water Disposal

ON SITE BARREL

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
5-28-96	1000										12.8	6.94	615		
5-28-96	1009						5.0	5.0			11.4	7.00	655		
5-28-96	1018						5.0	10.0			12.2	7.08	540		
5-28-96	1028						5.0	15.0			12.0	7.06	481		
5-28-96	1035						5.0	20.0			12.4	7.13	443	1.5	

Comments _____

Developer's Signature

Pennie Bird

Date

5-28-96

Reviewer

JS

Date

6/7/96

EPFS

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	960481
METER CODE:	NA
SITE NAME:	Jaquez
SAMPLE SITE:	Monitor Well R-4
SAMPLE DATE:	05/28/96
SAMPLE TIME (Hrs):	1153
SAMPLED BY:	D. Bird
DATE OF BTEX ANALYSIS:	05/29/96
SAMPLE TYPE:	Water

REMARKS:

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER	WQCC LIMIT PPB
BENZENE	716	D (X5)	10
TOLUENE	199	D (X2)	140
ETHYL BENZENE	36.6	D (X2)	750
TOTAL XYLENES	394	D (X2)	620
SURROGATE % RECOVERY	96.9	Allowed Range 80 to 120 %	

NOTES:
The "D" Qualifier indicates that the reported result for this analyte is calculated based on the secondary dilution factor shown.

Reported By:

mh

Approved By:

John Landa

Date:

6/5/96



EL PASO FIELD SERVICES

Well Development and Purging Data

Site Name JAUQUEZ

☐ Development
☒ Purging

Well Number R-4

Meter Code _____

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal
☒ Stabilization of Indicator Parameters
☐ Other _____

Methods of Development

- ☐ Pump
☐ Centrifugal
☐ Submersible
☐ Peristaltic
☐ Other _____
- ☐ Bailer
☐ Bottom Valve
☐ Double Check Valve
☐ Stainless-steel Kemmerer

Water Volume Calculation

Initial Depth of Well (feet) 22.1
Initial Depth to Water (feet) 13.58
Height of Water Column in Well (feet) 8.52

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			<u>17.1</u>
Gravel Pack			
Drilling Fluids			
Total			

Instruments

- ☒ pH Meter
☒ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☐ Other _____

Water Disposal

ON SITE BARREL

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
5-28-96	1108										14.8	6.82	643		
5-28-96	1115						5.0	5.0			13.8	7.17	681		
5-28-96	1122						5.0	10.0			14.0	7.23	834		
5-28-96	1139						5.0	15.0			14.6	7.31	1025		
5-28-96	1149						5.0	20.0			14.6	7.40	1117	1.5	

Comments _____

Developer's Signature

Dennis Bird

Date

5-28-96

Reviewer

JF

Date

6/7/96



EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY

ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:

960482

METER CODE:

NA

SITE NAME:

Jaquez

SAMPLE SITE:

Monitor Well R-5

SAMPLE DATE:

05/28/96

SAMPLE TIME (Hrs):

1243

SAMPLED BY:

D. Bird

DATE OF BTEX ANALYSIS:

05/29/96

SAMPLE TYPE:

Water

REMARKS:

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER	WQCC LIMIT PPB
BENZENE	< 1.0		10
TOLUENE	< 1.0		740
ETHYL BENZENE	< 1.0		750
TOTAL XYLENES	< 3.0		620
SURROGATE % RECOVERY	96.1	Allowed Range 80 to 120 %	

NOTES:

Reported By:

mh

Approved By:

John L. Litch

Date:

6/5/96



EL PASO FIELD SERVICES

Well Development and Purging Data

Site Name JAYUEZ

☐ Development
☒ Purging

Well Number R-5

Meter Code _____

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal
☒ Stabilization of Indicator Parameters
☐ Other _____

Methods of Development

- Pump Bailer
☐ Centrifugal ☒ Bottom Valve
☐ Submersible ☐ Double Check Valve
☐ Peristaltic ☐ Stainless-steel Kemmerer
☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 24.4
Initial Depth to Water (feet) 7.68
Height of Water Column in Well (feet) 7.68

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			<u>15.4</u>
Gravel Pack			
Drilling Fluids			
Total			

Instruments

- ☒ pH Meter
☒ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☐ Other _____

Water Disposal

ON SITE BARREL

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
5-28-96	1208										16.8	7.42	731		
5-28-96	1215						5.0	5.0			17.2	7.69	883		
5-28-96	1227						3.0	8.0			16.3	7.52	1158		
5-28-96	1239						2.0	10.0			16.5	7.55	824	3.0	

Comments BAILED DRY @ 8.0 gpm.

Developer's Signature Dennis Bina

Date 5-28-96 Reviewer JF

Date 6/7/96

EPFS

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	960483
METER CODE:	NA
SITE NAME:	Jaquez
SAMPLE SITE:	Monitor Well M-1
SAMPLE DATE:	05/28/96
SAMPLE TIME (Hrs):	1412
SAMPLED BY:	D. Bird
DATE OF BTEX ANALYSIS:	05/29/96
SAMPLE TYPE:	Water

REMARKS:

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER	WQCC LIMIT PPB
BENZENE	<1.0		10
TOLUENE	<1.0		740
ETHYL BENZENE	<1.0		750
TOTAL XYLENES	<3.0		620
SURROGATE % RECOVERY	98.8	Allowed Range 80 to 120 %	

NOTES:

Reported By: mh

Approved By: John L. L...

Date: 6/5/96



EL PASO FIELD SERVICES

Well Development and Purging Data

Site Name JAGUEZ

☐ Development
☒ Purging

Well Number M-1

Meter Code _____

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal
☒ Stabilization of Indicator Parameters
☐ Other _____

Methods of Development

- ☐ Pump ☐ Bailer
☐ Centrifugal ☒ Bottom Valve
☐ Submersible ☐ Double Check Valve
☐ Peristaltic ☐ Stainless-steel Kemmerer
☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 15.3
Initial Depth to Water (feet) 5.81
Height of Water Column in Well (feet) 10.29

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			<u>20.7</u>
Gravel Pack			
Drilling Fluids			
Total			

Instruments

- ☒ pH Meter
☒ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☐ Other _____

Water Disposal

ON SITE BARREL

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
5-28-96	1328										18.1	6.84	305		
5-28-96	1332						5.0	5.0			14.0	7.00	306		
5-28-96	1343						2.5	7.5			14.7	7.82	306		
5-28-96	1400						2.5	10.0			15.9	7.27	298	4.0	

Comments

BAILED DRY @ 7.5 gpm

Developer's Signature

Lennia Bird

Date

5-28-96

Reviewer

JF

Date

6/7/96



EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY

ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:

960484

METER CODE:

NA

SITE NAME:

Jaquez

SAMPLE SITE:

Monitor Well M-2

SAMPLE DATE:

05/28/96

SAMPLE TIME (Hrs):

1505

SAMPLED BY:

D. Bird

DATE OF BTEX ANALYSIS:

05/29/96

SAMPLE TYPE:

Water

REMARKS:

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER	WQCC LIMIT PPB
BENZENE	< 1.0		10
TOLUENE	< 1.0		740
ETHYL BENZENE	< 1.0		750
TOTAL XYLENES	< 3.0		620
SURROGATE % RECOVERY	99.6	Allowed Range 80 to 120 %	

NOTES:

Reported By:

mh

Approved By:

John L. Latta

Date:

6/5/96



EL PASO FIELD SERVICES

Well Development and Purging Data

Site Name JAGUEZ

☐ Development
☒ Purging

Well Number M-2

Meter Code _____

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal
☒ Stabilization of Indicator Parameters
☐ Other _____

Methods of Development

- Pump Bailer
☐ Centrifugal ☒ Bottom Valve
☐ Submersible ☐ Double Check Valve
☐ Peristaltic ☐ Stainless-steel Kemmerer
☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 15.1
Initial Depth to Water (feet) 4.58
Height of Water Column in Well (feet) 10.52

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			<u>21.1</u>
Gravel Pack			
Drilling Fluids			
Total			

Instruments

- ☒ pH Meter
☒ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☐ Other _____

Water Disposal

ON SITE BARRELL

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
5-28-96	1428										15.8	6.71	573		
5-28-96	1433						5.0	5.0			15.3	6.79	570		
5-28-96	1438						5.0	10.0			14.0	6.82	618		
5-28-96	1445						5.0	15.0			14.0	6.82	609		
5-28-96	1450						5.0	20.0			14.1	6.88	612		
5-28-96	1458						5.0	25.0			13.8	6.90	618	1.5	

Comments _____

Developer's Signature

Dennis Bird

Date

5-28-96

Reviewer

JS

Date

6/17/96

EPFS

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	960485
METER CODE:	NA
SITE NAME:	Jaquez
SAMPLE SITE:	Monitor Well M-3
SAMPLE DATE:	05/28/96
SAMPLE TIME (Hrs):	1556
SAMPLED BY:	D. Bird
DATE OF BTEX ANALYSIS:	05/29/96
SAMPLE TYPE:	Water

REMARKS:

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER	WQCC LIMIT PPB
BENZENE	88.4		0
TOLUENE	< 1.0		740
ETHYL BENZENE	5.93		750
TOTAL XYLENES	20.3		620
SURROGATE % RECOVERY	97.5	Allowed Range 80 to 120 %	

NOTES:

Reported By:

mh

Approved By:

[Signature]

Date:

6/5/96



EL PASO FIELD SERVICES

Well Development and Purging Data

Site Name JARQUEZ

☒ Development
☒ Purging

Well Number M-3

Meter Code _____

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal
☒ Stabilization of Indicator Parameters
☐ Other _____

Methods of Development

- Pump Bailer
☐ Centrifugal ☒ Bottom Valve
☐ Submersible ☐ Double Check Valve
☐ Peristaltic ☐ Stainless-steel Kemmerer
☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 15.2
Initial Depth to Water (feet) 3.35
Height of Water Column in Well (feet) 9.85

Diameter (inches): Well _____ Gravel Pack _____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			<u>19.8</u>
Gravel Pack			
Drilling Fluids			
Total			

Instruments

- ☒ pH Meter
☒ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☐ Other _____

Water Disposal

ON SITE BARREL

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
5-28-96	1521										17.1	6.95	468		
5-28-96	1525						5.0	5.0			14.3	6.96	494		
5-28-96	1535						5.0	10.0			14.1	7.10	438		
5-28-96	1543						5.0	15.0			13.7	7.08	440		
5-28-96	1548						5.0	20.0			14.0	7.16	410	2.5	

Comments _____

Developer's Signature

Pennia Bird

Date

5-28-96

Reviewer

J.S.

Date

6/7/96

EPFS

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	960486
METER CODE:	NA
SITE NAME:	Jaquez
SAMPLE SITE:	Monitor Well M-4
SAMPLE DATE:	05/28/96
SAMPLE TIME (Hrs):	1703
SAMPLED BY:	D. Bird
DATE OF BTEX ANALYSIS:	05/29/96
SAMPLE TYPE:	Water

REMARKS: _____

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER	WQCC LIMIT PPB
BENZENE	17.0		10
TOLUENE	< 1.0		740
ETHYL BENZENE	8.93		750
TOTAL XYLENES	93.6		620
SURROGATE % RECOVERY	99.6	Allowed Range 80 to 120 %	

NOTES:

Reported By: mh

Approved By: [Signature]

Date: 6/5/96



EL PASO FIELD SERVICES

Well Development and Purging Data

Site Name JAUQUEZ

☒ Development
☒ Purging

Well Number M-4

Meter Code _____

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal
☒ Stabilization of Indicator Parameters
☐ Other _____

Methods of Development

- Pump Bailer
☐ Centrifugal ☒ Bottom Valve
☐ Submersible ☐ Double Check Valve
☐ Peristaltic ☐ Stainless-steel Kemmerer
☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 15.3
Initial Depth to Water (feet) 3.61
Height of Water Column in Well (feet) 11.69
Diameter (inches): Well _____ Gravel Pack _____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			<u>23.5</u>
Gravel Pack			
Drilling Fluids			
Total			

Instruments

- ☒ pH Meter
☒ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☐ Other _____

Water Disposal

ON SITE BARREL

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
5-28-96	1623										17.5	7.24	467		
5-28-96	1628						5.0	5.0			15.1	7.23	472		
5-28-96	1656						5.0	10.0			13.8	7.45	434	5.0	

Comments

BAILED DRY @ 9.0 gph

Developer's Signature

Dennis Birch

Date

5-28-96

Reviewer

[Signature]

Date

6/7/96

EPFS

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER: 960487
METER CODE: NA
SITE NAME: Jaquez
SAMPLE SITE: Monitor Well M-5
SAMPLE DATE: 05/28/96
SAMPLE TIME (Hrs): 1803
SAMPLED BY: D. Bird
DATE OF BTEX ANALYSIS: 05/29/96
SAMPLE TYPE: Water

REMARKS:

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER	WQCC LIMIT PPB
BENZENE	< 1.0		10
TOLUENE	< 1.0		740
ETHYL BENZENE	< 1.0		750
TOTAL XYLENES	< 3.0		620
SURROGATE % RECOVERY	99.8	Allowed Range 80 to 120 %	

NOTES:

Reported By:

mh

Approved By:

[Signature]

Date:

6/5/96



EL PASO FIELD SERVICES

Well Development and Purging Data

Site Name JAUQUEZ

☐ Development
☒ Purging

Well Number M-5

Meter Code _____

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal
☒ Stabilization of Indicator Parameters
☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 15.1
Initial Depth to Water (feet) 4.69
Height of Water Column in Well (feet) 10.41

Diameter (inches): Well _____ Gravel Pack _____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing			<u>20.9</u>
Gravel Pack			
Drilling Fluids			
Total			

Instruments

- ☒ pH Meter
☒ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☐ Other _____

Methods of Development

- ☐ Pump
☐ Centrifugal
☐ Submersible
☐ Peristaltic
☒ Bailer
☒ Bottom Valve
☐ Double Check Valve
☐ Stainless-steel Kemmerer

☐ Other _____

Water Disposal

ON SITE BARREL

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
5-28-96	1715										15.5	6.90	387		
5-28-96	1720						5.0	5.0			12.8	6.92	470		
5-28-96	1725						5.0	10.0			12.6	7.05	502		
5-28-96	1740						5.0	15.0			12.4	7.07	513		
5-28-96	1749						5.0	20.0			12.0	7.04	503		
5-28-96	1755						3.0	23.0			12.3	7.17	507	6.0	

Comments _____

Developer's Signature Dennis Bird Date 5-28-96 Reviewer JF Date 6/7/96

EPFS

EL PASO FIELD SERVICES

QUALITY CONTROL REPORT EPA METHOD 8020 - BTEX

Samples: 960479 through 960487, and 960492

QA/QC for 05/29/96 Sample Set

LABORATORY CALIBRATION CHECKS / LABORATORY CONTROL SAMPLES:

SAMPLE NUMBER	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE YES NO RANGE	
ICV LA-52589 50 PPB						
Benzene	Standard	50.0	48.5	97.0	75 - 125 %	X
Toluene	Standard	50.0	48.5	97.0	75 - 125 %	X
Ethylbenzene	Standard	50.0	48.4	96.8	75 - 125 %	X
m & p - Xylene	Standard	100	97.1	97.1	75 - 125 %	X
o - Xylene	Standard	50.0	48.1	96.2	75 - 125 %	X
LCS LA-45476 25 PPB						
Benzene	Standard	25.0	24.6	98.4	39 - 150	X
Toluene	Standard	25.0	24.6	98.4	46 - 148	X
Ethylbenzene	Standard	25.0	24.5	98.0	32 - 160	X
m & p - Xylene	Standard	50	49.5	99.0	Not Given	X
o - Xylene	Standard	25.0	24.6	98.4	Not Given	X
CCV LA-52589 50 PPB						
Benzene	Standard	50.0	50.1	100	75 - 125 %	X
Toluene	Standard	50.0	50.1	100	75 - 125 %	X
Ethylbenzene	Standard	50.0	50.3	101	75 - 125 %	X
m & p - Xylene	Standard	100	99.9	99.9	75 - 125 %	X
o - Xylene	Standard	50.0	50.2	100	75 - 125 %	X
CCV LA-52589 50 PPB						
Benzene	Standard	50.0	50.7	101	75 - 125 %	X
Toluene	Standard	50.0	50.6	101	75 - 125 %	X
Ethylbenzene	Standard	50.0	50.5	101	75 - 125 %	X
m & p - Xylene	Standard	100	99.7	99.7	75 - 125 %	X
o - Xylene	Standard	50.0	50.3	101	75 - 125 %	X

Interpretive: Acceptable.

EL PASO FIELD SERVICES LAB
QUALITY CONTROL REPORT
EPA METHOD 8020 - BTEX
Samples: 960479 through 960487, and 960492

LABORATORY DUPLICATES:

SAMPLE ID	TYPE	SAMPLE RESULT PPB	DUPLICATE RESULT PPB	RPD	ACCEPTABLE	
					YES	NO
960480					RANGE	
Benzene	Matrix Duplicate	1.79	1.27	34	+/- 20 %	NA
Toluene	Matrix Duplicate	32.3	30.8	5	+/- 20 %	X
Ethylbenzene	Matrix Duplicate	32.3	32.6	1	+/- 20 %	X
m & p - Xylene	Matrix Duplicate	235	235	0	+/- 20 %	X
o - Xylene	Matrix Duplicate	63.5	64.0	1	+/- 20 %	X

Narrative: Benzene results are <5X MDL.

LABORATORY SPIKES:

SAMPLE ID	SPIKE ADDED PPB	SAMPLE RESULT PPB	SPIKE SAMPLE RESULT PPB	%R	ACCEPTABLE	
					YES	NO
2nd Analysis 960480					RANGE	
Benzene	50	1.79	50.4	97	75 - 125 %	X
Toluene	50	32.3	86.4	108.2	75 - 125 %	X
Ethylbenzene	50	32.3	80.6	96.6	75 - 125 %	X
m & p - Xylene	100	235	317	82.0	75 - 125 %	X
o - Xylene	50	63.5	109	91.0	75 - 125 %	X

Narrative: The spiked sample result for m & p - xylenes exceeded the calibration range.

ADDITIONAL ANALYTICAL BLANKS:

AUTO BLANK	SOURCE	PPB	STATUS
Benzene	Boiled Water	<1.0	ACCEPTABLE
Toluene	Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

SOIL VIAL BLANK	SOURCE Lot MB1461	PPB (Analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

CONTAMINATION CARRYOVER CHECK	SOURCE	PPB (Two analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

Reported By: mh

Approved By: John L. Linder

Date: 5/30/96



CHAIN OF CUSTODY RECORD

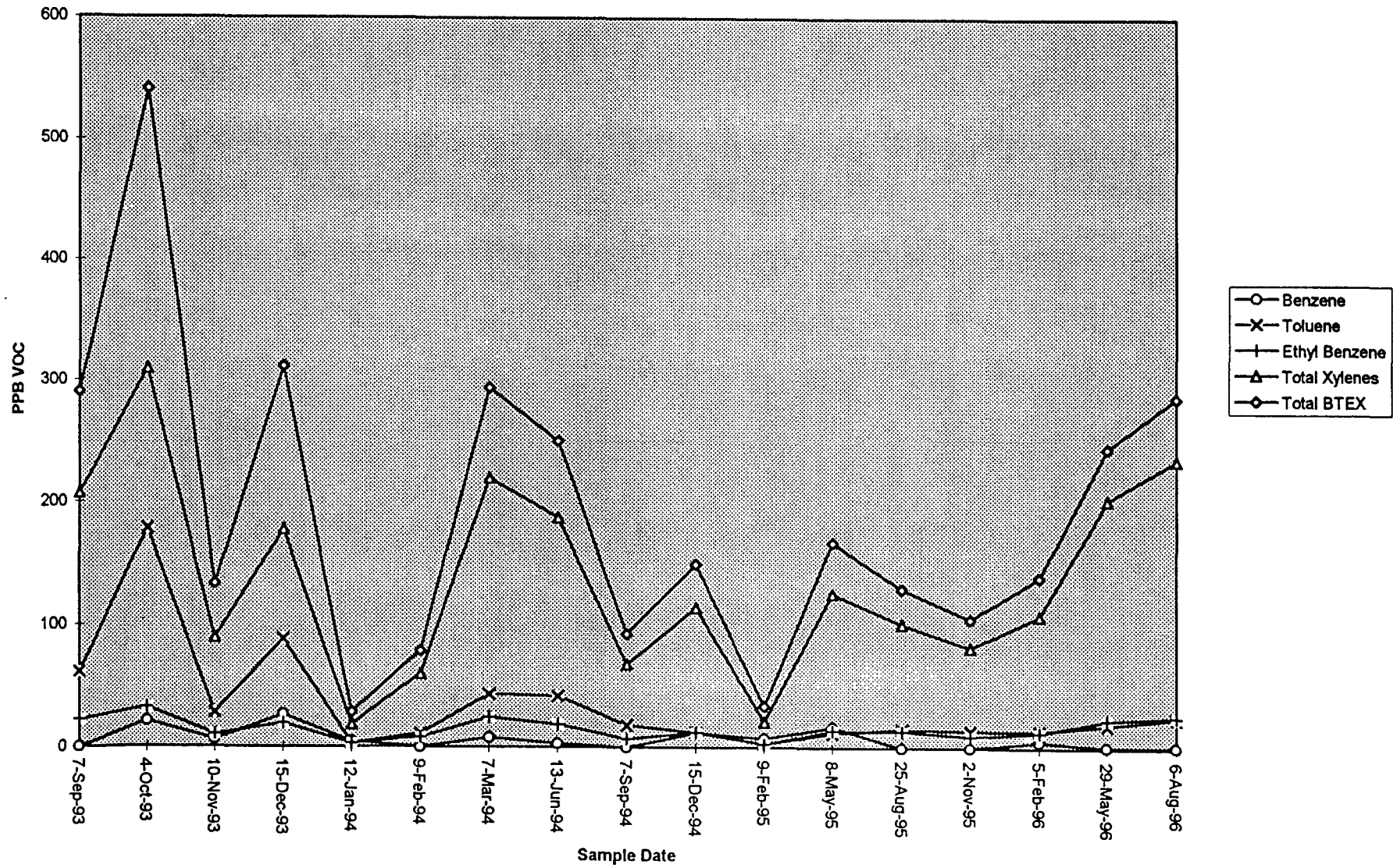
WHITE-Testing Laboratory YELLOW-EPNG Lab PINK-Field Sampler



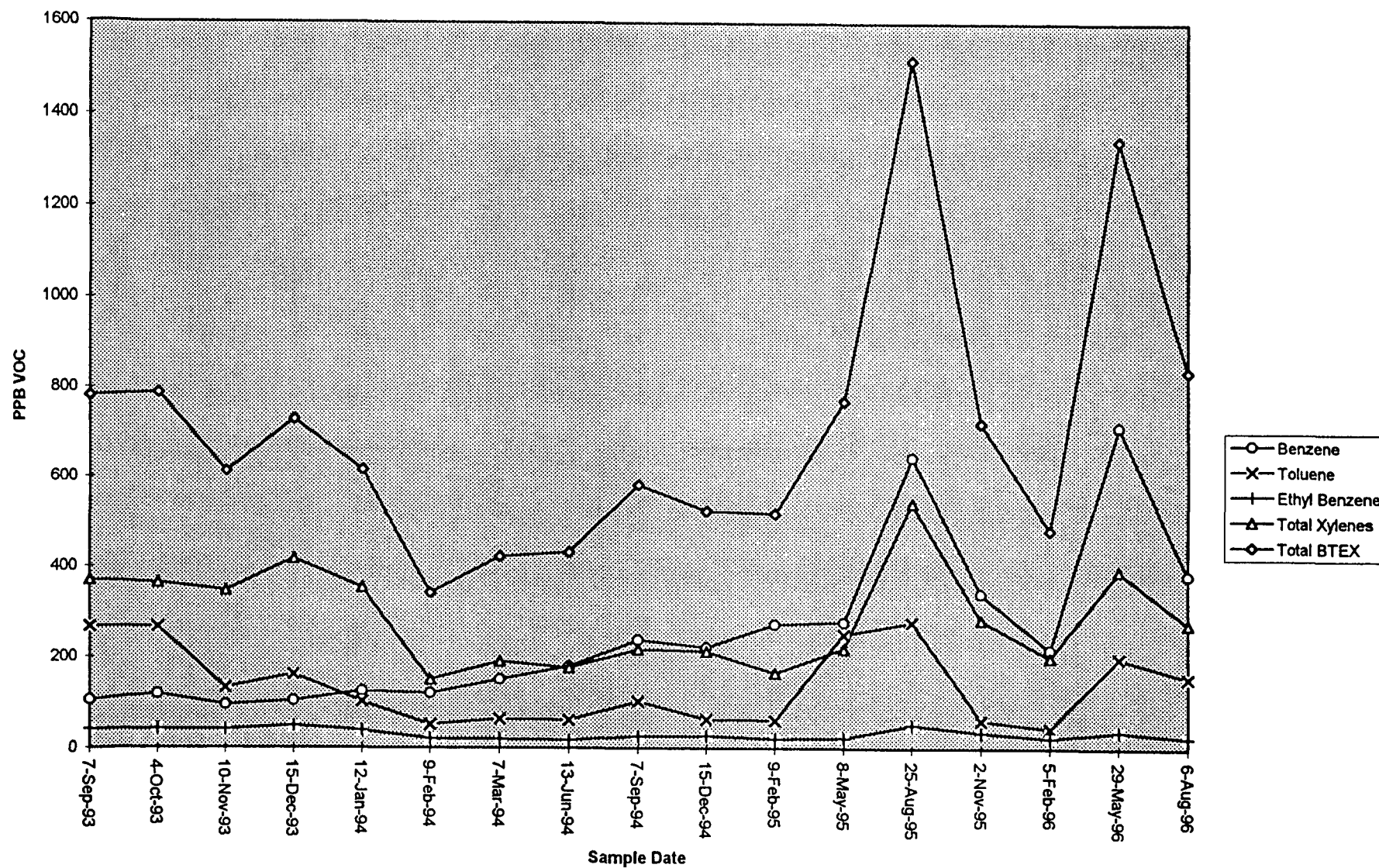
CHAIN OF CUSTODY RECORD

800 IVAN (800) Form 71-55 A

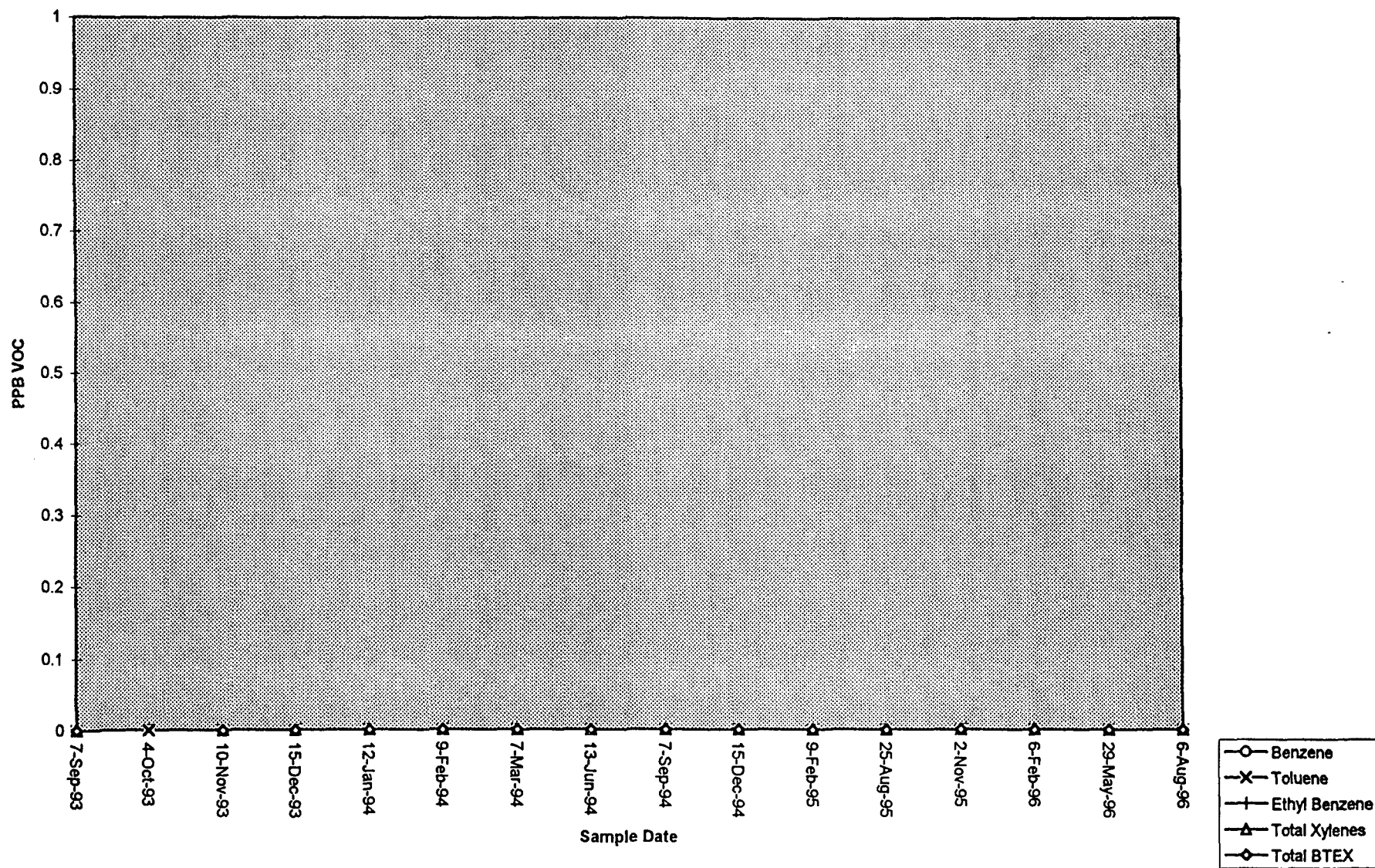
Jaquez Monitor Well R-3



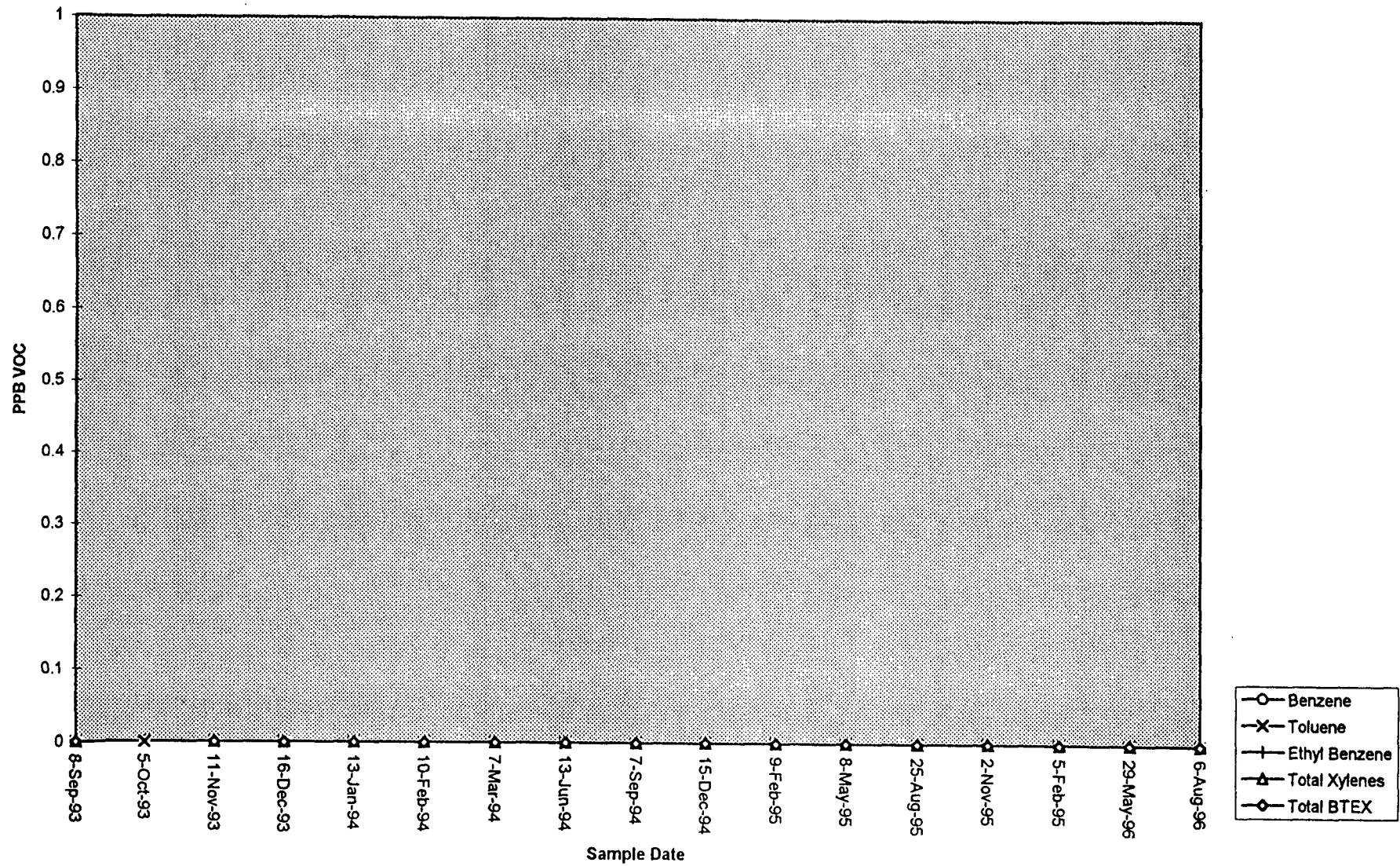
Jaquez Monitor Well R-4



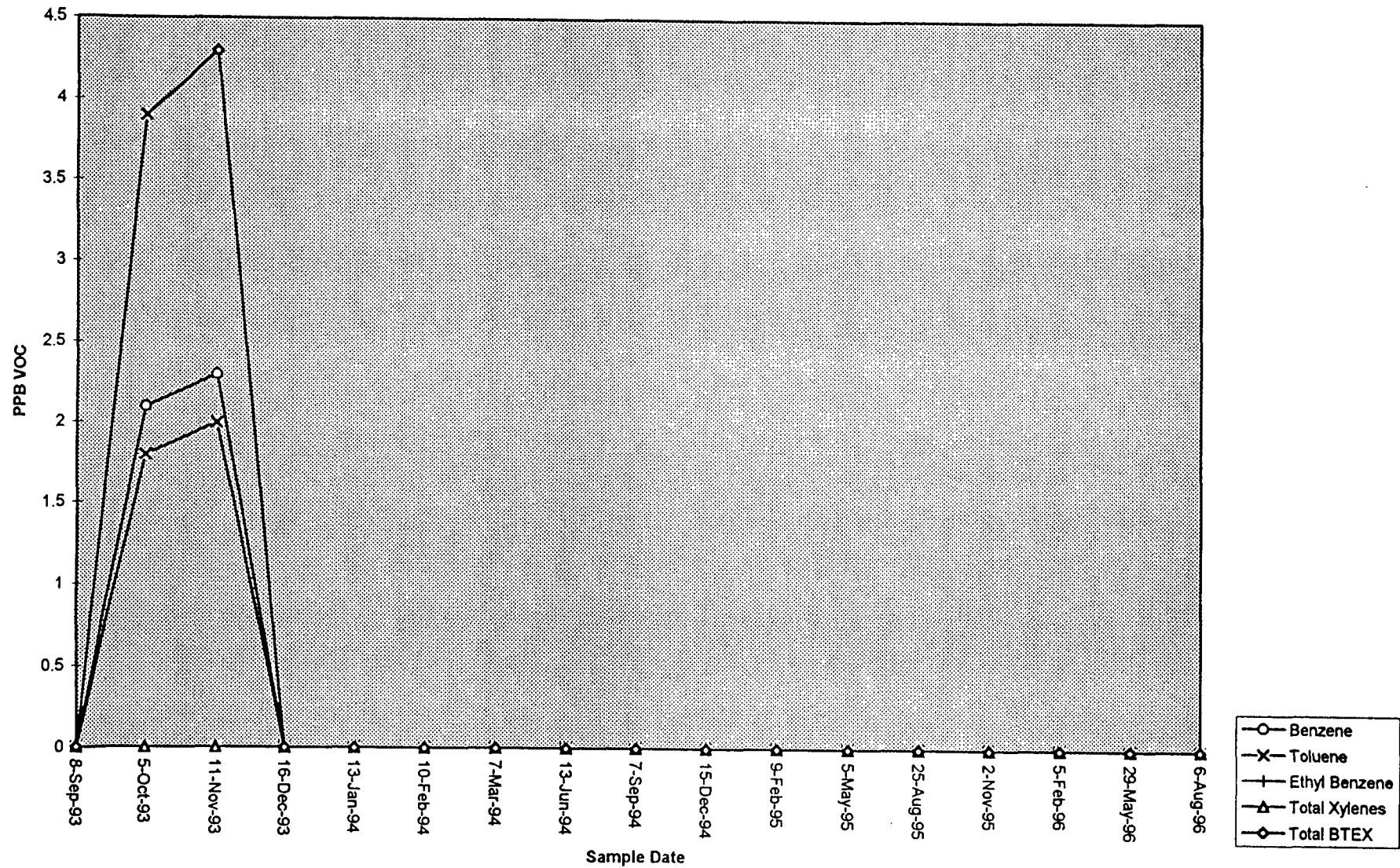
Jaquez Monitor Well R-5



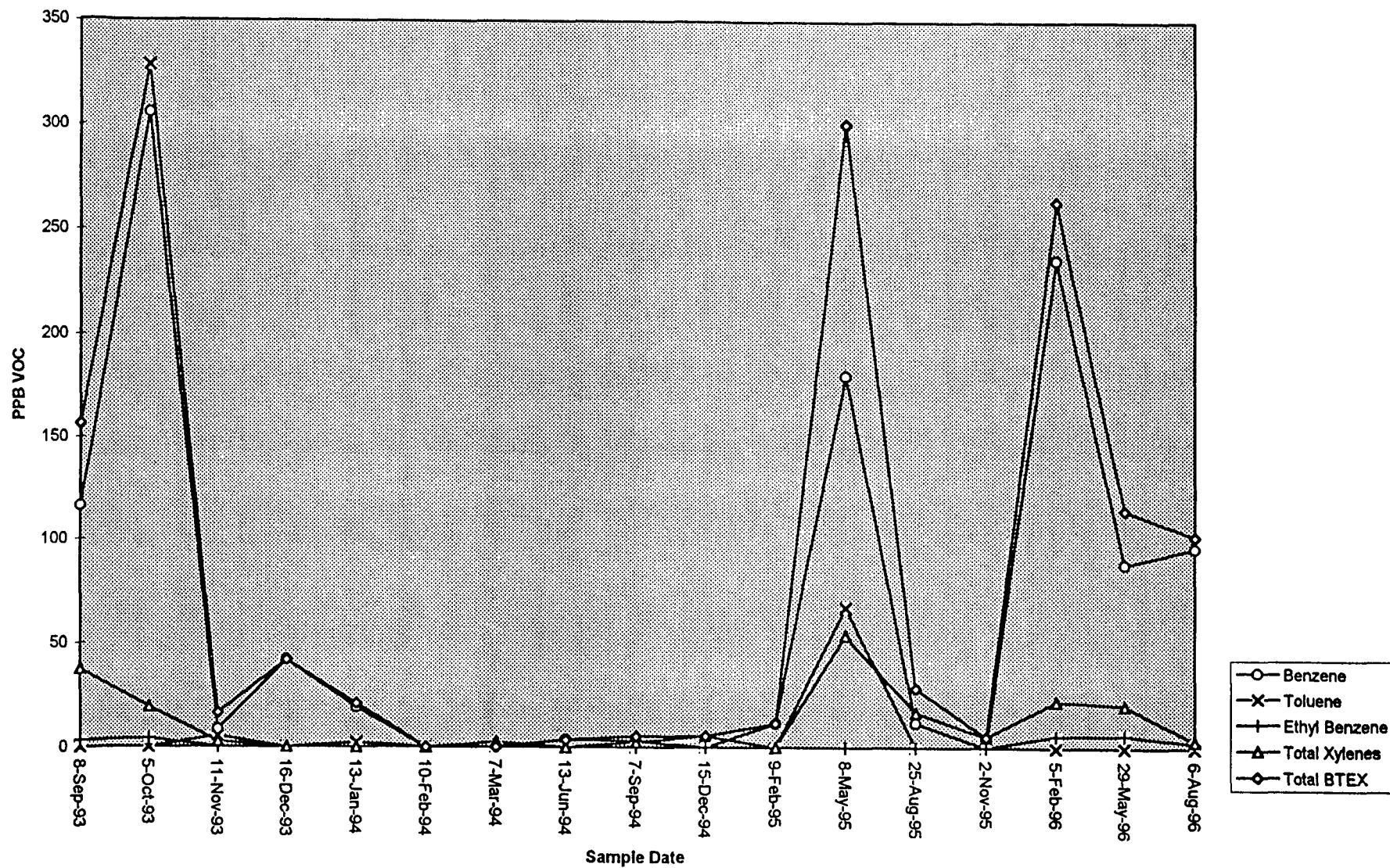
Jaquez Monitor Well M-1



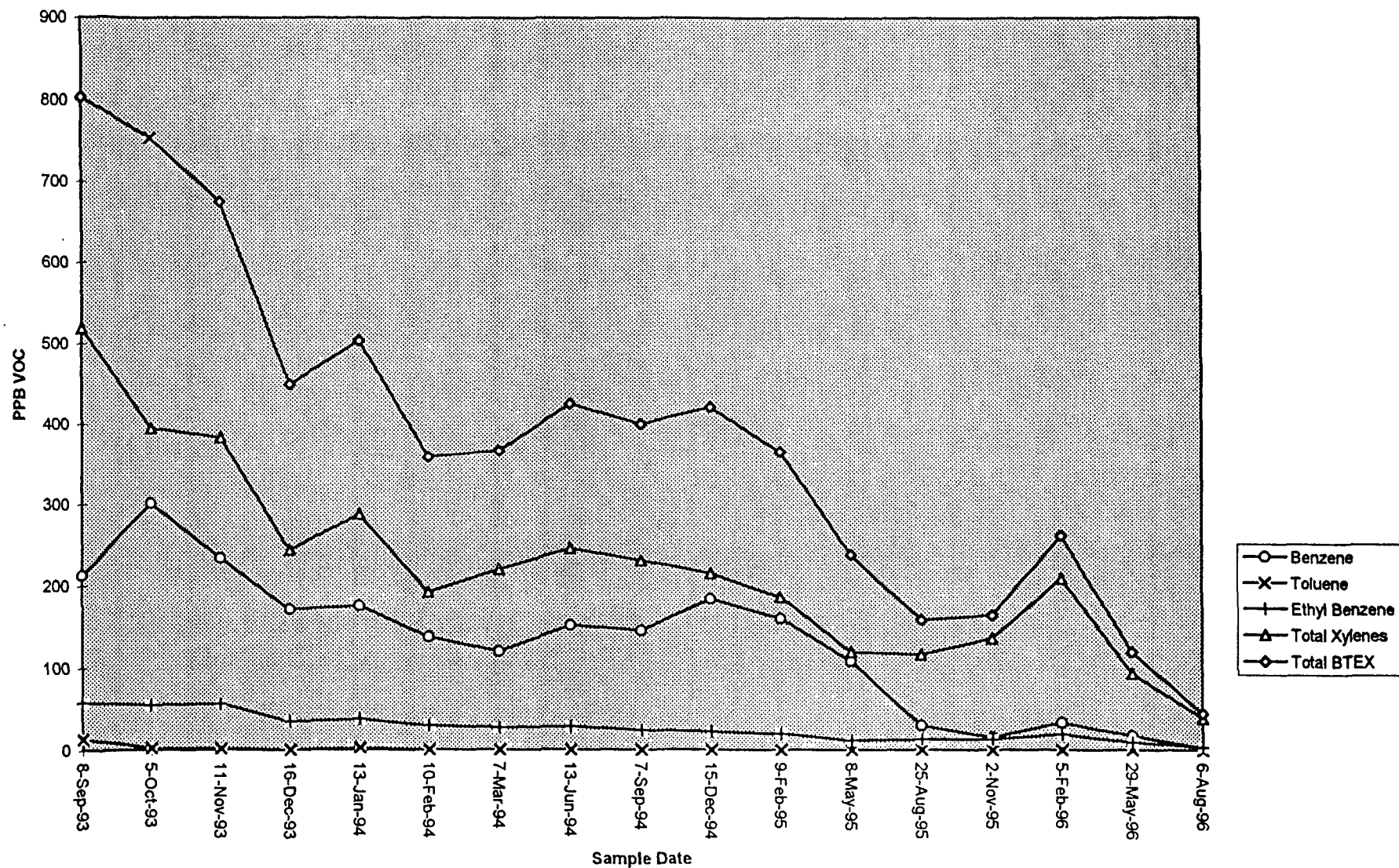
Jaquez Monitor Well M-2



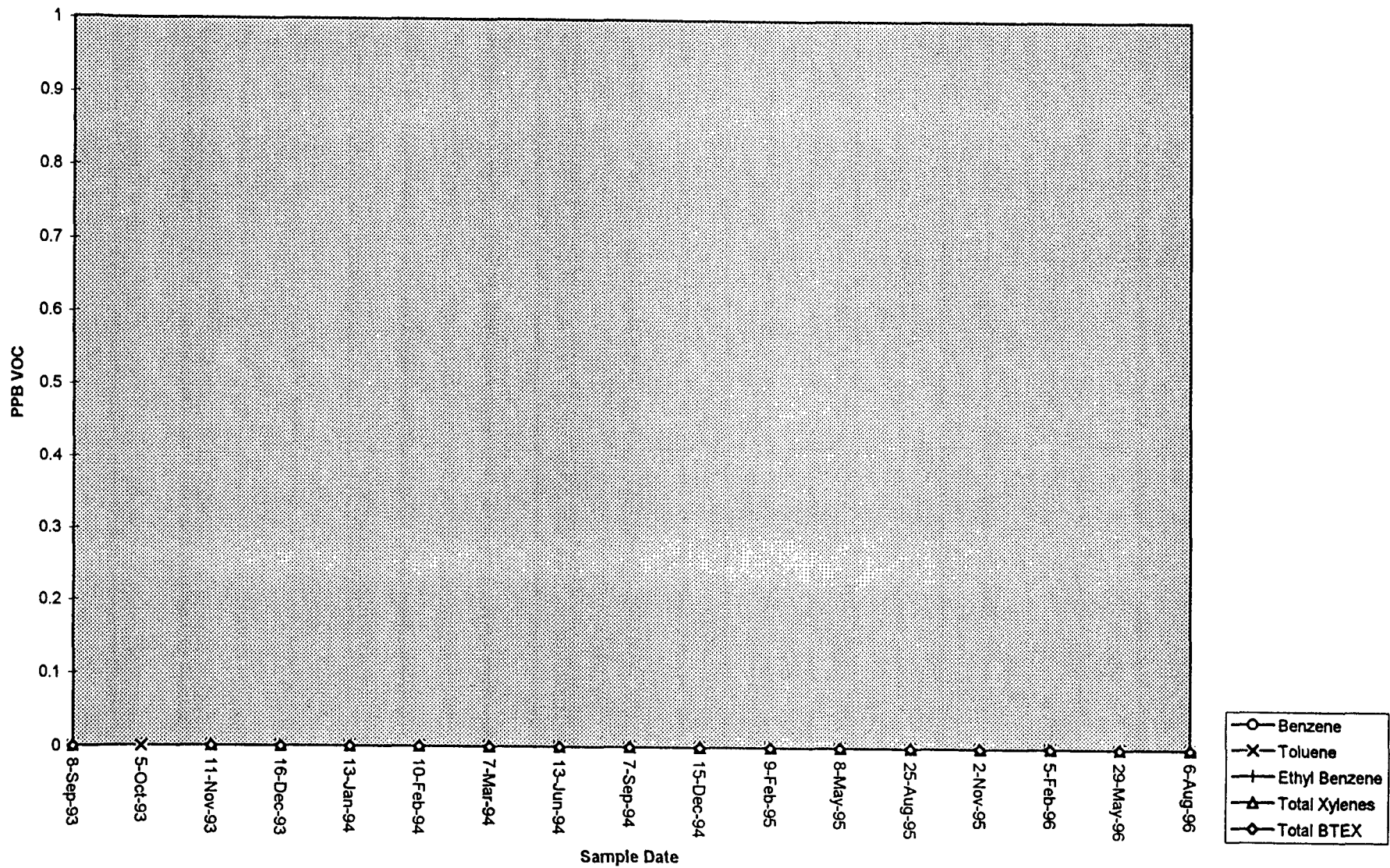
Jaquez Monitor Well M-3



Jaquez Monitor Well M-4



Jaquez Monitor Well M-5





EL PASO FIELD SERVICES

Well Development and Purging Data

Site Name JAEQUEZ

☐ Development
☒ Purging

Well Number R-1

Meter Code _____

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal
☐ Stabilization of Indicator Parameters
☐ Other _____

Methods of Development

- Pump Bailer
☐ Centrifugal ☒ Bottom Valve
☐ Submersible ☐ Double Check Valve
☐ Peristaltic ☐ Stainless-steel Kemmerer
☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 22.1
Initial Depth to Water (feet) 13.41
Height of Water Column in Well (feet) 8.69
Diameter (inches): Well 4 Gravel Pack _____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		<u>5.7</u>	<u>17.2</u>
Gravel Pack			
Drilling Fluids			
Total			

Instruments

- ☒ pH Meter
☐ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☒ Other DO CHEMETS KIT

Water Disposal

ON SITE BARRELS

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
8-6-96	0930										16.4	7.45	620		
8-6-96	0936						5.0	5.0			14.8	7.32	689		
8-6-96	0942						5.0	10.0			14.8	7.40	498		
8-6-96	0950						5.0	15.0			15.2	7.38	457		
8-6-96	0956						5.0	20.0			15.6	7.38	463	1.5	

Comments STRONG HYDROCARBON SMELL.

Developer's Signature Tennis Bird Date 8-6-96 Reviewer [Signature] Date 8/14/96

EPFS

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	960684
SITE NAME:	Jacquez
SAMPLE SITE:	Monitor Well R-1
METER CODE:	n/a
SAMPLE DATE:	08/06/96
SAMPLE TIME (Hrs):	1002
SAMPLED BY:	D. Bird
DATE OF BTEX ANALYSIS:	08/09/96
SAMPLE TYPE:	Water

REMARKS:

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER	WQCC LIMIT PPB
BENZENE	2970	D (x25)	10
TOLUENE	3080	D (x25)	740
ETHYL BENZENE	130	D (x25)	750
TOTAL XYLENES	1200	D (x25)	620
SURROGATE % RECOVERY	96.0	Allowed Range 80 to 120 %	

NOTES:

The "D" Qualifier indicates that the reported result for this analyte is calculated based on the secondary dilution factor shown.

Reported By:

mda

Approved By:

Del. L. L. L.

Date:

8/19/96

EL PASO FIELD SERVICES LABORATORY

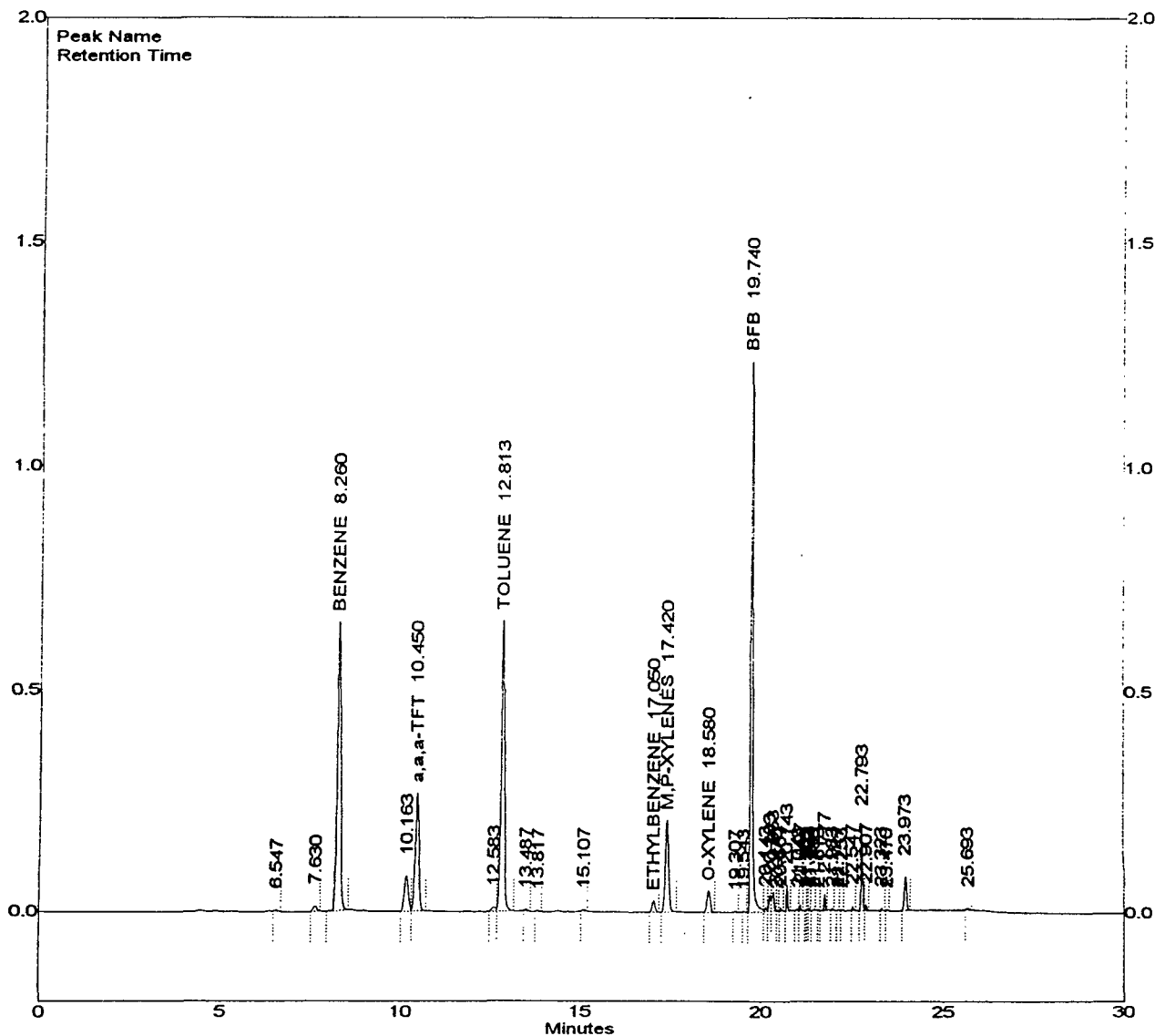
EPA METHOD 8020 - BTEX

File : C:\LABQUEST\CHROM000\080896-0.024
 Method : C:\LABQUEST\METHODS\0-072996.MET
 Sample ID : 960684 X25
 Acquired : Aug 09, 1996 00:31:09
 Printed : Aug 09, 1996 01:01:36
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.260	4415370	2972.1833
a,a,a-TFT	10.450	1863267	2552.2258
TOLUENE	12.813	4242587	3084.6709
ETHYLBENZENE	17.050	157212	129.5183
M,P-XYLENES	17.420	1359160	950.7744
O-XYLENE	18.580	302779	254.1882
BFB	19.740	5165121	2397.6001

C:\LABQUEST\CHROM000\080896-0.024 -- Channel A





EL PASO FIELD SERVICES

Well Development and Purging Data

☐ Development
☒ Purging

Well Number R-2

Site Name JAEUEZ

Meter Code _____

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal
☐ Stabilization of Indicator Parameters
☐ Other _____

Methods of Development

- Pump Bailer
☐ Centrifugal ☒ Bottom Valve
☐ Submersible ☐ Double Check Valve
☐ Peristaltic ☐ Stainless-steel Kemmerer

☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 22.1
Initial Depth to Water (feet) 12.26
Height of Water Column in Well (feet) 9.84
Diameter (inches): Well 4 Gravel Pack _____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		<u>6.5</u>	<u>19.5</u>
Gravel Pack			
Drilling Fluids			
Total			

Instruments

- ☒ pH Meter
☐ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☒ Other D.O. CHEMETS KIT

Water Disposal

ON SITE BARRELS

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
8-6-96	1018										19.0	7.55	356		
8-6-96	1023						5.0	5.0			17.7	7.05	442		
8-6-96	1030						5.0	10.0			17.0	7.05	437		
8-6-96	1038						5.0	15.0			17.5	7.03	437		
8-6-96	1055						5.0	20.0			17.5	7.03	361	1.5	

Comments 0.06' OF FREE FLOATING HYDROCARBON. STRONG HYDROCARBON SMELL.

Developer's Signature Lennie Bird Date 8-6-96 Reviewer JJ Date 8/14/96

EPFS

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	960685
SITE NAME:	Jacquez
SAMPLE SITE:	Monitor Well R-2
METER CODE:	n/a
SAMPLE DATE:	08/06/96
SAMPLE TIME (Hrs):	1102
SAMPLED BY:	D. Bird
DATE OF BTEX ANALYSIS:	08/09/96
SAMPLE TYPE:	Water

REMARKS:

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER	WQCC LIMIT PPB
BENZENE	2610	D (x50)	10
TOLUENE	3960	D (x50)	740
ETHYL BENZENE	165	D (x50)	750
TOTAL XYLENES	1540	D (x50)	620
SURROGATE % RECOVERY	93.6	Allowed Range 80 to 120 %	

NOTES:

The "D" Qualifier indicates that the reported result for this analyte is calculated based on the secondary dilution factor shown.

Smile

Approved By:

D. Bird

Date: 8/14/96

EL PASO FIELD SERVICES LABORATORY

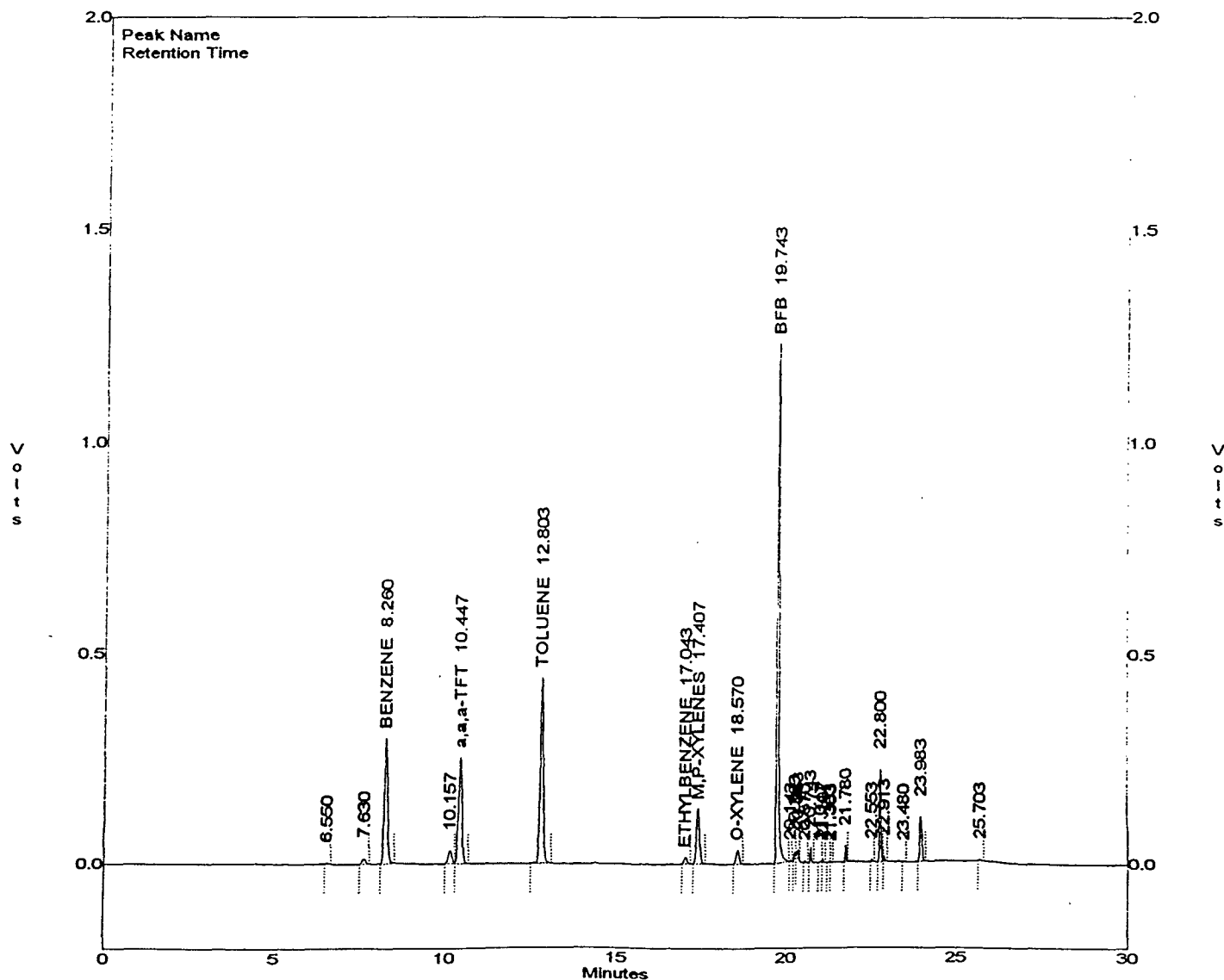
EPA METHOD 8020 - BTEX

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 Method : C:\LABQUEST\METHODS\0-072996.MET
 Sample ID : 960685 X50
 Acquired : Aug 09, 1996 01:52:03
 Printed : Aug 09, 1996 02:22:27
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.260	1953089	2605.6274
a,a,a-TFT	10.447	1769869	4848.5850
TOLUENE	12.803	2773547	3958.6799
ETHYLBENZENE	17.043	100105	165.3052
M,P-XYLENES	17.407	850668	1196.2957
O-XYLENE	18.570	202994	344.5855
BFB	19.743	5045784	4684.4106

C:\LABQUEST\CHROM000\080896-0.026 - Channel A





EL PASO FIELD SERVICES

Well Development and Purging Data

Site Name JAUQUEZ

☐ Development
☒ Purging

Well Number R-3

Meter Code _____

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal
☐ Stabilization of Indicator Parameters
☐ Other _____

Methods of Development

- Pump Bailer
☐ Centrifugal ☒ Bottom Valve
☐ Submersible ☐ Double Check Valve
☐ Peristaltic ☐ Stainless-steel Kemmerer
☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 23.1
Initial Depth to Water (feet) 23.1
Height of Water Column in Well (feet) 8.99
Diameter (inches): Well 4 Gravel Pack _____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		<u>5.9</u>	<u>17.8</u>
Gravel Pack			
Drilling Fluids			
Total			

Instruments

- ☒ pH Meter
☐ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☒ Other P.O. CHEMISTS KIT

Water Disposal

ON SITE BARRELS

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
8-6-96	1112										19.5	6.75	604		
8-6-96	1119						5.0	5.0			17.4	6.75	662		
8-6-96	1125						5.0	10.0			16.5	6.75	549		
8-6-96	1133						5.0	15.0			16.5	6.83	448		
8-6-96	1140						5.0	20.0			16.3	6.76	343	2.0	

Comments _____

Developer's Signature

Dennis Bird

Date

8-6-96

Reviewer

JP

Date

8/14/96

EPFS

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	960686
SITE NAME:	Jacquez
SAMPLE SITE:	Monitor Well R-3
METER CODE:	n/a
SAMPLE DATE:	08/06/96
SAMPLE TIME (Hrs):	1146
SAMPLED BY:	D. Bird
DATE OF BTEX ANALYSIS:	08/08/96
SAMPLE TYPE:	Water

REMARKS:

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER	WQCC LIMIT PPB
BENZENE	1.24		10
TOLUENE	24.7		740
ETHYL BENZENE	25.9		750
TOTAL XYLENES	236		620
SURROGATE % RECOVERY	94.4	Allowed Range 80 to 120 %	

NOTES:

Prepared By: *mdw*

Approved By:

[Signature]

Date: 8/10/96

EL PASO FIELD SERVICES LABORATORY

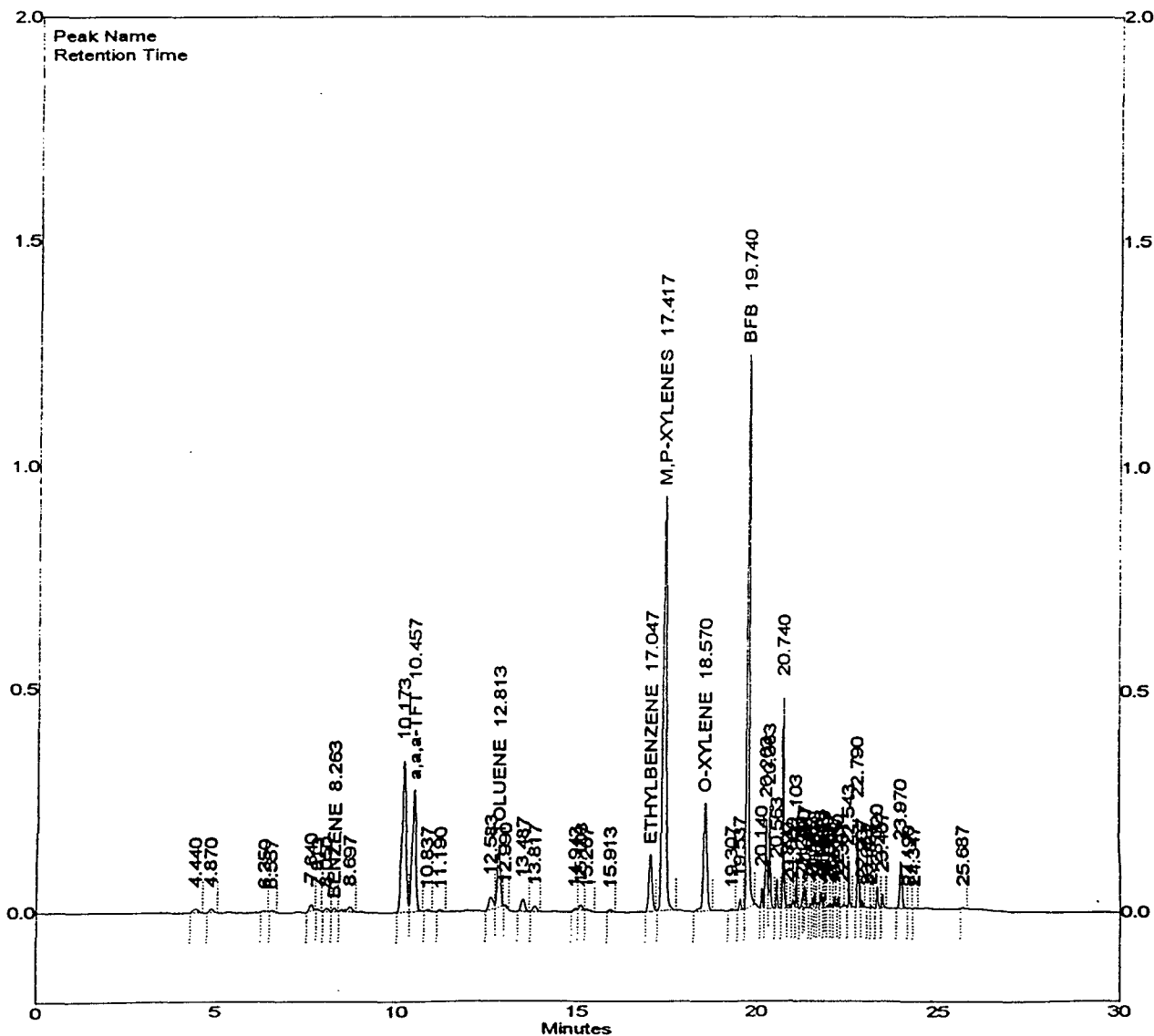
EPA METHOD 8020 - BTEX

File : C:\LABQUEST\CHROM000\080896-0.006
 Method : C:\LABQUEST\METHODS\0-072996.MET
 Sample ID : 960686 X1
 Acquired : Aug 08, 1996 12:12:43
 Printed : Aug 08, 1996 12:43:11
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.263	44564	1.2382
a,a,a-TFT	10.457	1924262	105.4309
TOLUENE	12.813	858772	24.7430
ETHYLBENZENE	17.047	808637	25.8745
M,P-XYLENES	17.417	6306067	184.2489
O-XYLENE	18.570	1595803	52.1663
BFB	19.740	5082885	94.3771

C:\LABQUEST\CHROM000\080896-0.006 -- Channel A





EL PASO FIELD SERVICES

Well Development and Purging Data

- ☐ Development
☒ Purging

Well Number R-4

Site Name JAUQUEZ

Meter Code _____

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal
☐ Stabilization of Indicator Parameters
☐ Other _____

Methods of Development

- Pump Bailor
☐ Centrifugal ☒ Bottom Valve
☐ Submersible ☐ Double Check Valve
☐ Peristaltic ☐ Stainless-steel Kemmerer

☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 22.1
Initial Depth to Water (feet) 12.85
Height of Water Column in Well (feet) 9.25
Diameter (inches): Well 4 Gravel Pack _____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		<u>6.1</u>	<u>18.3</u>
Gravel Pack			
Drilling Fluids			
Total			

Instruments

- ☒ pH Meter
☐ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☒ Other A.O. CHEMETS KIT

Water Disposal

ON SITE BARRELS

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
8-6-96	1205										20.0	6.88	490		
8-6-96	1210						5.0	5.0			18.7	7.00	512		
8-6-96	1217						5.0	10.0			18.3	7.05	552		
8-6-96	1223						5.0	15.0			18.3	7.15	826		
8-6-96	1237						5.8	20.0			18.2	7.31	753	2.0	

Comments _____

Developer's Signature Dennis Bird

Date 8-6-96 Reviewer J.F.

Date 8/14/96

EPFS

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	960687
SITE NAME:	Jacquez
SAMPLE SITE:	Monitor Well R-4
METER CODE:	n/a
SAMPLE DATE:	08/06/96
SAMPLE TIME (Hrs):	1242
SAMPLED BY:	D. Bird
DATE OF BTEX ANALYSIS:	08/08/96
SAMPLE TYPE:	Water

REMARKS:

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER	WQCC LIMIT PPB
BENZENE	384	D (x2)	10
TOLUENE	156	D (x2)	740
ETHYL BENZENE	24.0	D (x2)	750
TOTAL XYLENES	275	D (x2)	620
SURROGATE % RECOVERY	95.5	Allowed Range 80 to 120 %	

NOTES:

The "D" Qualifier indicates that the reported result for this analyte is calculated based on the secondary detection factor shown.

Reported By:

mda

Approved By:

John L. L...

Date:

8/19/96

EL PASO FIELD SERVICES LABORATORY

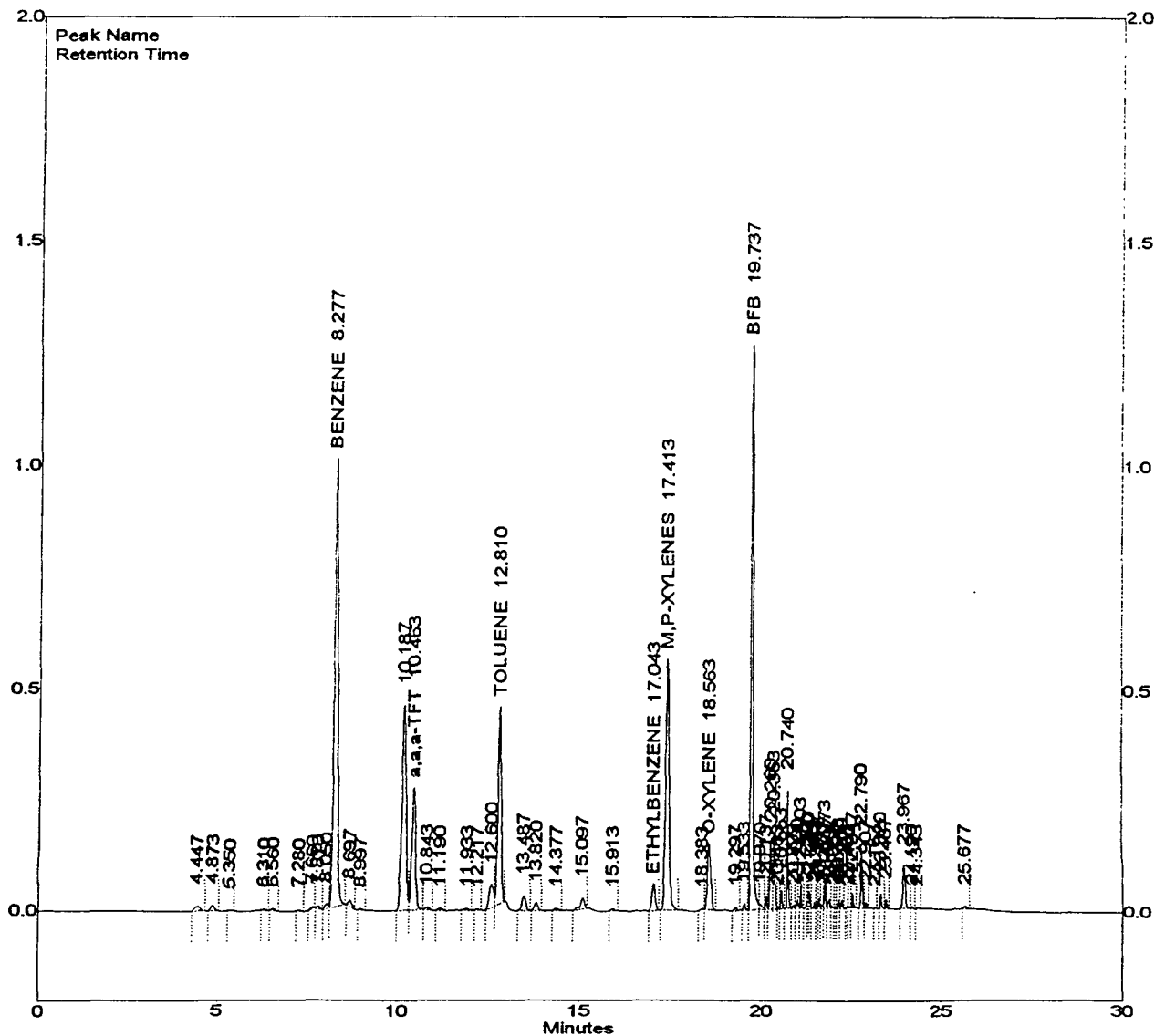
EPA METHOD 8020 - BTEX

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 Method : C:\LABQUEST\METHODS\0-072996.MET
 Sample ID : 960687 X2
 Acquired : Aug 08, 1996 14:58:49
 Printed : Aug 08, 1996 15:29:17
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.277	6902758	384.0547
a,a,a-TFT	10.463	1953315	214.0455
TOLUENE	12.810	2733228	156.0425
ETHYLBENZENE	17.043	371333	23.9752
M,P-XYLENES	17.413	3753410	212.9249
O-XYLENE	18.563	938547	61.8633
BFB	19.737	5152807	191.3507

C:\LABQUEST\CHROM000\080896-0.010 - Channel A



EPFS

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	960688
SITE NAME:	Jacquez
SAMPLE SITE:	Monitor Well R-4
METER CODE:	n/a
SAMPLE DATE:	08/06/96
SAMPLE TIME (Hrs):	1242
SAMPLED BY:	D. Bird
DATE OF BTEX ANALYSIS:	08/08/96
SAMPLE TYPE:	Water

REMARKS: Field Duplicate

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER	WQCC LIMIT PPB
BENZENE	686	D1 (x2)	10
TOLUENE	237	D (x2)	740
ETHYL BENZENE	38.7	D (x2)	750
TOTAL XYLENES	405	D (x2)	620
SURROGATE % RECOVERY	94.5	Allowed Range 80 to 120 %	

NOTES:

"D1" Qualifier indicates that the analyte result exceeded the calibration curve limit.

The "D" Qualifier indicates that the reported result for this analyte is calculated based on the secondary calibration factor shown.

Analyst: *mdc*

Approved By: *Ind. J. Bird*

Date: 8/9/96

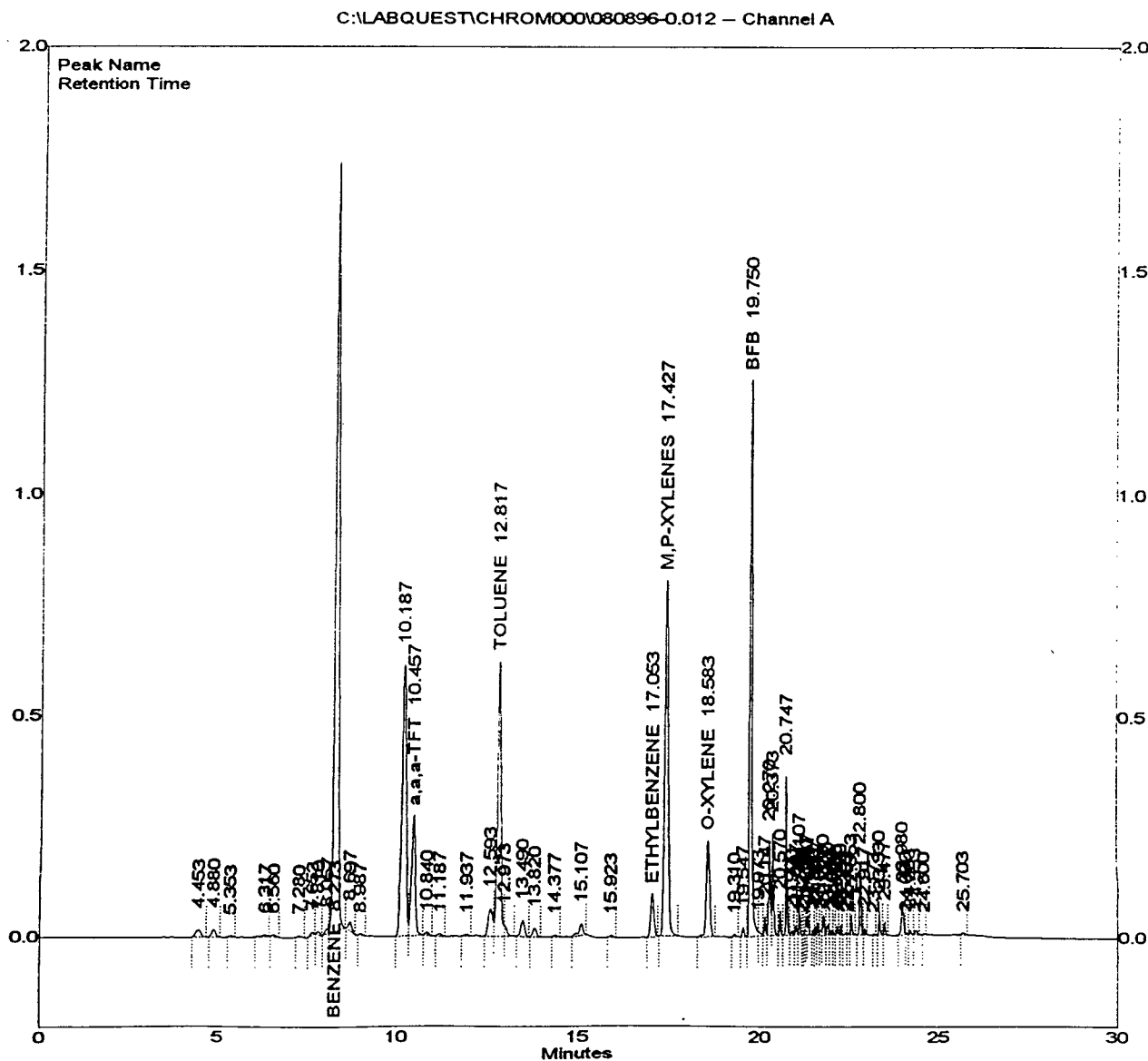
EL PASO FIELD SERVICES LABORATORY
EPA METHOD 8020 - BTEX

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Method    : C:\LABQUEST\METHODS\0-072996.MET
Sample ID : 960688 X2
Acquired  : Aug 08, 1996 16:21:04
Printed   : Aug 08, 1996 16:51:33
User      : MARLON
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Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.273	11965964	685.7313
a,a,a-TFT	10.457	1957431	214.4966
TOLUENE	12.817	4087966	237.0051
ETHYLBENZENE	17.053	603215	38.7181
M,P-XYLENES	17.427	5390024	312.6692
O-XYLENE	18.583	1417857	92.7739
BFB	19.750	5078465	188.5900

- over calibration





EL PASO FIELD SERVICES

Well Development and Purging Data

☐ Development
☒ Purging

Well Number R-5

Site Name JARUEZ

Meter Code _____

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal
☐ Stabilization of Indicator Parameters
☐ Other _____

Methods of Development

- Pump Bailer
☐ Centrifugal ☒ Bottom Valve
☐ Submersible ☐ Double Check Valve
☐ Peristaltic ☐ Stainless-steel Kemmerer

☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 244
Initial Depth to Water (feet) 16.09
Height of Water Column in Well (feet) 231
Diameter (Inches): Well 4 Gravel Pack _____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		<u>5.5</u>	<u>16.5</u>
Gravel Pack			
Drilling Fluids			
Total			

Instruments

- ☒ pH Meter
☐ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☒ Other D.O. CHEMETS KIT

Water Disposal

ON SITE BARRELS

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
8-6-96	1255										20.0	7.50	527		
8-6-96	1302						5.0	5.0			19.6	7.25	585		
8-6-96	1210						5.0	10.0			19.0	7.10	1010		
8-6-96	1340						2.0	12.0			19.6	7.45	665	3.0	

Comments BAILED DRY @ 10.0 gph.

Developer's Signature Dennie Bird

Date 8-6-96

Reviewer JS

Date 8/14/96

EPFS

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	960689
SITE NAME:	Jacquez
SAMPLE SITE:	Monitor Well R-5
METER CODE:	n/a
SAMPLE DATE:	08/06/96
SAMPLE TIME (Hrs):	1348
SAMPLED BY:	D. Bird
DATE OF BTEX ANALYSIS:	08/08/96
SAMPLE TYPE:	Water

REMARKS:

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER	WQCC LIMIT PPB
BENZENE	<1		10
TOLUENE	<1		740
ETHYL BENZENE	<1		750
TOTAL XYLENES	<3		620
SURROGATE % RECOVERY	96.3	Allowed Range 80 to 120 %	

NOTES:

8/20/96

Approved By

Vol. T. L. Bird

Date 8/20/96

EL PASO FIELD SERVICES LABORATORY

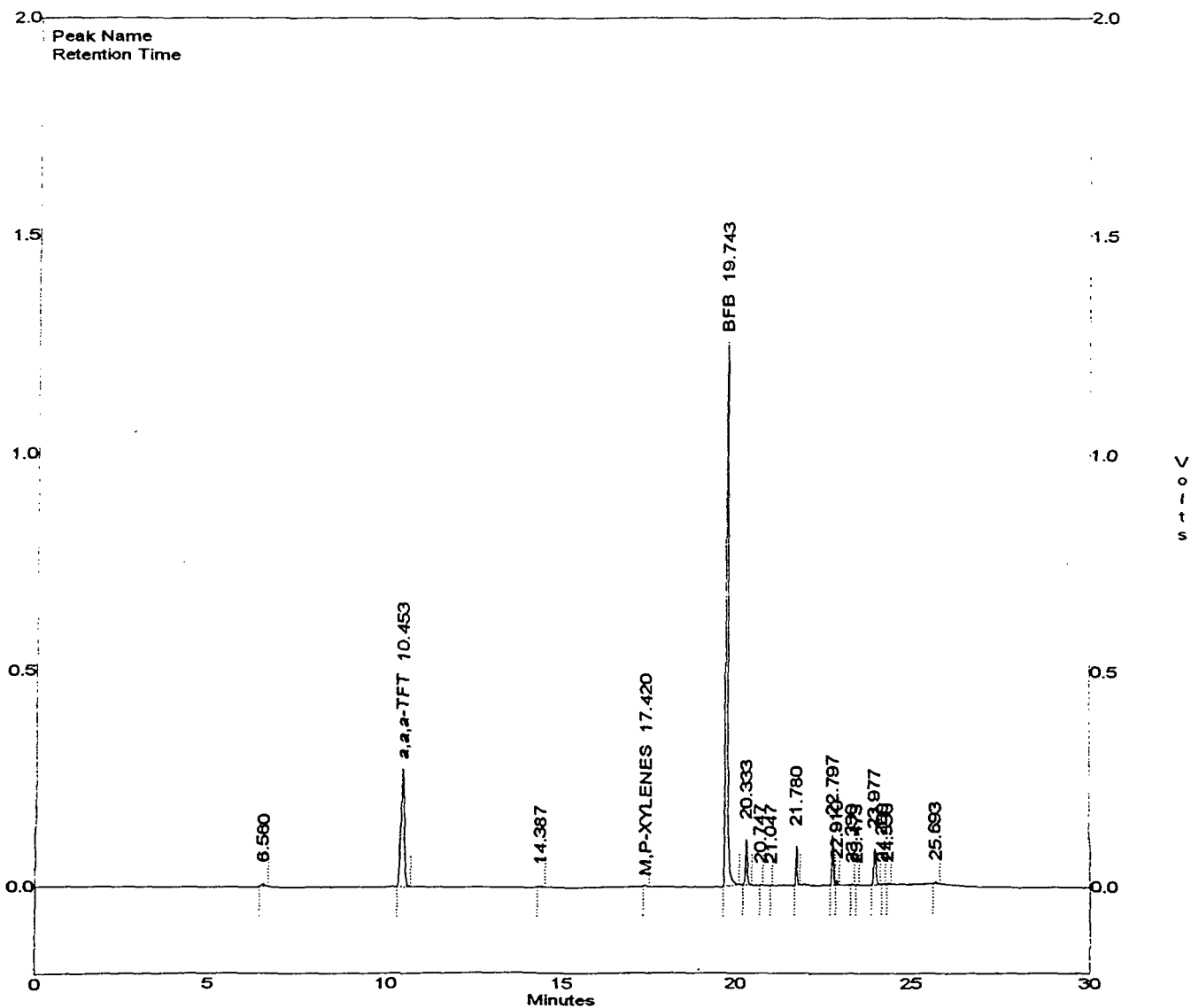
EPA METHOD 8020 - BTEX

File : C:\LABQUEST\CHROM000\080896-0.015
Method : C:\LABQUEST\METHODS\0-072996.MET
Sample ID : 960689 X1
Acquired : Aug 08, 1996 18:23:16
Printed : Aug 08, 1996 18:53:41
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.273	0	0.0000
a,a,a-TFT	10.453	1844037	101.0354
TOLUENE	12.827	0	0.0000
ETHYLBENZENE	17.063	0	0.0000
M,P-XYLENES	17.420	12119	0.3422
O-XYLENE	18.583	0	0.0000
BFB	19.743	5185542	96.2832

C:\LABQUEST\CHROM000\080896-0.015 - Channel A





☐ Development
☒ Purging

Meter Code

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal
☐ Stabilization of Indicator Parameters
☐ Other

Methods of Development

- | | |
|--------------------------------------|---|
| ☐ Pump | ☒ Bailer |
| ☐ Centrifugal | ☐ Bottom Valve |
| ☐ Submersible | ☐ Double Check Valve |
| ☐ Peristaltic | ☐ Stainless-steel Kemmerer |
| ☐ Other | |

Water Volume Calculation

Initial Depth of Well (feet) 15.3
Initial Depth to Water (feet) 4.43
Height of Water Column in Well (feet) 10.87

Diameter (inches): Well _____ Gravel Pack _____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		7.2	21.6
Gravel Pack			
Drilling Fluids			
Total			

Instruments

- ☒ pH Meter
☒ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☒ Other: D.O. CHEMBITS KIT

Water Disposal

ON SITE BARRELS

Water Removal Data

[illegible]

Comments BAILED DRY AT 8.0 GALLONS.

Developer's Signature Dennis Bird

Date 2-6-96

Reviewer JS

Date 8/14/96

EPFS

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:

960690

SITE NAME:

Jacquez

SAMPLE SITE:

Monitor Well M-1

METER CODE:

n/a

SAMPLE DATE:

08/06/96

SAMPLE TIME (Hrs):

1443

SAMPLED BY:

D. Bird

DATE OF BTEX ANALYSIS:

08/08/96

SAMPLE TYPE:

Water

REMARKS:

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER	WQCC LIMIT PPB
BENZENE	<1		10
TOLUENE	<1		740
ETHYL BENZENE	<1		750
TOTAL XYLENES	<3		620
SURROGATE % RECOVERY	96.0	Allowed Range 80 to 120 %	

NOTES:

W.D.

W. J. P. A.

08/08/96

EL PASO FIELD SERVICES LABORATORY

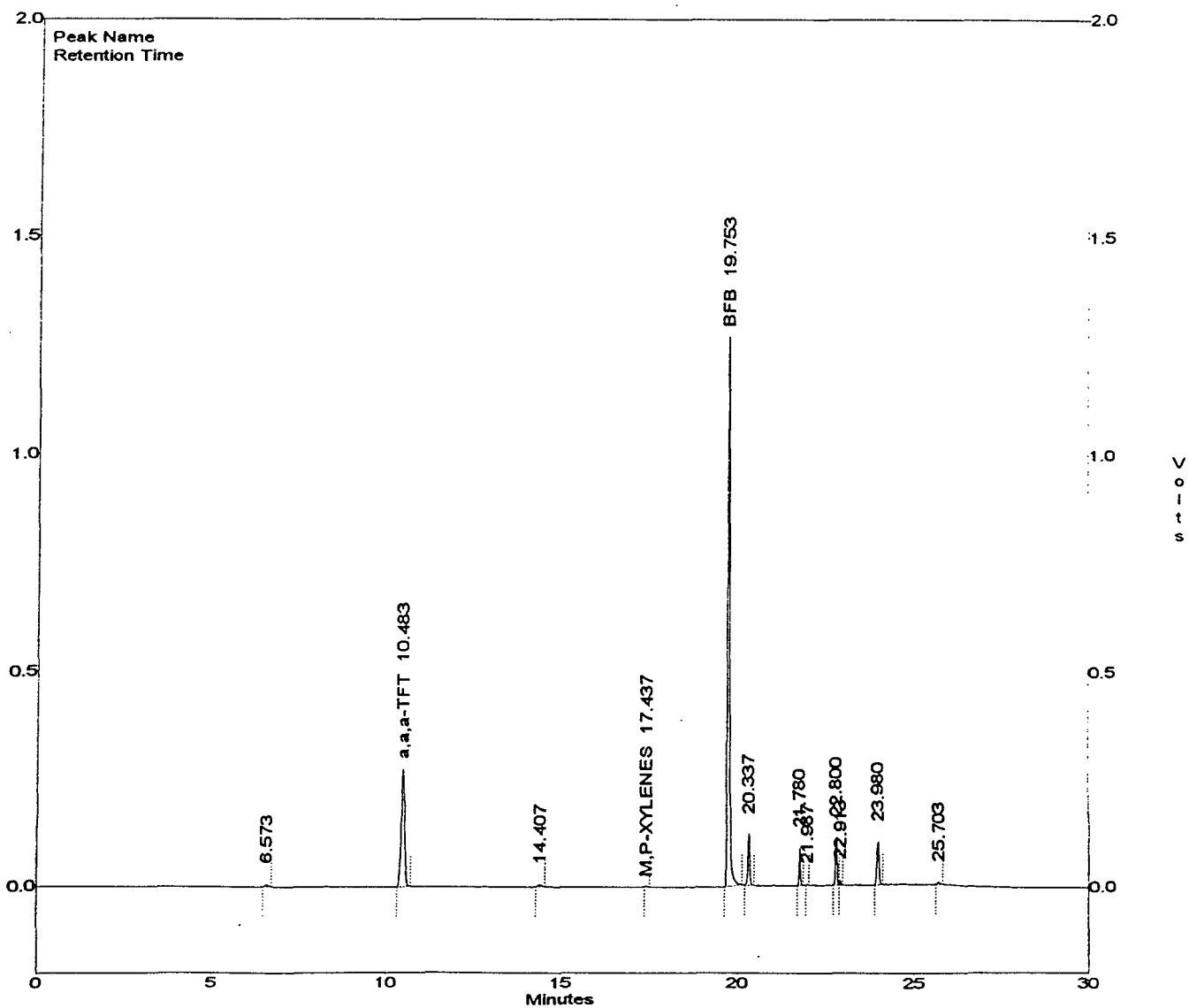
EPA METHOD 8020 - BTEX

File : C:\LABQUEST\CHROM000\080896-0.016
 Method : C:\LABQUEST\METHODS\0-072996.MET
 Sample ID : 960690 X1
 Acquired : Aug 08, 1996 19:03:52
 Printed : Aug 08, 1996 19:34:18
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.273	0	0.0000
a,a,a-TFT	10.483	1825514	100.0205
TOLUENE	12.827	0	0.0000
ETHYLBENZENE	17.063	0	0.0000
M,P-XYLENES	17.437	6996	0.1975
O-XYLENE	18.583	0	0.0000
BFB	19.753	5171146	96.0159

C:\LABQUEST\CHROM000\080896-0.016 -- Channel A





EL PASO FIELD SERVICES

Well Development and Purging Data

☐ Development
☒ Purging

Well Number M-2

Site Name JAGUER

Meter Code _____

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Remove!
☐ Stabilization of Indicator Parameters
☐ Other _____

Methods of Development

- Pump Bailer
☐ Centrifugal ☒ Bottom Valve
☐ Submersible ☐ Double Check Valve
☐ Peristaltic ☐ Stainless-steel Kemmerer

☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 15.1
Initial Depth to Water (feet) 3.57
Height of Water Column in Well (feet) 11.53
Diameter (inches): Well 4 Gravel Pack _____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		<u>7.6</u>	<u>22.9</u>
Gravel Pack			
Drilling Fluids			
Total			

Instruments

- ☒ pH Meter
☐ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☒ Other D.O. CHEMETS KIT

Water Disposal

ON SITE BARRELS

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
8-6-96	1501										21.3	6.83	489		
8-6-96	1506						5.0	5.0			19.3	6.70	527		
8-6-96	1512						5.0	10.0			18.9	6.81	541		
8-6-96	1519						5.0	15.0			18.7	6.71	541		
8-6-96	1525						5.0	20.0			18.3	6.74	535		
8-6-96	1532						5.0	25.0			18.5	6.82	539	2.5	

Comments _____

Developer's Signature

Dennis Bird

Date

8-6-96

Reviewer

JF

Date

8/14/96

EPFS

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	960691
SITE NAME:	Jacquez
SAMPLE SITE:	Monitor Well M-2
METER CODE:	n/a
SAMPLE DATE:	08/06/96
SAMPLE TIME (Hrs):	1537
SAMPLED BY:	D. Bird
DATE OF BTEX ANALYSIS:	08/08/96
SAMPLE TYPE:	Water

REMARKS:

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER	WQCC LIMIT PPB
BENZENE	<1		10
TOLUENE	<1		740
ETHYL BENZENE	<1		750
TOTAL XYLENES	<3		620
SURROGATE % RECOVERY	96.7	Allowed Range 80 to 120 %	

NOTES:

mdw

Approved By:

D. L. L. L.

Date: 8/19/96

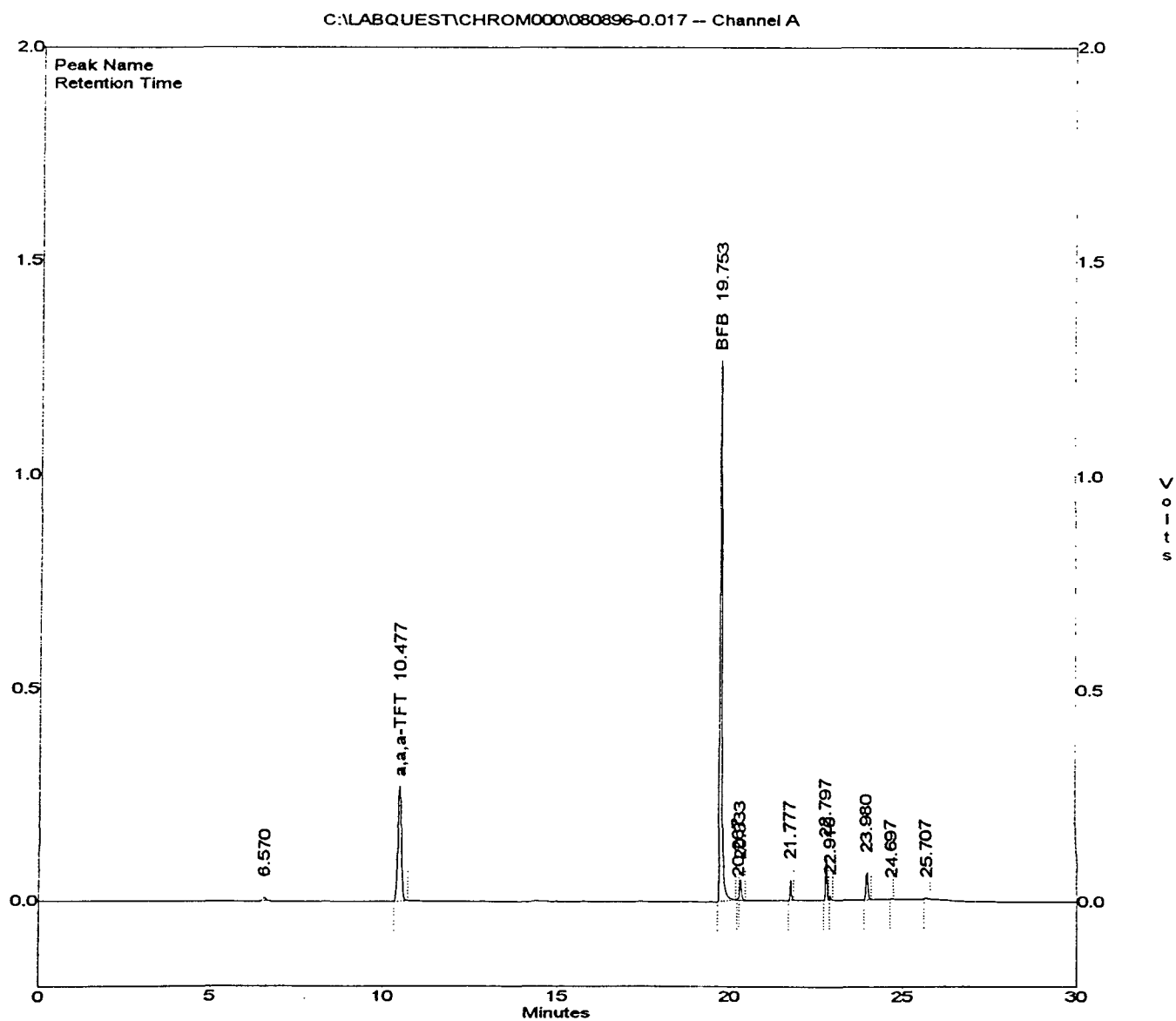
EL PASO FIELD SERVICES LABORATORY

EPA METHOD 8020 - BTEX

File : C:\LABQUEST\CHROM000\080896-0.017
Method : C:\LABQUEST\METHODS\0-072996.MET
Sample ID : 960691 X1
Acquired : Aug 08, 1996 19:44:58
Printed : Aug 08, 1996 20:15:21
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.273	0	0.0000
a,a,a-TFT	10.477	1841069	100.8728
TOLUENE	12.827	0	0.0000
ETHYLBENZENE	17.063	0	0.0000
M,P-XYLENES	17.433	0	0.0000
O-XYLENE	18.583	0	0.0000
BFB	19.753	5209291	96.7241





EL PASO FIELD SERVICES

Well Development and Purging Data

- ☐ Development
☒ Purging

Well Number M-3

Site Name JAUQUEZ

Meter Code _____

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal
☐ Stabilization of Indicator Parameters
☐ Other _____

Methods of Development

- Pump Bailer
☐ Centrifugal ☒ Bottom Valve
☐ Submersible ☐ Double Check Valve
☐ Peristaltic ☐ Stainless-steel Kemmerer
☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 15.2
Initial Depth to Water (feet) 4.67
Height of Water Column in Well (feet) 10.53
Diameter (inches): Well 4 Gravel Pack _____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		<u>7.0</u>	<u>20.9</u>
Gravel Pack			
Drilling Fluids			
Total			

Instruments

- ☒ pH Meter
☐ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☒ Other D.O. CHEMETS KIT

Water Disposal

ON SITE BARRELS

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
8-6-96	1605										20.0	7.17	532		
8-6-96	1610						5.0	5.0			18.8	6.77	513		
8-6-96	1617						5.0	10.0			17.8	6.85	453		
8-6-96	1628						5.0	15.0			17.6	6.73	410		
8-6-96	1633						5.0	20.0			17.5	6.89	405		
8-6-96	1643						5.0	25.0			17.5	6.92	376	2.0	

Comments _____

Developer's Signature Dennis Bird Date 8-6-96 Reviewer D.F. Date 8/14/96

EPFS

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	960692
SITE NAME:	Jacquez
SAMPLE SITE:	Monitor Well M-3
METER CODE:	n/a
SAMPLE DATE:	08/06/96
SAMPLE TIME (Hrs):	1652
SAMPLED BY:	D. Bird
DATE OF BTEX ANALYSIS:	08/08/96
SAMPLE TYPE:	Water

REMARKS:

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER	WQCC LIMIT PPB
BENZENE	96.4		10
TOLUENE	<1		740
ETHYL BENZENE	2.50		750
TOTAL XYLENES	3.27		620
SURROGATE % RECOVERY	93.3	Allowed Range 80 to 120 %	

NOTES:

made

Approved By

Vol. Luedke

Date: 8/19/96

EL PASO FIELD SERVICES LABORATORY

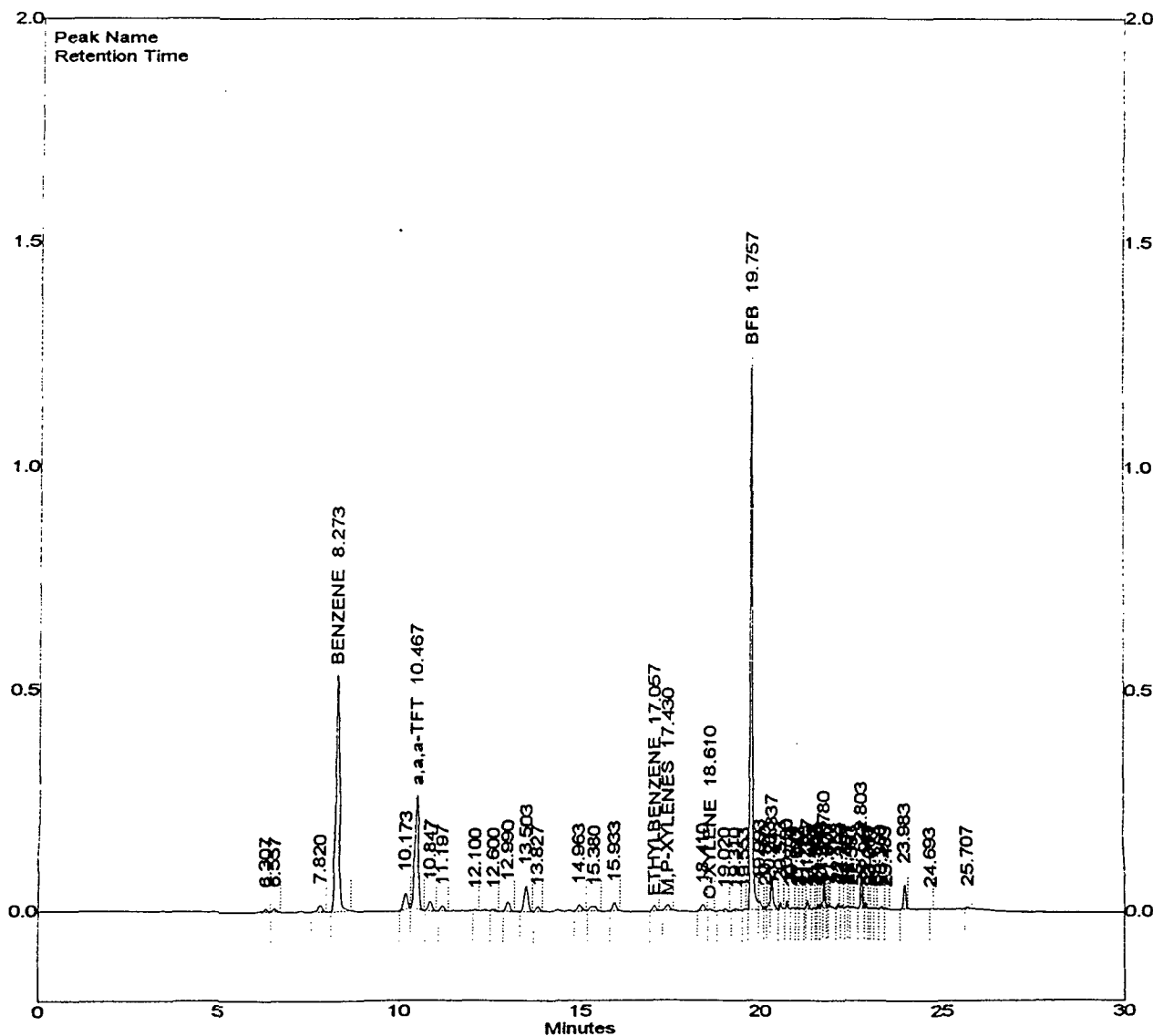
EPA METHOD 8020 - BTEX

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 Method : C:\LABQUEST\METHODS\0-072996.MET
 Sample ID : 960692 X1
 Acquired : Aug 08, 1996 20:26:04
 Printed : Aug 08, 1996 20:56:31
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.273	3626238	96.4114
a,a,a-TFT	10.467	1809535	99.1450
TOLUENE	12.827	0	0.0000
ETHYLBENZENE	17.057	75484	2.4950
M,P-XYLENES	17.430	91967	2.5968
O-XYLENE	18.610	19388	0.6671
BFB	19.757	5026427	93.3288

C:\LABQUEST\CHROM000\080896-0.018 -- Channel A





Well Development and Purging Data

Well Number 11-9
Meter Code _____

☐	Development
☒	Purging

Site Name TAQUEZ

Development Criteria

- ☒
- 3 to 5 Casing Volumes of Water Removal
-
- ☐
- Stabilization of Indicator Parameters
-
- ☐
- Other

Methods of Development

- | Pump | Bailer |
|--------------------------------------|---|
| ☐ Centrifugal | ☒ Bottom Valve |
| ☐ Submersible | ☐ Double Check Valve |
| ☐ Peristaltic | ☐ Stainless-steel Kemmerer |

☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 15.3
Initial Depth to Water (feet) 2.85
Height of Water Column in Well (feet) 17.45

Diameter (inches): Well 4 Gravel Pack

Item	Water Volume In Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		8.7	24.7
Gravel Pack			
Drilling Fluids			
Total			

Instruments

- ☒ pH Meter
☐ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☒ Other 0.0.0

Water Disposal

ON SITE BARRELS

Water Removal Data

[illegible]

Comments	GRADED DRY @ 10.0 GALLONS.
----------	----------------------------

Dennis Brad
Dennis Brad

Date 8-6-96 Reviewer _____

Date 2/4/96

EPFS

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	960693
SITE NAME:	Jacquez
SAMPLE SITE:	Monitor Well M-4
METER CODE:	n/a
SAMPLE DATE:	08/06/96
SAMPLE TIME (Hrs):	1751
SAMPLED BY:	D. Bird
DATE OF BTEX ANALYSIS:	08/08/96
SAMPLE TYPE:	Water

REMARKS:

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER	WQCC LIMIT PPB
BENZENE	2.77		10
TOLUENE	<1		740
ETHYL BENZENE	3.50		750
TOTAL XYLENES	38.5		620
SURROGATE % RECOVERY	91.8	Allowed Range 80 to 120 %	

NOTES:

Reported By:

mda

Approved By:

Det. L. L. L.

Date:

8/19/96

EL PASO FIELD SERVICES LABORATORY

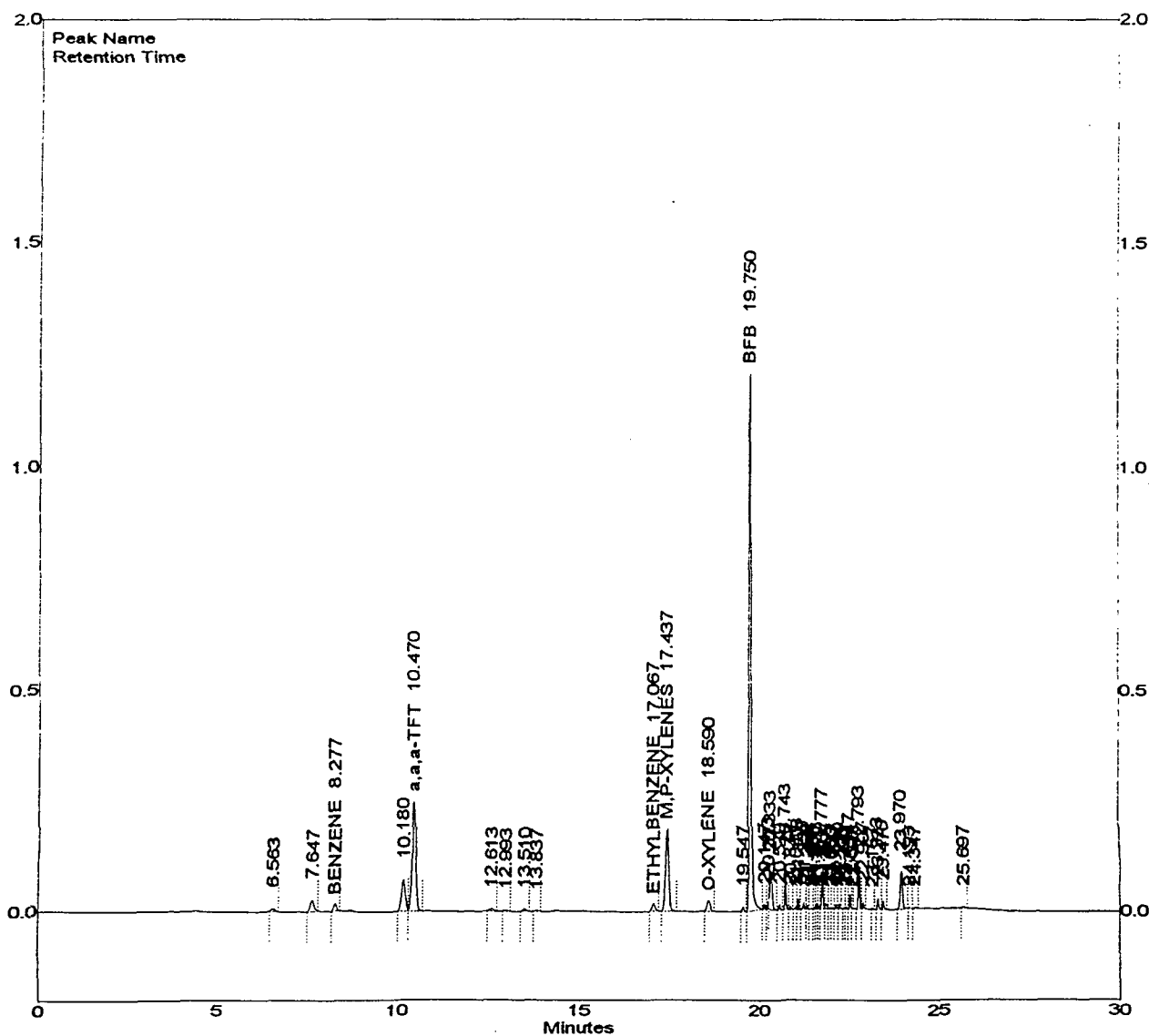
EPA METHOD 8020 - BTEX

File : C:\LABQUEST\CHROM000\080896-0.021
 Method : C:\LABQUEST\METHODS\0-072996.MET
 Sample ID : 960693 X1
 Acquired : Aug 08, 1996 22:28:13
 Printed : Aug 08, 1996 22:58:40
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.277	99241	2.7660
a,a,a-TFT	10.470	1714735	93.9509
TOLUENE	12.827	0	0.0000
ETHYLBENZENE	17.067	105839	3.4950
M,P-XYLENES	17.437	1183471	33.1575
O-XYLENE	18.590	155604	5.3359
BFB	19.750	4943765	91.7940

C:\LABQUEST\CHROM000\080896-0.021 - Channel A





EL PASO FIELD SERVICES

Well Development and Purging Data

- ☐ Development
☒ Purging

Well Number M-5

Site Name JAGUER

Meter Code _____

Development Criteria

- ☒ 3 to 5 Casing Volumes of Water Removal
☐ Stabilization of Indicator Parameters
☐ Other _____

Methods of Development

- Pump Bailer
☐ Centrifugal ☒ Bottom Valve
☐ Submersible ☐ Double Check Valve
☐ Peristaltic ☐ Stainless-steel Kemmerer

☐ Other _____

Water Volume Calculation

Initial Depth of Well (feet) 15.1
Initial Depth to Water (feet) 3.87
Height of Water Column in Well (feet) 11.23

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		<u>7.4</u>	<u>22.3</u>
Gravel Pack			
Drilling Fluids			
Total			

Instruments

- ☒ pH Meter
☐ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☒ Other D.O. CHEMETS KIT

Water Disposal

ON SITE BARRELS

Water Removal Data

Date	Time	Development Method		Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative					
8-6-96	1804										20.7	7.16	386		
8-6-96	1809						5.0	5.0			18.0	6.81	399		
8-6-96	1816						5.0	10.0			16.6	6.84	408		
8-6-96	1823						5.0	15.0			16.3	6.75	407		
8-6-96	1829						5.0	20.0			15.3	6.88	397		
8-6-96	1838						5.0	25.0			15.4	7.01	396	4.0	

Comments _____

Developer's Signature Dennis Bird Date 8-6-96 Reviewer J.F. Date 8/14/96

EPFS

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY ANALYTICAL REPORT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	960694
SITE NAME:	Jacquez
SAMPLE SITE:	Monitor Well M-5
METER CODE:	n/a
SAMPLE DATE:	08/06/96
SAMPLE TIME (Hrs):	1845
SAMPLED BY:	D. Bird
DATE OF BTEX ANALYSIS:	08/08/96
SAMPLE TYPE:	Water

REMARKS:

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER	WQCC LIMIT PPB
BENZENE	<1		10
TOLUENE	<1		740
ETHYL BENZENE	<1		750
TOTAL XYLENES	<3		620
SURROGATE % RECOVERY	93.5	Allowed Range 80 to 120 %	

NOTES:

Reported By:

mda

Approved By:

Det. L. L. L. L. L.

Date:

8/14/96

EL PASO FIELD SERVICES LABORATORY

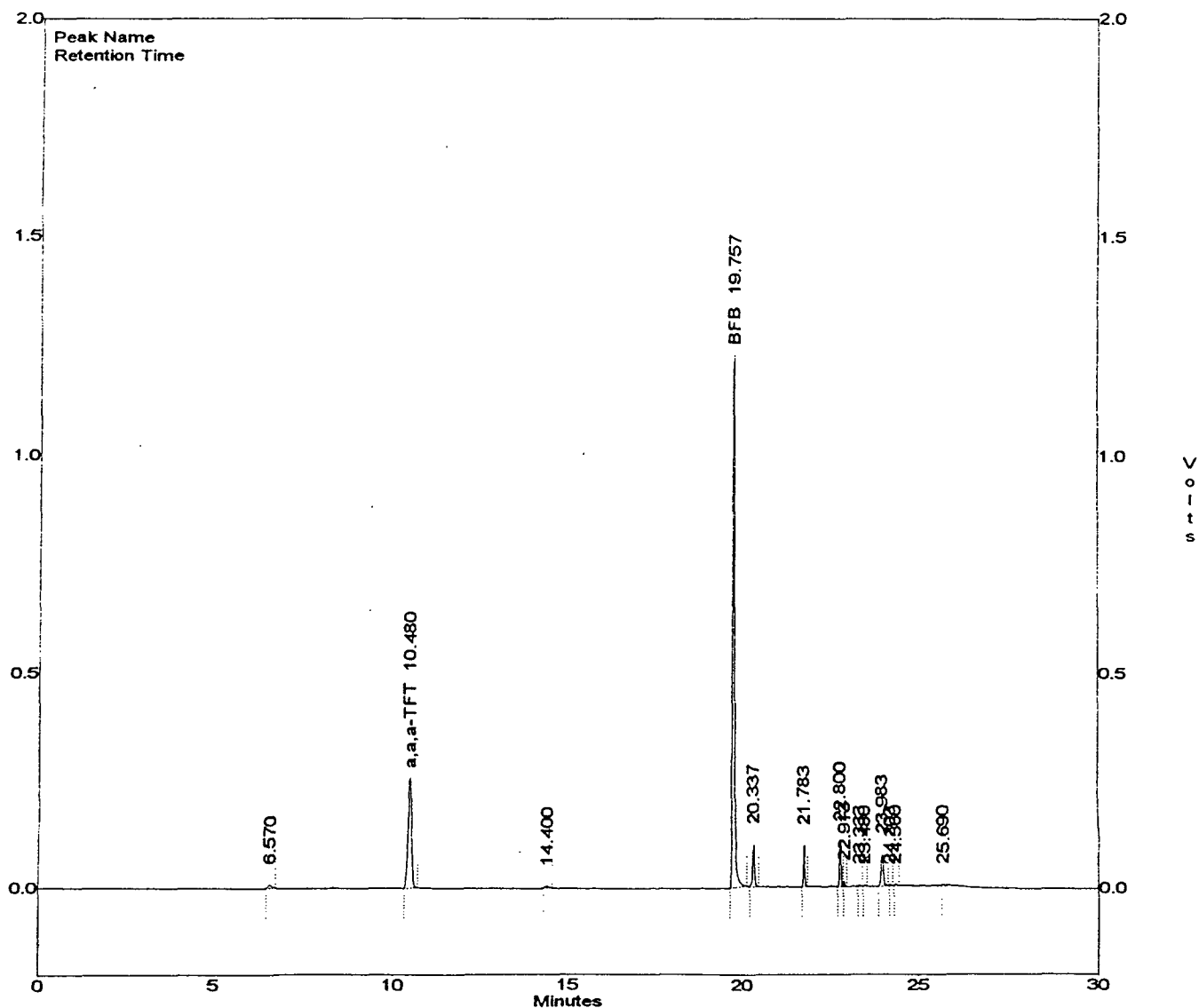
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Method : C:\LABQUEST\METHODS\0-072996.MET
Sample ID : 960694 X1
Acquired : Aug 08, 1996 23:09:17
Printed : Aug 08, 1996 23:39:41
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.273	0	0.0000
a,a,a-TFT	10.480	1753289	96.0633
TOLUENE	12.827	0	0.0000
ETHYLBENZENE	17.063	0	0.0000
M,P-XYLENES	17.433	0	0.0000
O-XYLENE	18.583	0	0.0000
BFB	19.757	5034500	93.4787

C:\LABQUEST\CHROM000\080896-0.022 -- Channel A



EPFS

EL PASO FIELD SERVICES

QUALITY CONTROL REPORT EPA METHOD 8020 - BTEX

Samples: 960684 thru 960694

QA/QC for 08/08/96 Sample Set

LABORATORY CALIBRATION CHECKS / LABORATORY CONTROL SAMPLES:

SAMPLE NUMBER	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE	
					YES	NO
ICV LA-52589 50 PPB					RANGE	
Benzene	Standard	50.0	48.1	96.2	75 - 125 %	X
Toluene	Standard	50.0	48.2	96.4	75 - 125 %	X
Ethylbenzene	Standard	50.0	48.3	96.6	75 - 125 %	X
m & p - Xylene	Standard	100	96.9	96.9	75 - 125 %	X
o - Xylene	Standard	50.0	48.5	97.0	75 - 125 %	X
LCS LA-45476 25 PPB					RANGE	
Benzene	Standard	25.0	24.3	97.2	39 - 150	X
Toluene	Standard	25.0	24.7	98.8	46 - 148	X
Ethylbenzene	Standard	25.0	25.0	100	32 - 160	X
m & p - Xylene	Standard	50.0	50.4	101	Not Given	X
o - Xylene	Standard	25.0	25.2	101	Not Given	X
CCV LA-52589 50 PPB					RANGE	
Benzene	Standard	50.0	48.9	97.8	75 - 125 %	X
Toluene	Standard	50.0	49.0	98.0	75 - 125 %	X
Ethylbenzene	Standard	50.0	48.8	97.6	75 - 125 %	X
m & p - Xylene	Standard	100	97.3	97.3	75 - 125 %	X
o - Xylene	Standard	50.0	49.1	98.2	75 - 125 %	X
CCV LA-52589 50 PPB					RANGE	
Benzene	Standard	50.0	49.4	98.8	75 - 125 %	X
Toluene	Standard	50.0	49.2	98.4	75 - 125 %	X
Ethylbenzene	Standard	50.0	49.0	98.0	75 - 125 %	X
m & p - Xylene	Standard	100	97.1	97.1	75 - 125 %	X
o - Xylene	Standard	50.0	49.3	98.6	75 - 125 %	X

Qualitative: Acceptable.

EL PASO FIELD SERVICES LAB
QUALITY CONTROL REPORT
EPA METHOD 8020 - BTEX
Samples: 960684 thru 960694

LABORATORY DUPLICATES:

SAMPLE ID	TYPE	SAMPLE RESULT PPB	DUPLICATE RESULT PPB	RPD	ACCEPTABLE	
					YES	NO
960686					RANGE	
Benzene	Matrix Duplicate	1.24	1.21	2.45	+/- 20 %	X
Toluene	Matrix Duplicate	24.7	24.2	2.04	+/- 20 %	X
Ethylbenzene	Matrix Duplicate	25.9	25.5	1.56	+/- 20 %	X
m & p - Xylene	Matrix Duplicate	184	178	3.31	+/- 20 %	X
o - Xylene	Matrix Duplicate	52.2	50.9	2.52	+/- 20 %	X

Narrative: Acceptable.

LABORATORY SPIKES:

SAMPLE ID	SPIKE ADDED PPB	SAMPLE RESULT PPB	SPIKE SAMPLE RESULT PPB	%R	ACCEPTABLE	
					YES	NO
2nd Analysis 960686					RANGE	
Benzene	50	1.24	49.1	95.7	75 - 125 %	X
Toluene	50	24.7	75.3	101	75 - 125 %	X
Ethylbenzene	50	25.9	72.5	93.2	75 - 125 %	X
m & p - Xylene	100	184	270	86.0	75 - 125 %	X
o - Xylene	50	52.2	96.1	87.8	75 - 125 %	X

Narrative: Acceptable.

ADDITIONAL ANALYTICAL BLANKS:

AUTO BLANK	SOURCE	PPB	STATUS
Benzene	Boiled Water	<1.0	ACCEPTABLE
Toluene	Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

SOIL VIAL BLANK	SOURCE Lot MB1461	PPB (Analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

CONTAMINATION CARRYOVER CHECK	SOURCE	PPB (None analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	N/A
Toluene	Vial + Boiled Water	<1.0	N/A
Ethylbenzene	Vial + Boiled Water	<1.0	N/A
Total Xylenes	Vial + Boiled Water	<3.0	N/A

Narrative: Acceptable.

Reported By: mdo

Approved By: John T. Ladd

Date: 8/19/90

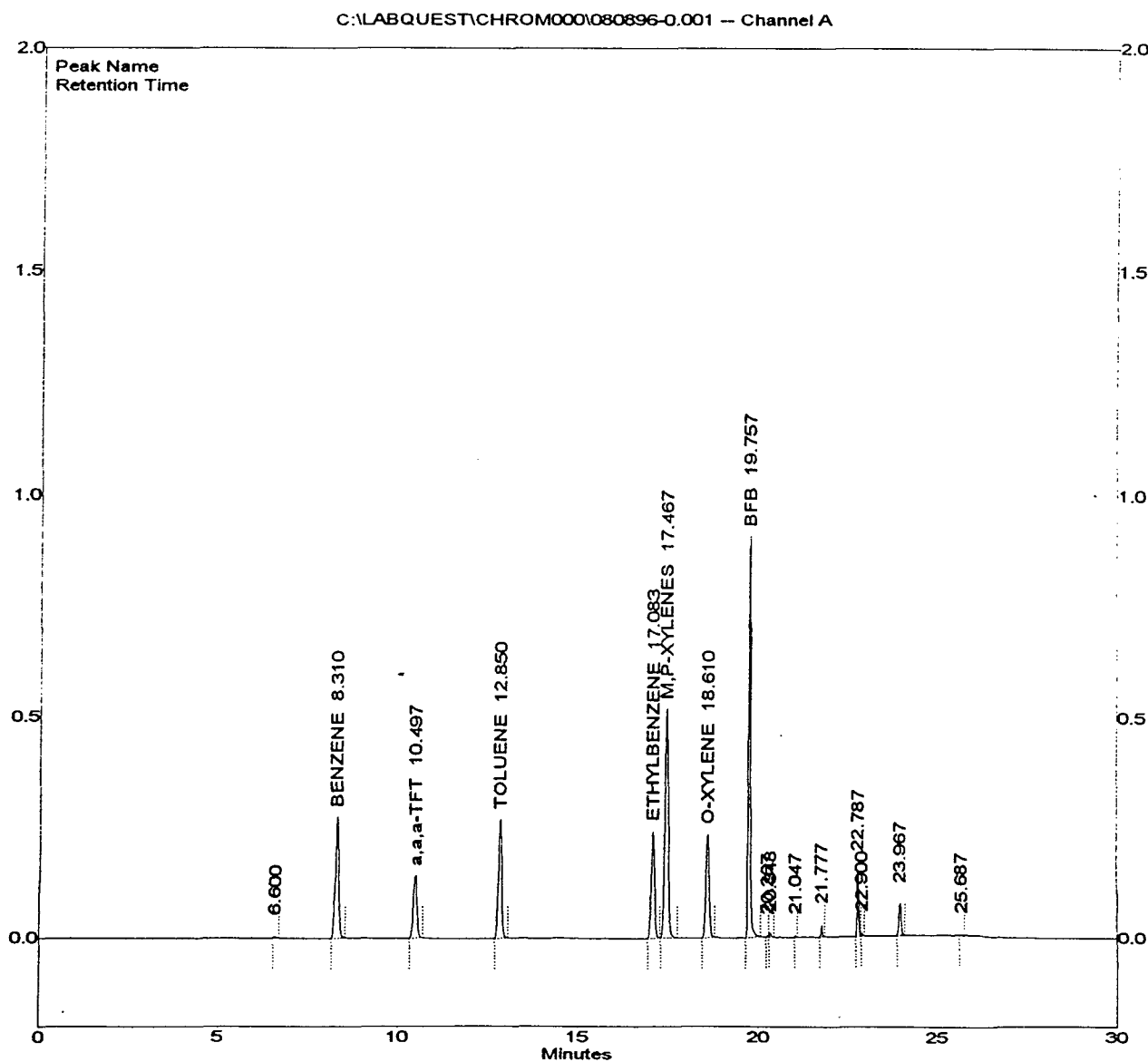
EL PASO FIELD SERVICES LABORATORY

EPA METHOD 8020 - BTEX

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 Method : C:\LABQUEST\METHODS\0-072996.MET
 Sample ID : ICV 50 ppb
 Acquired : Aug 08, 1996 08:47:15
 Printed : Aug 08, 1996 09:17:42
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.310	1799608	48.0663
a,a,a-TFT	10.497	975848	53.4671
TOLUENE	12.850	1690362	48.2363
ETHYLBENZENE	17.083	1526548	48.3173
M,P-XYLENES	17.467	3433341	96.9156
O-XYLENE	18.610	1483007	48.4877
BFB	19.757	3464807	64.3332



EL PASO FIELD SERVICES LABORATORY

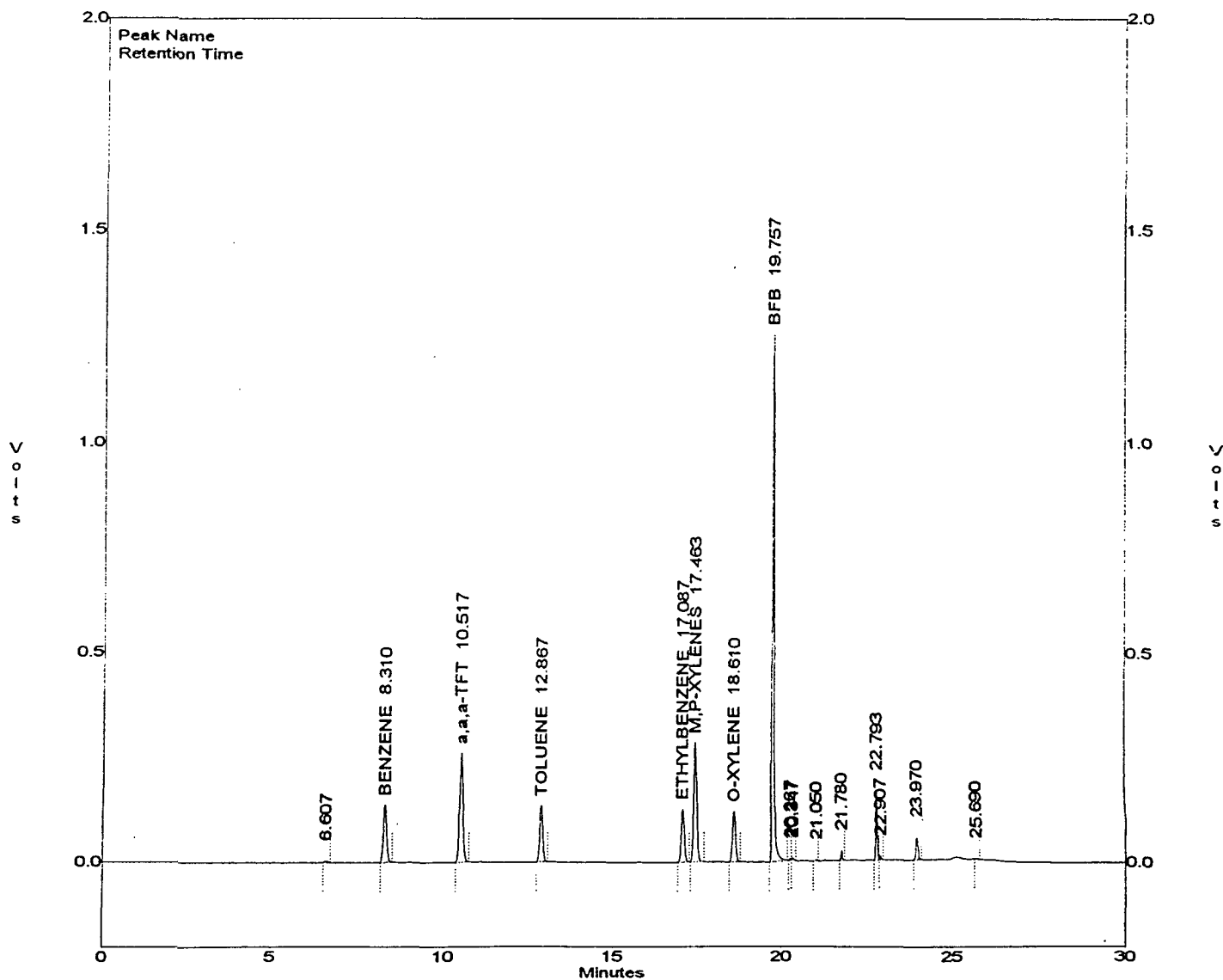
EPA METHOD 8020 - BTEX

File : C:\LABQUEST\CHROM000\080896-0.002
 Method : C:\LABQUEST\METHODS\0-072996.MET
 Sample ID : LCS 25 ppb
 Acquired : Aug 08, 1996 09:27:55
 Printed : Aug 08, 1996 09:58:21
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.310	893137	24.2621
a,a,a-TFT	10.517	1769333	96.9424
TOLUENE	12.867	856253	24.6709
ETHYLBENZENE	17.087	781126	25.0145
M,P-XYLENES	17.463	1804265	50.3890
O-XYLENE	18.610	760554	25.1923
BFB	19.757	5122191	95.1069

C:\LABQUEST\CHROM000\080896-0.002 -- Channel A



EL PASO FIELD SERVICES LABORATORY

EPA METHOD 8020 - BTEX

File : C:\LABQUEST\CHROM000\080896-0.009

Method : C:\LABQUEST\METHODS\0-072996.MET

Sample ID : CCV 50 ppb

Acquired : Aug 08, 1996 14:17:22

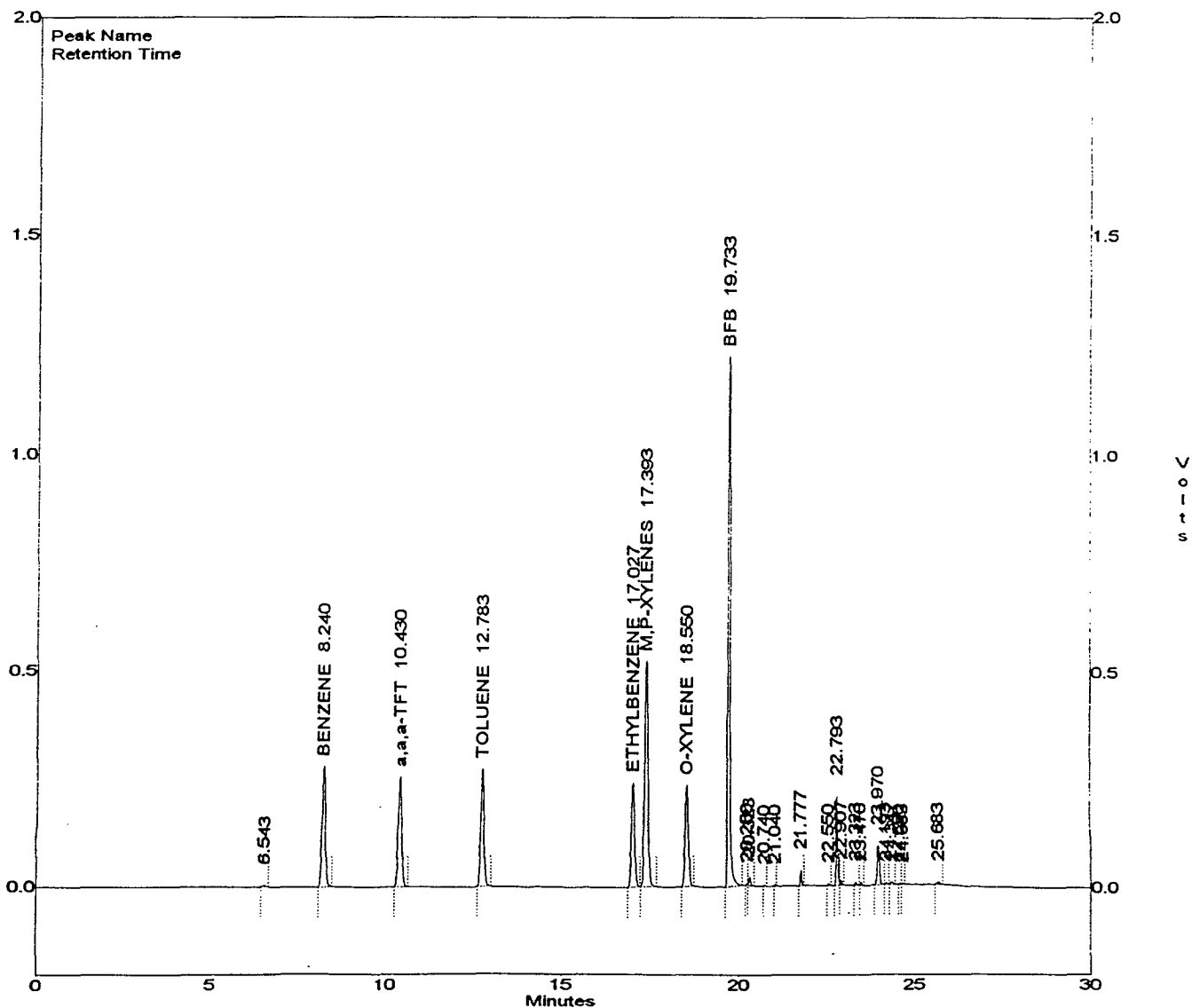
Printed : Aug 08, 1996 14:47:47

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.240	1830786	48.8845
a,a,a-TFT	10.430	1771446	97.0581
TOLUENE	12.783	1716881	48.9853
ETHYLBENZENE	17.027	1543569	48.8494
M,P-XYLENES	17.393	3445520	97.2635
O-XYLENE	18.550	1502562	49.1182
BFB	19.733	5134057	95.3272

C:\LABQUEST\CHROM000\080896-0.009 -- Channel A



EL PASO FIELD SERVICES LABORATORY

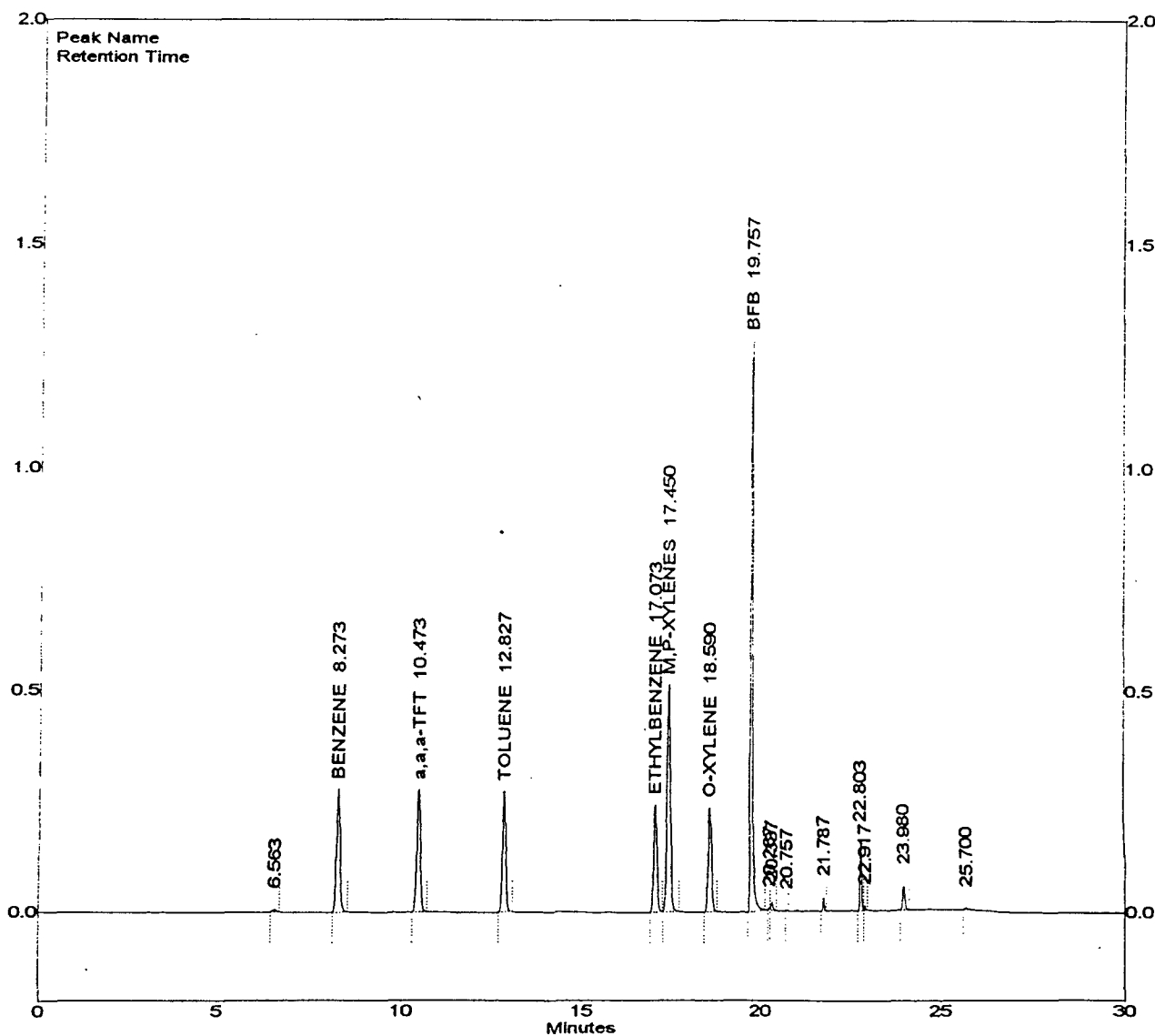
EPA METHOD 8020 - BTEX

File : C:\LABQUEST\CHROM000\080896-0.019
 Method : C:\LABQUEST\METHODS\0-072996.MET
 Sample ID : CCV 50 ppb
 Acquired : Aug 08, 1996 21:06:30
 Printed : Aug 08, 1996 21:36:55
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.273	1849496	49.3754
a,a,a-TFT	10.473	1863191	102.0848
TOLUENE	12.827	1725249	49.2217
ETHYLBENZENE	17.073	1544102	48.8660
M,P-XYLENES	17.450	3438960	97.0761
O-XYLENE	18.590	1508973	49.3250
BFB	19.757	5193041	96.4224

C:\LABQUEST\CHROM000\080896-0.019 -- Channel A



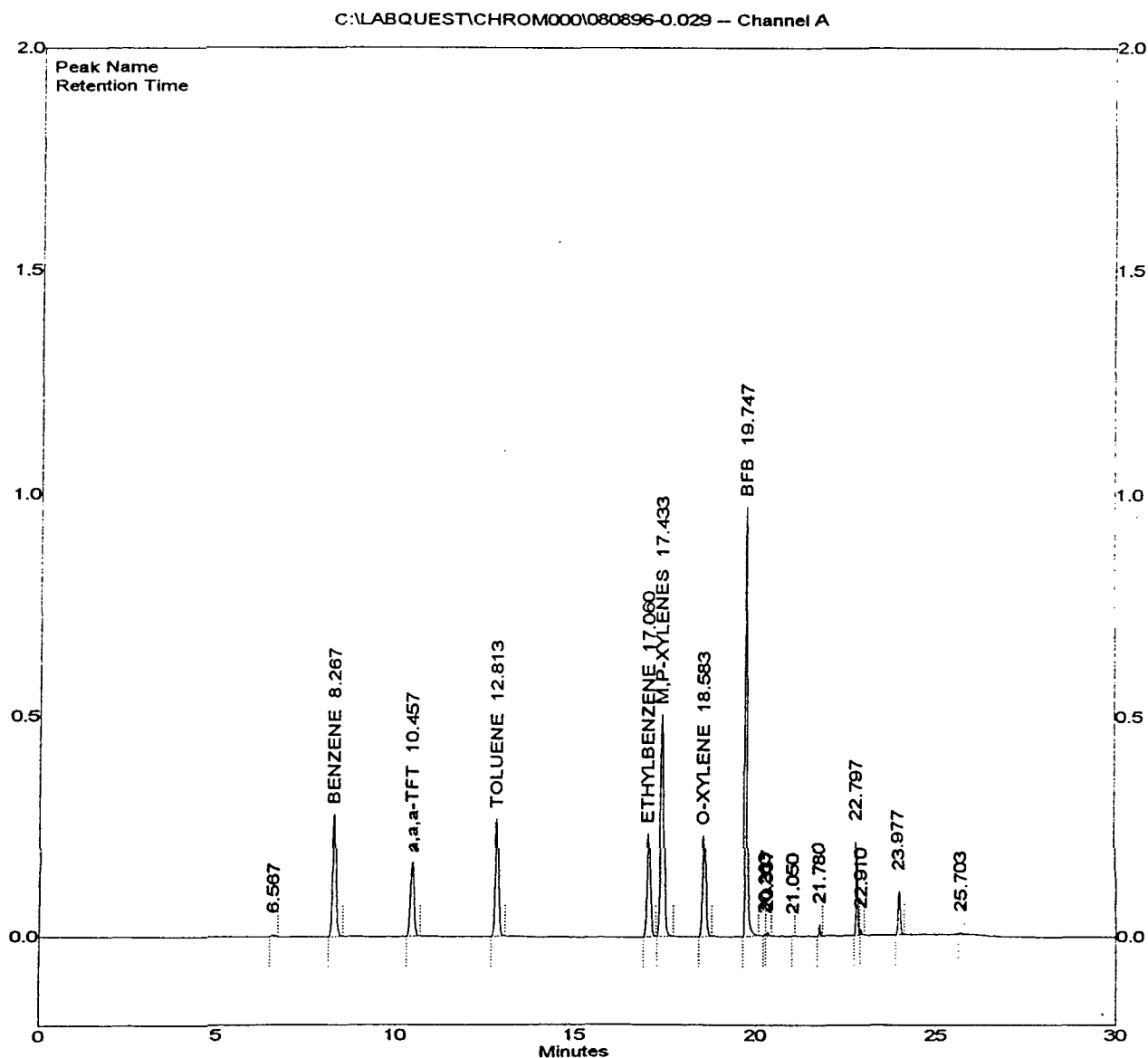
EL PASO FIELD SERVICES LABORATORY

EPA METHOD 8020 - BTEX

File : C:\LABQUEST\CHROM000\080896-0.029
 Method : C:\LABQUEST\METHODS\0-072996.MET
 Sample ID : CCV 50 ppb
 Acquired : Aug 09, 1996 03:55:05
 Printed : Aug 09, 1996 04:25:30
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.267	1820755	48.6212
a,a,a-TFT	10.457	1156116	63.3440
TOLUENE	12.813	1692506	48.2968
ETHYLBENZENE	17.060	1507944	47.7357
M, P-XYLENES	17.433	3346012	94.4215
O-XYLENE	18.583	1473712	48.1880
BFB	19.747	3810745	70.7565



EL PASO FIELD SERVICES LABORATORY

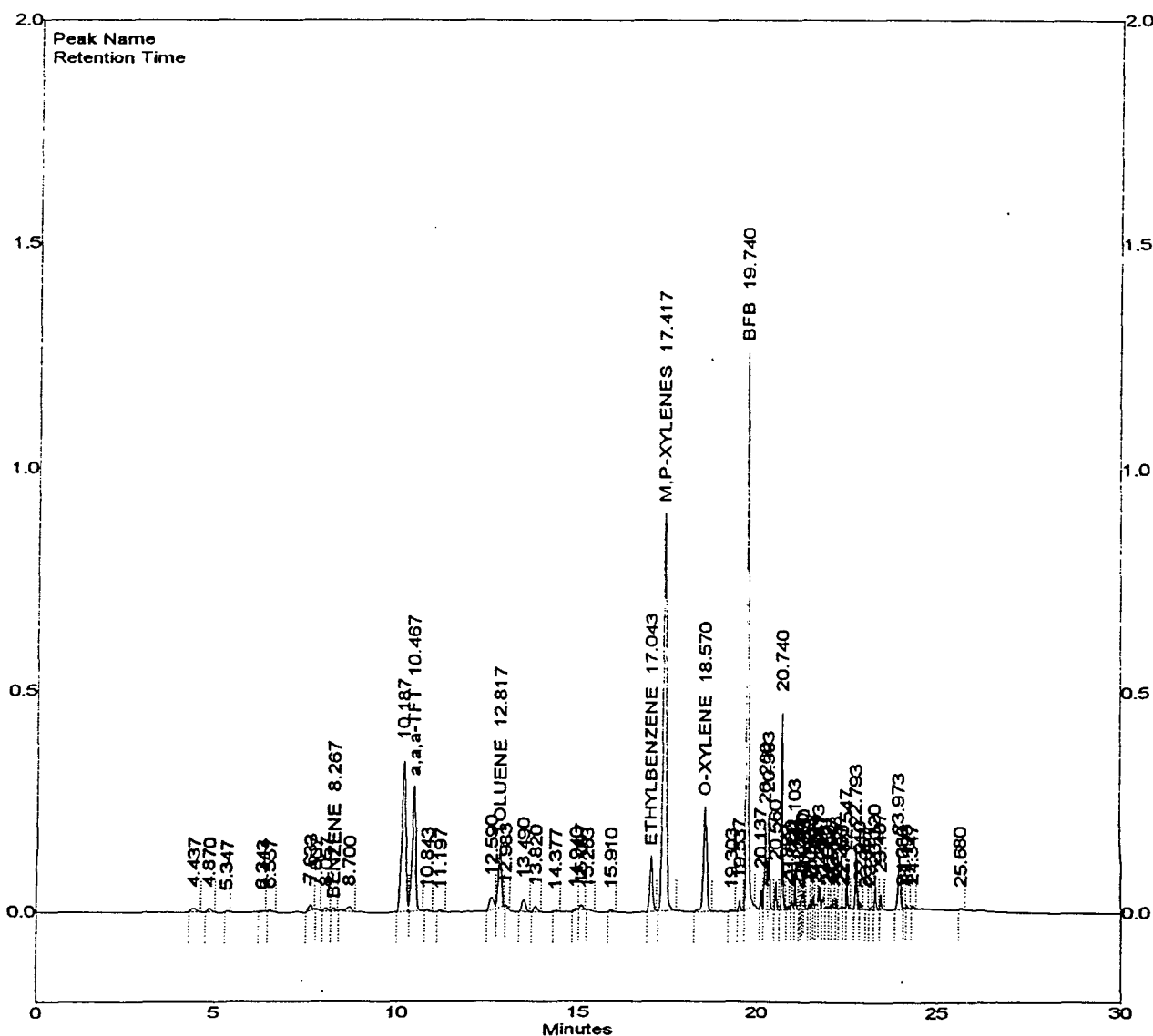
EPA METHOD 8020 - BTEX

File : C:\LABQUEST\CHROM000\080896-0.007
 Method : C:\LABQUEST\METHODS\0-072996.MET
 Sample ID : 960686 X1 DUP
 Acquired : Aug 08, 1996 12:53:49
 Printed : Aug 08, 1996 13:24:16
 User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.267	43377	1.2052
a,a,a-TFT	10.467	1901788	104.1996
TOLUENE	12.817	841257	24.2415
ETHYLBENZENE	17.043	795943	25.4777
M,P-XYLENES	17.417	6112903	178.3627
O-XYLENE	18.570	1556279	50.8670
BFB	19.740	5033350	93.4573

C:\LABQUEST\CHROM000\080896-0.007 -- Channel A

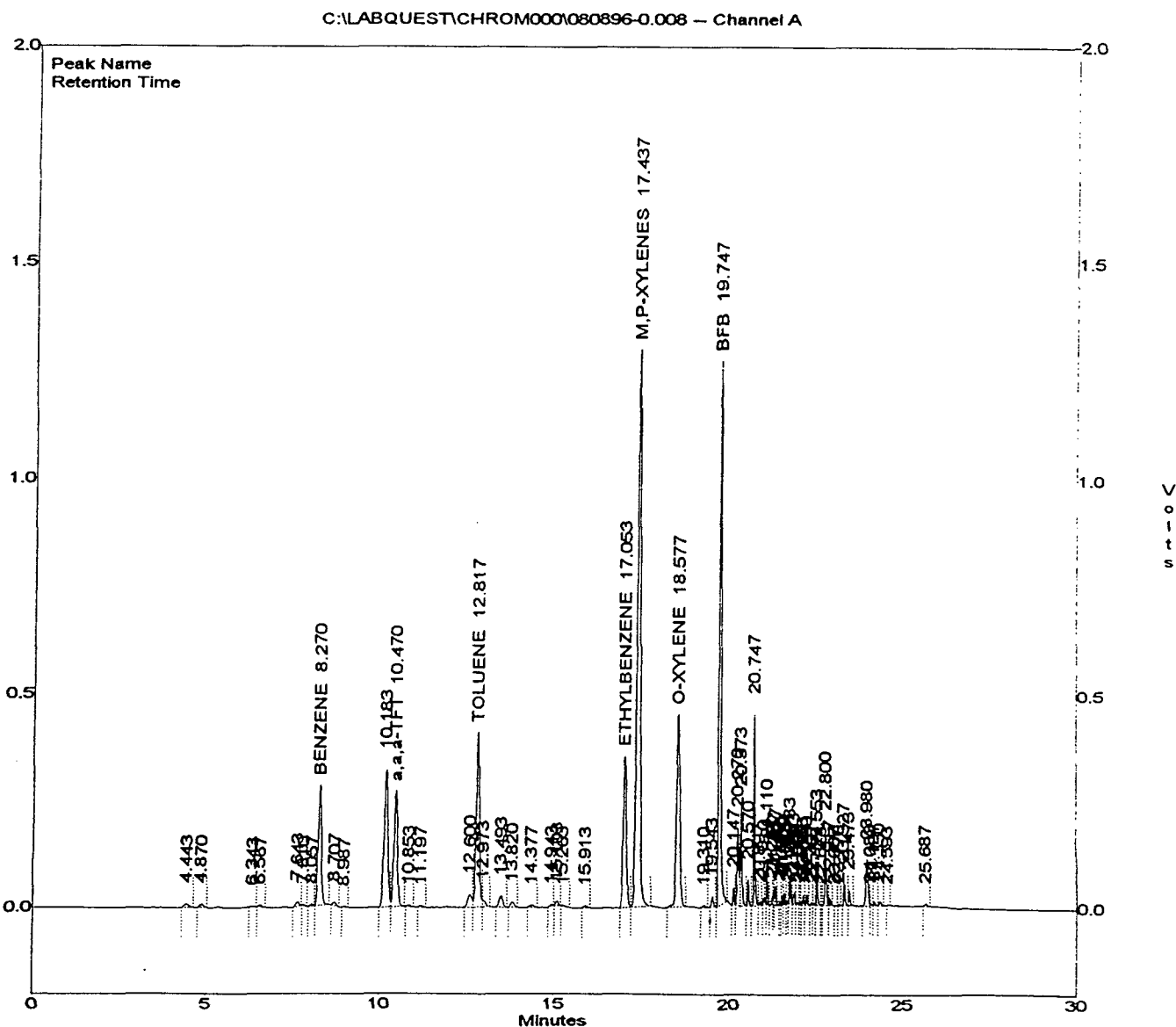


EPA METHOD 8020 - BTEX

File : C:\LABQUEST\CHROM000\080896-0.008
Method : C:\LABQUEST\METHODS\0-072996.MET
Sample ID : 960686 X1 SPK
Acquired : Aug 08, 1996 13:35:25
Printed : Aug 08, 1996 14:05:54
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.270	1838828	49.0955
a,a,a-TFT	10.470	1886061	103.3379
TOLUENE	12.817	2639047	75.3295
ETHYLBENZENE	17.053	2296580	72.5356
M,P-XYLENES	17.437	8837014	269.9430
O-XYLENE	18.577	2937988	96.2905
BFB	19.747	4994769	92.7410



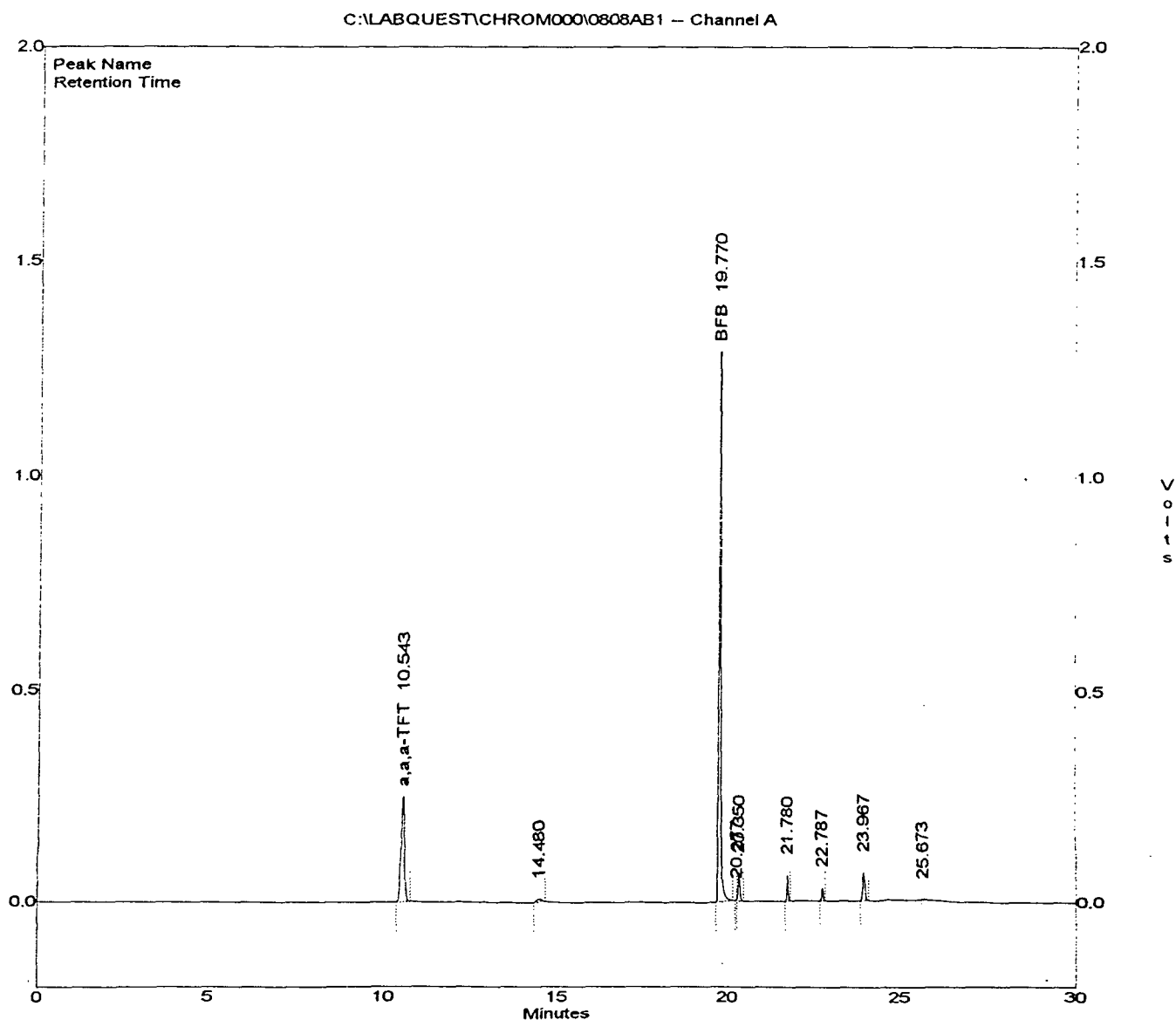
EL PASO FIELD SERVICES LABORATORY

EPA METHOD 8020 - BTEX

File : C:\LABQUEST\CHROM000\0808AB1
Method : C:\LABQUEST\METHODS\0-072996.MET
Sample ID : AUTOBLANK #1
Acquired : Aug 08, 1996 07:18:24
Printed : Aug 08, 1996 07:48:48
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.273	0	0.0000
a,a,a-TFT	10.543	1698127	93.0410
TOLUENE	12.827	0	0.0000
ETHYLBENZENE	17.063	0	0.0000
M,P-XYLENES	17.433	0	0.0000
O-XYLENE	18.583	0	0.0000
BFB	19.770	5117232	95.0148



EL PASO FIELD SERVICES LABORATORY

EPA METHOD 8020 - BTEX

File : C:\LABQUEST\CHROM000\080896-0.030

Method : C:\LABQUEST\METHODS\0-072996.MET

Sample ID : VIAL BLANK

Acquired : Aug 09, 1996 04:36:19

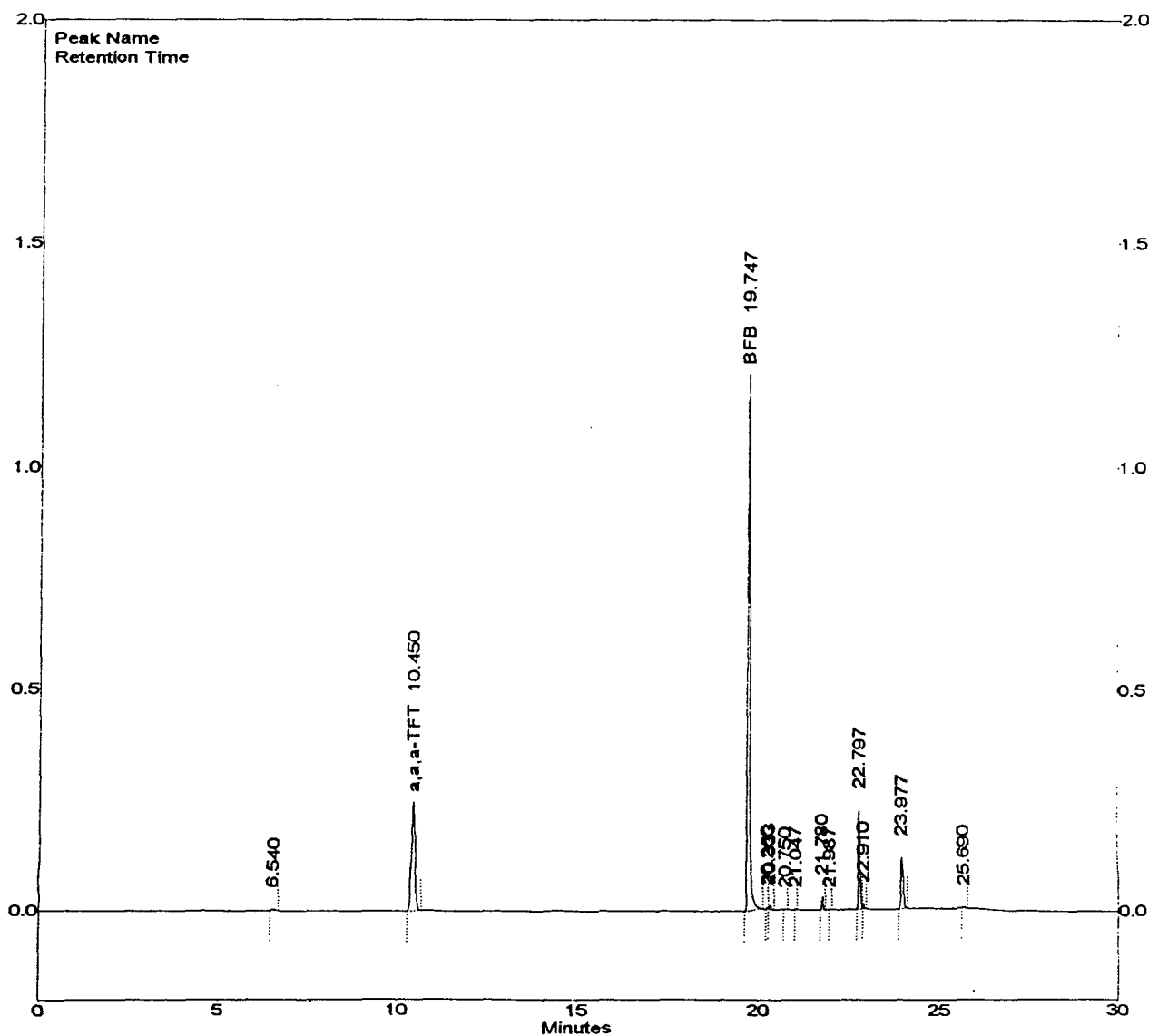
Printed : Aug 09, 1996 05:06:42

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.273	0	0.0000
a,a,a-TFT	10.450	1683879	92.2603
TOLUENE	12.827	0	0.0000
ETHYLBENZENE	17.063	0	0.0000
M,P-XYLENES	17.433	0	0.0000
O-XYLENE	18.583	0	0.0000
BFB	19.747	4924378	91.4340

C:\LABQUEST\CHROM000\080896-0.030 - Channel A



EL PASO FIELD SERVICES LABORATORY

EPA METHOD 8020 - BTEX

File : C:\LABQUEST\CHROM000\080896-0.003

Method : C:\LABQUEST\METHODS\0-072996.MET

Sample ID : TRIP BLANK 8/6

Acquired : Aug 08, 1996 10:09:00

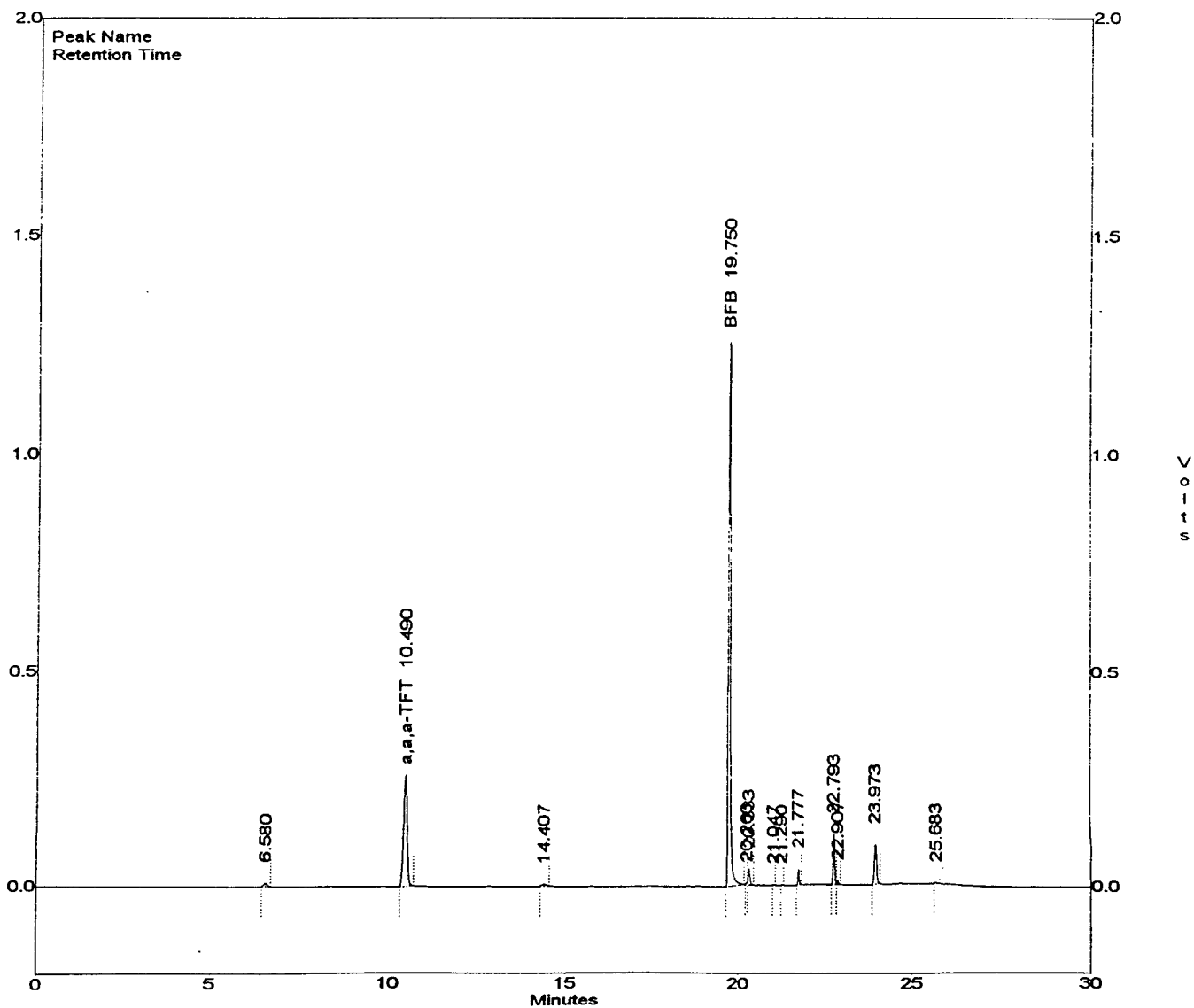
Printed : Aug 08, 1996 10:39:24

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.273	0	0.0000
a,a,a-TFT	10.490	1795357	98.3682
TOLUENE	12.827	0	0.0000
ETHYLBENZENE	17.063	0	0.0000
M,P-XYLENES	17.433	0	0.0000
O-XYLENE	18.583	0	0.0000
BFB	19.750	5169561	95.9864

C:\LABQUEST\CHROM000\080896-0.003 -- Channel A



EL PASO FIELD SERVICES LABORATORY

EPA METHOD 8020 - BTEX

File : C:\LABQUEST\CHROM000\080896-0.014

Method : C:\LABQUEST\METHODS\0-072996.MET

Sample ID : BLANK

Acquired : Aug 08, 1996 17:42:33

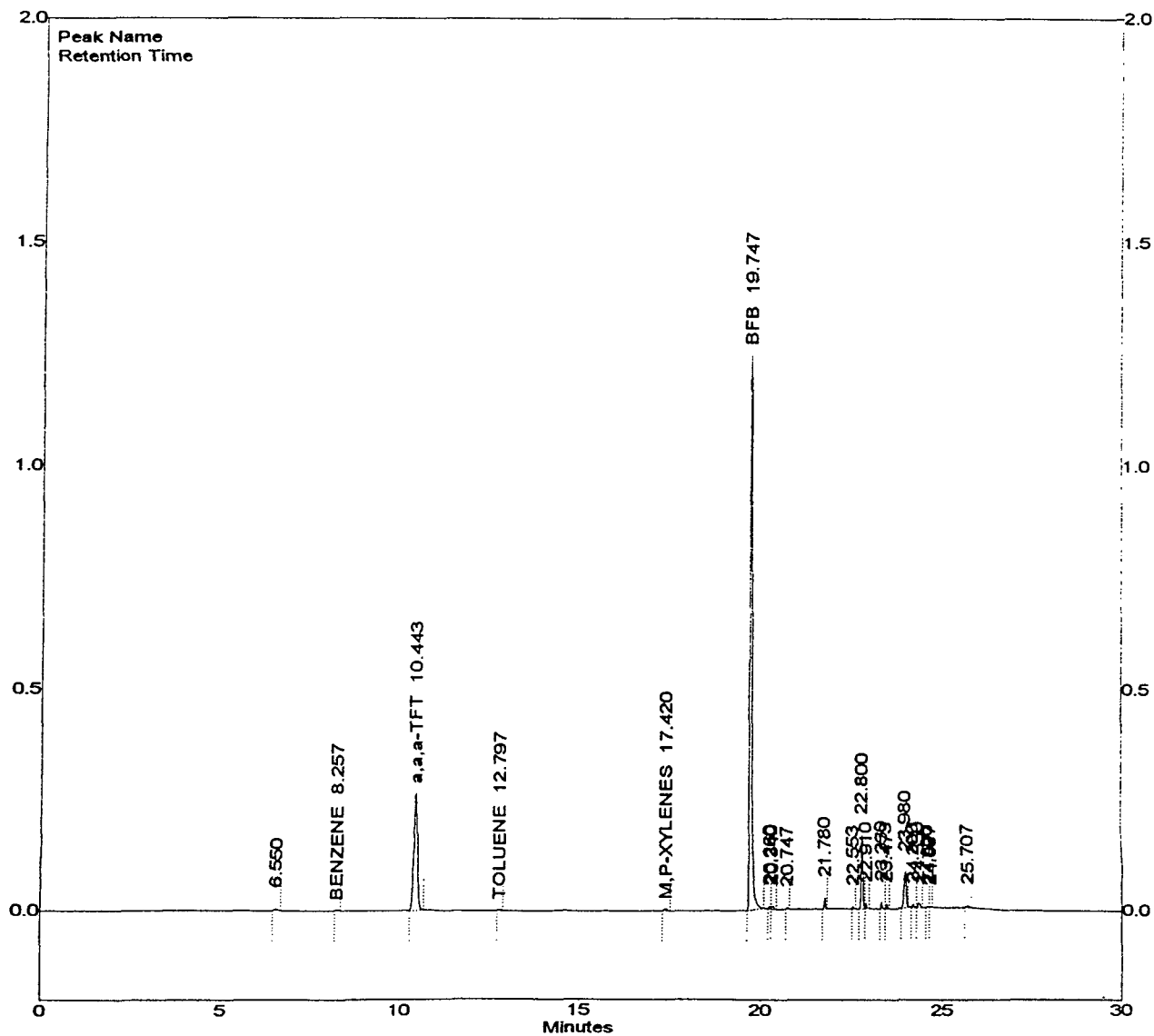
Printed : Aug 08, 1996 18:12:58

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.257	12172	0.3382
a,a,a-TFT	10.443	1803345	98.8059
TOLUENE	12.797	8378	0.2434
ETHYLBENZENE	17.063	0	0.0000
M,P-XYLENES	17.420	24052	0.6791
O-XYLENE	18.583	0	0.0000
BFB	19.747	5150810	95.6383

C:\LABQUEST\CHROM000\080896-0.014 - Channel A



EL PASO FIELD SERVICES LABORATORY

EPA METHOD 8020 - BTEX

File : C:\LABQUEST\CHROM000\080896-0.025

Method : C:\LABQUEST\METHODS\0-072996.MET

Sample ID : BLANK

Acquired : Aug 09, 1996 01:11:23

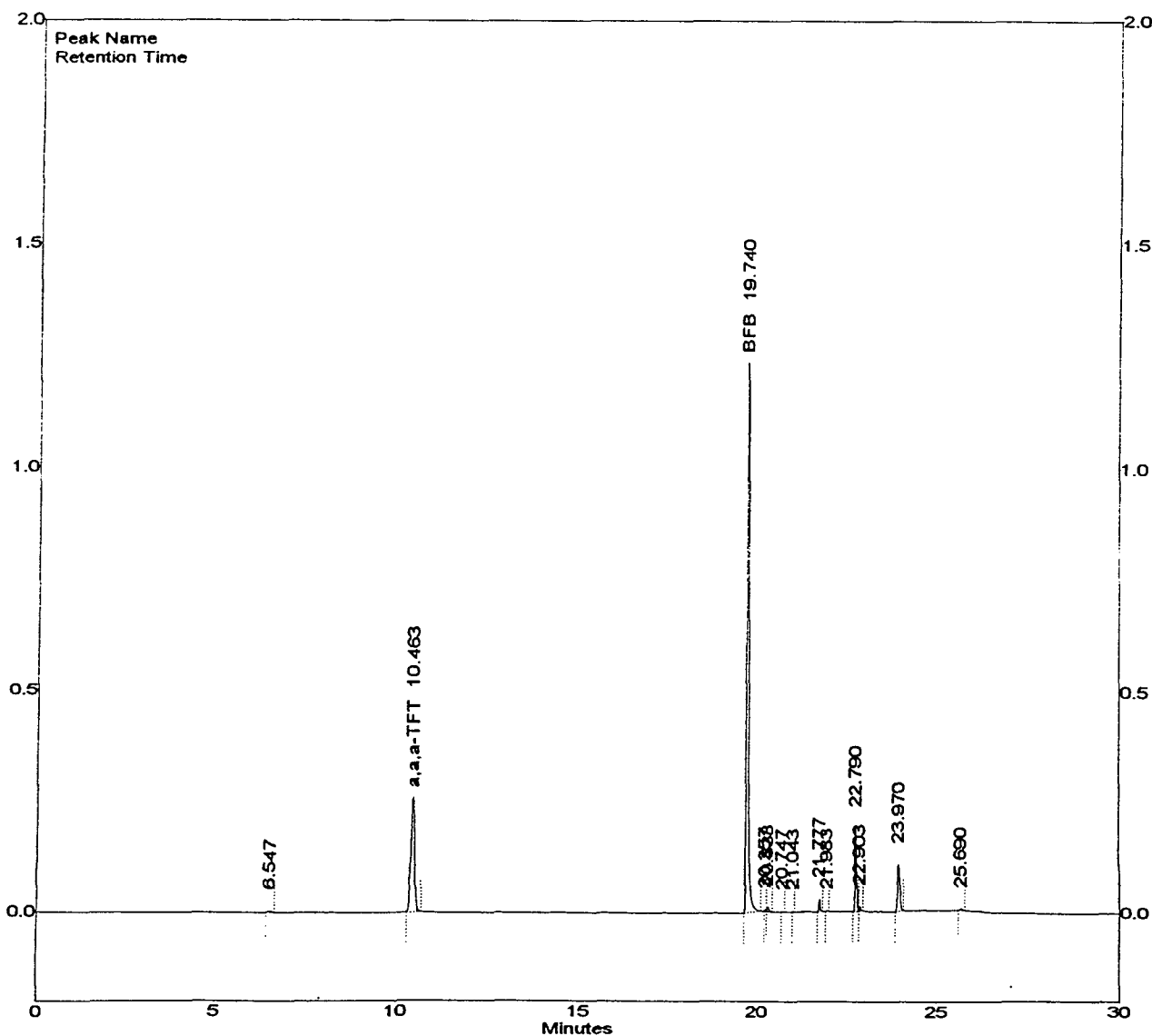
Printed : Aug 09, 1996 01:41:47

User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.273	0	0.0000
a,a,a-TFT	10.463	1765983	96.7588
TOLUENE	12.827	0	0.0000
ETHYLBENZENE	17.063	0	0.0000
M,P-XYLENES	17.433	0	0.0000
O-XYLENE	18.583	0	0.0000
BFB	19.740	5053033	93.8228

C:\LABQUEST\CHROM000\080896-0.025 -- Channel A



EL PASO FIELD SERVICES LABORATORY

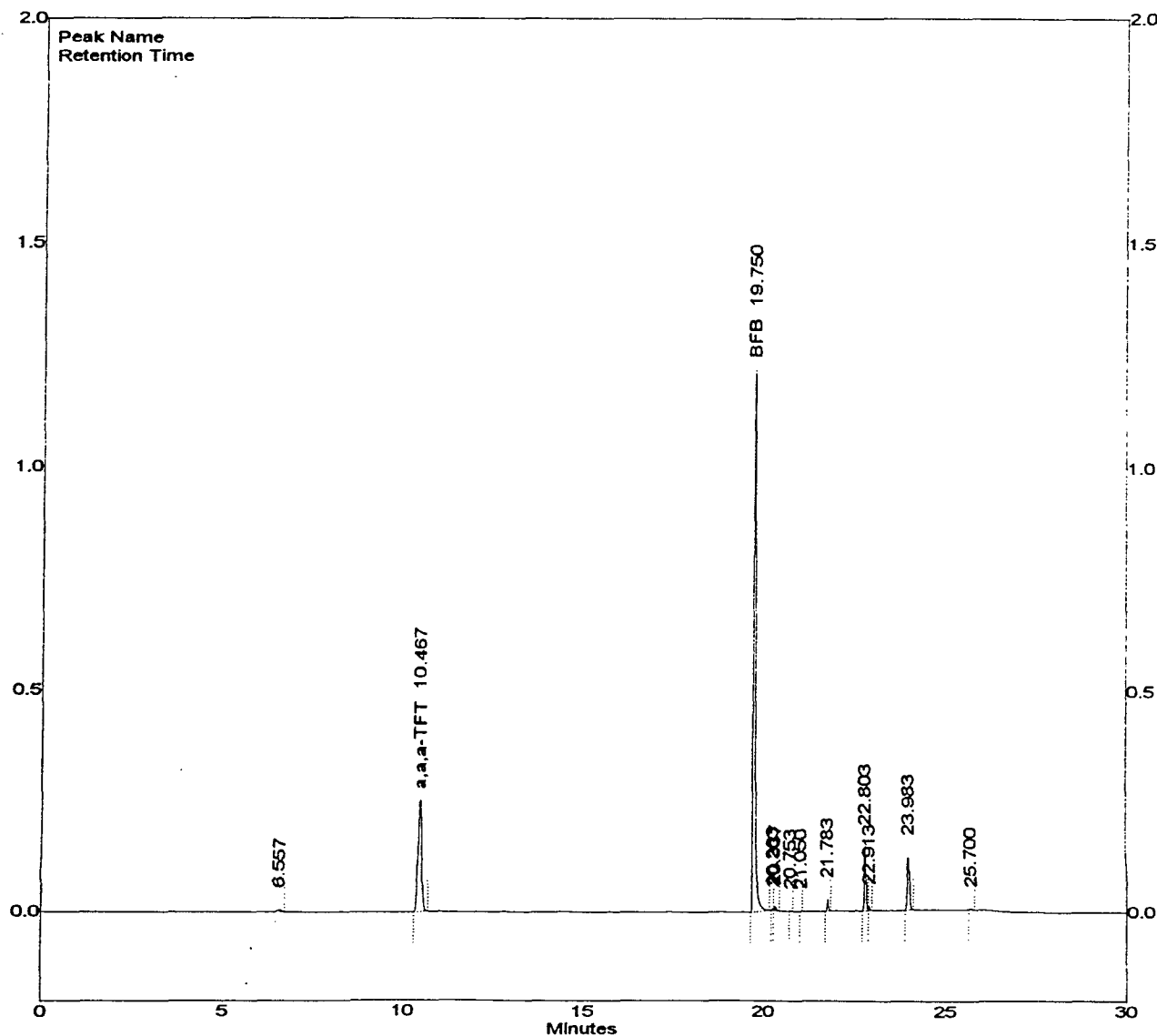
EPA METHOD 8020 - BTEX

File : C:\LABQUEST\CHROM000\080896-0.028
Method : C:\LABQUEST\METHODS\0-072996.MET
Sample ID : BLANK
Acquired : Aug 09, 1996 03:14:11
Printed : Aug 09, 1996 03:44:34
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.273	0	0.0000
a,a,a-TFT	10.467	1740036	95.3371
TOLUENE	12.827	0	0.0000
ETHYLBENZENE	17.063	0	0.0000
M,P-XYLENES	17.433	0	0.0000
O-XYLENE	18.583	0	0.0000
BFB	19.750	4996519	92.7735

C:\LABQUEST\CHROM000\080896-0.028 - Channel A



Appendix C - PAH Analytical Results

February 26, 1996

1996 PNA REPORT

**Jaquez Corn Field
Monitor Well Analytical Results
Lab Sample #'s 960093 to 960103
Sampled February 5, 1996
Sampled by D. Bird and R. Benson**

Report Distribution:

Sandra Miller - With Copy of Invoice
Results Log Book ✓

Original Invoice to Accounts Payable, Charge 6138-6113-6115-90010-515



2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

February 21, 1996

Project Name/Number: JAQUEZ

On 02/07/96, Analytical Technologies, of New Mexico Inc., (ADHS License No. AZ0015), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

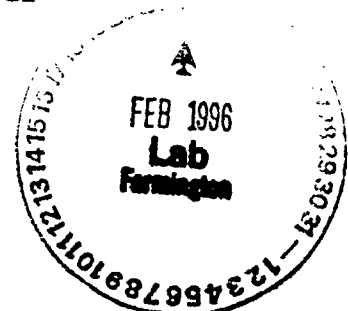
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Kimberly D. McNeill
Project Manager

MR:jt

14 Mitchell Rubenstein

H. Mitchell Rubenstein, Ph.D.
Laboratory Manager





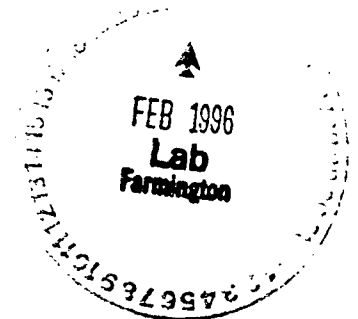
Analytical Technologies, Inc.

CLIENT : EL PASO NATURAL GAS
PROJECT # : (NONE)
PROJECT NAME : JAQUEZ

DATE RECEIVED : 02/07/96
REPORT DATE : 02/21/96

ATI ID: 602311

	ATI ID #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	602311-01	960093- R-1	AQUEOUS	02/05/96
02	602311-02	960094- R-2	AQUEOUS	02/05/96
03	602311-03	960095- R-3	AQUEOUS	02/05/96
04	602311-04	960097- R-4	AQUEOUS	02/05/96
05	602311-05	960098- R-5	AQUEOUS	02/05/96
06	602311-06	960099- m-1	AQUEOUS	02/05/96
07	602311-07	960100- m-2	AQUEOUS	02/05/96
08	602311-08	960101- m-3	AQUEOUS	02/05/96
09	602311-09	960102- m-4	AQUEOUS	02/05/96
10	602311-10	960103- m-5	AQUEOUS	02/05/96



---TOTALS---

<u>MATRIX</u>	<u>#SAMPLES</u>
AQUEOUS	10

ATI STANDARD DISPOSAL PRACTICE

The samples from this project will be disposed of in thirty (30) days from the date of this report. If an extended storage period is required, please contact our sample control department before the scheduled disposal date.



Analytical Technologies, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS

Method 8310

Sample ID

Lab Name: Analytical Technologies of Colorado, Inc.

Client Name: ATI-NM

Client Project ID: EPNG - Jaquez -- 602311

Lab Sample ID: 96-02-057-01

960093

MW

R-1

Sample Matrix: Water

Cleanup: N/A

Date Collected: 2-05-96

Date Extracted: 2-09-96

Date Analyzed: 2-13-96

Sample Volume: 1000 mL

Final Volume: 10 mL

Analyte	Conc (ug/L)	Detection Limit (ug/L)
Naphthalene	30	5.0
Acenaphthylene	ND	10
1-Methylnaphthalene	17	10
2-Methylnaphthalene	33	10
Acenaphthene	ND	10
Fluorene	2.4	1.0
Phenanthrene	2.5	0.50
Anthracene	ND	1.0
Flouranthrene	1.9	1.0
Pyrene	0.86	0.50
Benzo(a)anthracene	ND	0.50
Chrysene	ND	0.50
Benzo(b)fluoranthrene	ND	1.0
Benzo(k)fluoranthrene	ND	0.50
Benzo(a)pyrene	ND	0.50
Dibenzo(a,h)anthracene	ND	1.0
Benzo(g,h,i)perylene	ND	1.0
Indeno(1,2,3-c,d)pyrene	ND	1.0

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2-Chloroanthracene	80	15 - 117

ND = Not Detected at or above client requested detection limit.

Naphthalenes = 80 PPB - WQCC Limit = 30 PPB - Fail
Benzo(a) pyrene = < 0.50 PPB - WQCC Limit = 0.7 PPB - Pass

JF
2-26-96



Analytical Technologies, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS

Method 8310

Sample ID

Lab Name: Analytical Technologies of Colorado, Inc.

Client Name: ATI-NM

Client Project ID: EPNG - Jaquez -- 602311

Lab Sample ID: 96-02-057-02

960094

1116

R-2

Date Collected: 2-05-96

Date Extracted: 2-09-96

Date Analyzed: 2-13-96

Sample Matrix: Water

Cleanup: N/A

Sample Volume: 1000 mL

Final Volume: 1 mL

Analyte	Conc (ug/L)	Detection Limit (ug/L)
Naphthalene	2.7 K	0.50
Acenaphthylene	ND	1.0
1-Methylnaphthalene	3.7	1.0
2-Methylnaphthalene	3.6	1.0
Acenaphthene	ND	1.0
Fluorene	1.0	0.10
Phenanthrene	0.58	0.050
Anthracene	ND	0.10
Flouranthrene	0.80	0.10
Pyrene	0.39	0.050
Benzo(a)anthracene	ND	0.050
Chrysene	ND	0.050
Benzo(b)fluoranthrene	ND	0.10
Benzo(k)fluoranthrene	ND	0.050
Benzo(a)pyrene	ND	0.050
Dibenzo(a,h)anthracene	0.20	0.10
Benzo(g,h,i)perylene	ND	0.10
Indeno(1,2,3-c,d)pyrene	ND	0.10

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2-Chloroanthracene	73	15 - 117

ND = Not Detected at or above client requested detection limit.

K = Concentration confirmation does not agree within 50%.

Naphthalenes = 10 PPB

Benzo(a) Pyrene

WQC Limit = 30 PPB

PASS

JAS JP

2-20-96



Analytical Technologies, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS

Method 8310

Sample ID

Lab Name: Analytical Technologies of Colorado, Inc.

Client Name: ATI-NM

Client Project ID: EPNG - Jaquez -- 602311

Lab Sample ID: 96-02-057-03

960095

mw
R-3

Sample Matrix: Water

Cleanup: N/A

Date Collected: 2-05-96

Date Extracted: 2-09-96

Date Analyzed: 2-13-96

Sample Volume: 1000 mL

Final Volume: 1 mL

Analyte	Conc (ug/L)	Detection Limit (ug/L)
Naphthalene	0.58	0.50
Acenaphthylene	ND	1.0
1-Methylnaphthalene	ND	1.0
2-Methylnaphthalene	0.60 J	1.0
Acenaphthene	ND	1.0
Fluorene	ND	0.10
Phenanthrene	0.037 J	0.050
Anthracene	ND	0.10
Flouranthrene	ND	0.10
Pyrene	ND	0.050
Benzo(a)anthracene	ND	0.050
Chrysene	ND	0.050
Benzo(b)fluoranthrene	ND	0.10
Benzo(k)fluoranthrene	ND	0.050
Benzo(a)pyrene	ND	0.050
Dibenzo(a,h)anthracene	ND	0.10
Benzo(g,h,i)perylene	ND	0.10
Indeno(1,2,3-c,d)pyrene	ND	0.10

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2-Chloroanthracene	28	15 - 117

ND = Not Detected at or above client requested detection limit.

J = Estimated value.

PASS ALL
J.L.
2-26-96



Analytical Technologies, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS

Method 8310

Lab Name: Analytical Technologies of Colorado, Inc.

Client Name: ATI-NM

Client Project ID: EPNG - Jaquez -- 602311

Lab Sample ID: 96-02-057-04

Sample Matrix: Water

Cleanup: N/A

Sample ID

960097

mw
R-4

Date Collected: 2-05-96

Date Extracted: 2-09-96

Date Analyzed: 2-14-96

Sample Volume: 1000 mL

Final Volume: 1 mL

Analyte	Conc (ug/L)	Detection Limit (ug/L)
Naphthalene	2.3	0.50
Acenaphthylene	ND	1.0
1-Methylnaphthalene	3.2	1.0
2-Methylnaphthalene	5.5	1.0
Acenaphthene	ND	1.0
Fluorene	0.60	0.10
Phenanthrene	0.59	0.050
Anthracene	ND	0.10
Flouranthrene	0.47	0.10
Pyrene	0.20	0.050
Benzo(a)anthracene	ND	0.050
Chrysene	ND	0.050
Benzo(b)fluoranthrene	ND	0.10
Benzo(k)fluoranthrene	ND	0.050
Benzo(a)pyrene	ND	0.050
Dibenzo(a,h)anthracene	ND	0.10
Benzo(g,h,i)perylene	ND	0.10
Indeno(1,2,3-c,d)pyrene	ND	0.10

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2-Chloroanthracene	73	15 - 117

ND = Not Detected at or above client requested detection limit.

PASS HLL
JF
2-26-96



Analytical Technologies, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS

Method 8310

Sample ID

Lab Name: Analytical Technologies of Colorado, Inc.

Client Name: ATI-NM

Client Project ID: EPNG - Jaquez -- 602311

Lab Sample ID: 96-02-057-05

960098

nw
R-5

Date Collected: 2-6-96

Date Extracted: 2-09-96

Date Analyzed: 2-14-96

Sample Matrix: Water

Cleanup: N/A

Sample Volume: 1000 mL

Final Volume: 1 mL

Analyte	Conc (ug/L)	Detection Limit (ug/L)
Naphthalene	ND	0.50
Acenaphthylene	ND	1.0
1-Methylnaphthalene	ND	1.0
2-Methylnaphthalene	ND	1.0
Acenaphthene	ND	1.0
Fluorene	ND	0.10
Phenanthrene	ND	0.050
Anthracene	ND	0.10
Flouranthrene	ND	0.10
Pyrene	ND	0.050
Benzo(a)anthracene	ND	0.050
Chrysene	ND	0.050
Benzo(b)fluoranthrene	ND	0.10
Benzo(k)fluoranthrene	ND	0.050
Benzo(a)pyrene	ND	0.050
Dibenzo(a,h)anthracene	ND	0.10
Benzo(g,h,i)perylene	ND	0.10
Indeno(1,2,3-c,d)pyrene	ND	0.10

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2-Chloroanthracene	64	15 - 117

ND = Not Detected at or above client requested detection limit.

1755
2-26-96



Analytical Technologies, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS

Method 8310

Sample ID

Lab Name: Analytical Technologies of Colorado, Inc.

Client Name: ATI-NM

Client Project ID: EPNG - Jaquez -- 602311

Lab Sample ID: 96-02-057-06

960099

mw

m-1

Sample Matrix: Water

Cleanup: N/A

Date Collected: 2-05-96

Date Extracted: 2-09-96

Date Analyzed: 2-14-96

Sample Volume: 1000 mL

Final Volume: 1 mL

Analyte	Conc (ug/L)	Detection Limit (ug/L)
Naphthalene	ND	0.50
Acenaphthylene	ND	1.0
1-Methylnaphthalene	ND	1.0
2-Methylnaphthalene	ND	1.0
Acenaphthene	ND	1.0
Fluorene	ND	0.10
Phenanthrene	ND	0.050
Anthracene	ND	0.10
Flouranthrene	ND	0.10
Pyrene	ND	0.050
Benzo(a)anthracene	ND	0.050
Chrysene	ND	0.050
Benzo(b)fluoranthrene	ND	0.10
Benzo(k)fluoranthrene	ND	0.050
Benzo(a)pyrene	ND	0.050
Dibenzo(a,h)anthracene	ND	0.10
Benzo(g,h,i)perylene	ND	0.10
Indeno(1,2,3-c,d)pyrene	ND	0.10

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2-Chloroanthracene	74	15 - 117

ND = Not Detected at or above client requested detection limit.

PASS
2-16-96



Analytical Technologies, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS

Method 8310

Lab Name: Analytical Technologies of Colorado, Inc.

Client Name: ATI-NM

Client Project ID: EPNG - Jaquez -- 602311

Lab Sample ID: 96-02-057-07

Sample Matrix: Water

Cleanup: N/A

Sample ID

960100

mw

m-2

Date Collected: 2-05-96

Date Extracted: 2-09-96

Date Analyzed: 2-14-96

Sample Volume: 1000 mL

Final Volume: 1 mL

Analyte	Conc (ug/L)	Detection Limit (ug/L)
Naphthalene	ND	0.50
Acenaphthylene	ND	1.0
1-Methylnaphthalene	ND	1.0
2-Methylnaphthalene	ND	1.0
Acenaphthene	ND	1.0
Fluorene	ND	0.10
Phenanthrene	ND	0.050
Anthracene	ND	0.10
Flouranthrene	ND	0.10
Pyrene	ND	0.050
Benzo(a)anthracene	ND	0.050
Chrysene	ND	0.050
Benzo(b)fluoranthrene	ND	0.10
Benzo(k)fluoranthrene	ND	0.050
Benzo(a)pyrene	ND	0.050
Dibenzo(a,h)anthracene	ND	0.10
Benzo(g,h,i)perylene	ND	0.10
Indeno(1,2,3-c,d)pyrene	ND	0.10

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2-Chloroanthracene	72	15 - 117

ND = Not Detected at or above client requested detection limit.

VHS
28
2-20-96



Analytical Technologies, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS

Method 8310

Sample ID

Lab Name: Analytical Technologies of Colorado, Inc.

Client Name: ATI-NM

Client Project ID: EPNG - Jaquez -- 602311

Lab Sample ID: 96-02-057-08

960101

mw

m-3

Date Collected: 2-05-96

Date Extracted: 2-09-96

Date Analyzed: 2-14-96

Sample Matrix: Water

Cleanup: N/A

Sample Volume: 1000 mL

Final Volume: 1 mL

Analyte	Conc (ug/L)	Detection Limit (ug/L)
Naphthalene	0.16 J	0.50
Acenaphthylene	ND	1.0
1-Methylnaphthalene	ND	1.0
2-Methylnaphthalene	ND	1.0
Acenaphthene	ND	1.0
Fluorene	ND	0.10
Phenanthrene	0.12	0.050
Anthracene	ND	0.10
Flouranthrene	0.16	0.10
Pyrene	0.053	0.050
Benzo(a)anthracene	ND	0.050
Chrysene	ND	0.050
Benzo(b)fluoranthrene	ND	0.10
Benzo(k)fluoranthrene	ND	0.050
Benzo(a)pyrene	ND	0.050
Dibenzo(a,h)anthracene	ND	0.10
Benzo(g,h,i)perylene	ND	0.10
Indeno(1,2,3-c,d)pyrene	ND	0.10

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2-Chloroanthracene	81	15 - 117

ND = Not Detected at or above client requested detection limit.

J = Estimated value.

J.F.
PASS
2-26-96



Analytical Technologies, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS

Method 8310

Sample ID

Lab Name: Analytical Technologies of Colorado, Inc.

Client Name: ATI-NM

Client Project ID: EPNG - Jaquez -- 602311

Lab Sample ID: 96-02-057-09

960102

m h

m -4

Date Collected: 2-05-96

Date Extracted: 2-09-96

Date Analyzed: 2-14-96

Sample Matrix: Water

Cleanup: N/A

Sample Volume: 1000 mL

Final Volume: 1 mL

Analyte	Conc (ug/L)	Detection Limit (ug/L)
Naphthalene	2.5	0.50
Acenaphthylene	ND	1.0
1-Methylnaphthalene	1.6	1.0
2-Methylnaphthalene	2.2	1.0
Acenaphthene	ND	1.0
Fluorene	0.29	0.10
Phenanthrene	0.077	0.050
Anthracene	ND	0.10
Flouranthrene	ND	0.10
Pyrene	ND	0.050
Benzo(a)anthracene	ND	0.050
Chrysene	ND	0.050
Benzo(b)fluoranthrene	ND	0.10
Benzo(k)fluoranthrene	ND	0.050
Benzo(a)pyrene	ND	0.050
Dibenzo(a,h)anthracene	ND	0.10
Benzo(g,h,i)perylene	ND	0.10
Indeno(1,2,3-c,d)pyrene	ND	0.10

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2-Chloroanthracene	81	15 - 117

ND = Not Detected at or above client requested detection limit.

AKS
2-20-96



Analytical Technologies, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS

Method 8310

Sample ID

Lab Name: Analytical Technologies of Colorado, Inc.

Client Name: ATI-NM

Client Project ID: EPNG - Jaquez -- 602311

Lab Sample ID: 96-02-057-10

960103

mw

m-5

Date Collected: 2-05-96

Date Extracted: 2-09-96

Date Analyzed: 2-14-96

Sample Matrix: Water

Cleanup: N/A

Sample Volume: 1000 mL

Final Volume: 1 mL

Analyte	Conc (ug/L)	Detection Limit (ug/L)
Naphthalene	ND	0.50
Acenaphthylene	ND	1.0
1-Methylnaphthalene	ND	1.0
2-Methylnaphthalene	ND	1.0
Acenaphthene	ND	1.0
Fluorene	ND	0.10
Phenanthrene	ND	0.050
Anthracene	ND	0.10
Flouranthrene	ND	0.10
Pyrene	ND	0.050
Benzo(a)anthracene	ND	0.050
Chrysene	ND	0.050
Benzo(b)fluoranthrene	ND	0.10
Benzo(k)fluoranthrene	ND	0.050
Benzo(a)pyrene	ND	0.050
Dibenzo(a,h)anthracene	ND	0.10
Benzo(g,h,i)perylene	ND	0.10
Indeno(1,2,3-c,d)pyrene	ND	0.10

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2-Chloroanthracene	40	15 - 117

ND = Not Detected at or above client requested detection limit.

J = Estimated value.

PASS 2-14-96
JF



Analytical Technologies, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS

Method 8310

Sample ID

Lab Name: Analytical Technologies of Colorado, Inc.

Client Name: ATI-NM

Client Project ID: EPNG - Jaquez -- 602311

Lab Sample ID: WRB1 02/09/96

Sample Matrix: Water

Cleanup: N/A

Reagent Blank

Date Collected: N/A

Date Extracted: 2-09-96

Date Analyzed: 2-13-96

Sample Volume: 1000 mL

Final Volume: 1 mL

Analyte	Conc (ug/L)	Detection Limit (ug/L)
Naphthalene	ND	0.50
Acenaphthylene	ND	1.0
1-Methylnaphthalene	ND	1.0
2-Methylnaphthalene	ND	1.0
Acenaphthene	ND	1.0
Fluorene	ND	0.10
Phenanthrene	ND	0.050
Anthracene	ND	0.10
Flouranthrene	ND	0.10
Pyrene	ND	0.050
Benzo(a)anthracene	ND	0.050
Chrysene	ND	0.050
Benzo(b)fluoranthrene	ND	0.10
Benzo(k)fluoranthrene	ND	0.050
Benzo(a)pyrene	ND	0.050
Dibenzo(a,h)anthracene	ND	0.10
Benzo(g,h,i)perylene	ND	0.10
Indeno(1,2,3-c,d)pyrene	ND	0.10

SURROGATE RECOVERY

Analyte	% Recovery	% Rec Limits
2-Chloroanthracene	82	15 - 117

ND = Not Detected at or above client requested detection limit.

Accepted
2-26-96



Analytical Technologies, Inc.

POLYNUCLEAR AROMATIC HYDROCARBONS BLANK SPIKE

Method 8310

Lab Name: Analytical Technologies of Colorado, Inc.

Lab Sample ID: WBS1,2 02/09/96

Client Name: ATI-NM

Date Extracted: 2-09-96

Client Project ID: EPNG - Jaquez -- 602311

Date Analyzed: 2-13-96

Sample Matrix: Water

Sample Volume: 1,000 mL

Cleanup: N/A

Final Volume: 1 mL

Analyte	Spike Added (ug/L)	BS Concentration (ug/L)	BS Percent Recovery	QC Limits % Rec
Acenaphthylene	10.0	6.15	61	23 - 122
Phenanthrene	1.00	0.757	76	34 - 112
Pyrene	1.00	0.679	68	35 - 116
Dibenzo(a,h)anthracene	1.00	0.751	75	33 - 123
Benzo(k)fluoranthene	0.250	0.231	93	39 - 119

Analyte	Spike Added (ug/L)	BSD Concentration (ug/L)	BSD Percent Recovery	RPD	QC Limits RPD
Acenaphthylene	10.0	6.32	63	3	20
Phenanthrene	1.00	0.785	78	4	20
Pyrene	1.00	0.698	70	3	20
Dibenzo(a,h)anthracene	1.00	0.806	81	7	20
Benzo(k)fluoranthene	0.250	0.260	104	12	20

SURROGATE RECOVERY BS/BSD

Analyte	% Recovery BS	% Recovery BSD	% Rec Limits
2-Chloroanthracene	85	90	15 - 117

Accepted
JP 2-26-96



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Analytical Technologies, Inc., Albuquerque, NM
San Diego • Phoenix • Seattle • Pensacola • Ft. Collins • Portland • Albuquerque

CHAIN OF CUSTODY

DATE: 2-5-96 PAGE 1 OF 3

ATI LAB I.D.

602311

PROJECT MANAGER: JOHN CAMPBELL

COMPANY: EL PASO FIELD SERVICE
ADDRESS: P.O. BOX 4990
FARMINGTON N.M. 87409
PHONE: 505-597-2144
FAX: 505-597-2261

BILL TO: JAME AS ABOVE
COMPANY: _____
ADDRESS: _____

ANALYSIS REQUEST

SAMPLE ID	DATE	TIME	MATRIX	LAB ID																				NUMBER OF CONTAINERS
					Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)	SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal	The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)	
960093	2-5-96	1020	WATER	-01											X									2
960094	2-5-96	1025	WATER	-02											X									2
960095	2-5-96	1120	WATER	-03											X									2
960097	2-5-96	1205	WATER	-04											X									2
960098	2-5-96	1220	WATER	-05											X									2
960099	2-5-96	1358	WATER	-06											X									2
960100	2-5-96	1410	WATER	-07											X									2
960101	2-5-96	1442	WATER	-08											X									2
960102	2-5-96	1529	WATER	-09											X									2

PROJECT INFORMATION

PROJ. NO.:	NO. CONTAINERS	20
PROJ. NAME: <u>JAVUEZ</u>	CUSTODY SEALS	Y KDA NA
P.O. NO.:	RECEIVED INTACT	Y
SHIPPED VIA: <u>AIR BORNE</u>	RECEIVED COLD	2°

SAMPLE RECEIPT

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments: Detection limits on Naphthalenes = 1 ppb
and Benzo(a) Pyrene = 0.5 ppb
CHARGE TO: 6000-6115-6115-515

SAMPLED & RELINQUISHED BY: 1. RELINQUISHED BY: 2. RELINQUISHED BY: 3.

Signature: <u>Dennis Bird</u>	Time: <u>1700</u>	Signature:	Time:	Signature:	Time:
Printed Name: <u>DENNIS BIRD</u>	Date: <u>2-5-96</u>	Printed Name:	Date:	Printed Name:	Date:
Company: <u>EL PASO FIELD SERVICE</u>	Phone: <u>505-597-2261</u>	Company:		Company:	

RECEIVED BY: 1. RECEIVED BY: 2. RECEIVED BY: (LAB) 3.

Signature:	Time:	Signature:	Time:	Signature: <u>Daniel Johnson</u>	Time: <u>11:03</u>
Printed Name:	Date:	Printed Name:	Date:	Printed Name: <u>Dan Johnson</u>	Date: <u>2-7-96</u>
Company:		Company:		Analytical Technologies, Inc.	



Analytical Technologies, Inc., Albuquerque, NM
San Diego • Phoenix • Seattle • Pensacola • Ft. Collins • Portland • Albuquerque

CHAIN OF CUSTODY

DATE: 2-5-96 PAGE 1 OF 2

ATI LAB I.D.

602311

PROJECT MANAGER: JOHN CAMBOLIN

COMPANY: EL PASO FIELD SERVICE
ADDRESS: P.O. BOX 4990
FARMINGTON N.M. 87499
PHONE: 505-599-2144
FAX: 505-599-2281

BILL TO: JANIS AS ABOVE
COMPANY: _____
ADDRESS: _____

ANALYSIS REQUEST

SAMPLE ID DATE TIME MATRIX LAB ID

960103 2-5-96 1539 WATER -10

Petroleum Hydrocarbons (418.1)	(MOD 8015) Gas/Diesel	Diesel/Gasoline/BTXE/MTBE (MOD 8015/8020)	BTXE/MTBE (8020)	Chlorinated Hydrocarbons (601/8010)	Aromatic Hydrocarbons (602/8020)	SDWA Volatiles (502.1/503.1), 502.2 Reg. & Unreg.	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)	SDWA Primary Standards - Arizona	SDWA Secondary Standards - Arizona	SDWA Primary Standards - Federal	SDWA Secondary Standards - Federal	The 13 Priority Pollutant Metals	RCRA Metals by Total Digestion	RCRA Metals by TCLP (1311)	NUMBER OF CONTAINERS
											X								2

PROJECT INFORMATION

PROJ. NO.: _____ NO. CONTAINERS 20
PROJ. NAME: JANIS CUSTODY SEALS Y NDNA
P.O. NO.: _____ RECEIVED INTACT Y
SHIPPED VIA: AIR BOAT RECEIVED COLD 20

SAMPLE RECEIPT

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒ 2 WEEK

Comments: DETECTION LIMITS ON NAPHTHALENE = 1 ppb
+ BENZO (A) PYRENE = 0.5 ppb
CHARGE TO: 6000-8115-8115-515

SAMPLED & RELINQUISHED BY: 1.

Signature: Dennis Bird Time: 1703
Printed Name: DENNIS BIRD Date: 2-5-96
Company: EL PASO FIELD SERVICE Phone: 599-2144

RELINQUISHED BY: 2.

Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

RELINQUISHED BY: 3.

Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

RECEIVED BY: 1.

Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

RECEIVED BY: 2.

Signature: _____ Time: _____
Printed Name: _____ Date: _____
Company: _____

RECEIVED BY: (LAB) 3.

Signature: Dennis Bird Time: 11:03
Printed Name: Dennis Bird Date: 2-7-96
Company: Analytical Technologies, Inc.

PLEASE FILL THIS FORM IN COMPLETELY. SHADED AREAS ARE FOR LAB USE ONLY.



Analytical Technologies of New Mexico, Inc.
Albuquerque, New Mexico

Interlab Chain of Custody

96-02-057

DATE: 2-7-96 PAGE: 1 OF 2

NETWORK PROJECT MANAGER: KIMBERLY D. McNEILL					ANALYSIS REQUEST																			
COMPANY: Analytical Technologies of New Mexico, Inc. ADDRESS: 2709-D Pan American Freeway, NE Albuquerque, NM 87107					Metals - TAL	Metals - PP List	Metals - RCRA	RCRA Metals by TCLP (1311)	TOX	TOC	Gen Chemistry	Oil and Grease	BOD	COD	Pesticides/PCB (608/8080)	Herbicides (615/8150)	Base/Neutral Acid Compounds GC/MS (625/8270)	Volatile Organics GC/MS (624/8240)	Polynuclear Aromatics (610/8310)	8240 (TCLP 1311) ZHE	8270 (TCLP 1311)	TO-14	Gross Alpha/Beta	NUMBER OF CONTAINERS
CLIENT PROJECT MANAGER: Kim McNeill																								
SAMPLE ID	DATE	TIME	MATRIX	LAB ID																				
602311-01	2-5-96	10:20	AQ	01															X					
-02		10:35		02															X					
-03		11:20		03															X					
-04		12:05		04															X					
-05		12:20		05															X					
-06		13:58		06															X					
-07		14:10		07															X					
-08		14:42		08															X					
-09		15:29		09															X					

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:		RELINQUISHED BY: 1.		RELINQUISHED BY: 2.	
PROJECT NUMBER:		TOTAL NUMBER OF CONTAINERS		SAN DIEGO		Signature:	Time:	Signature:	Time:
PROJECT NAME: EPN6 - Jaquez		CHAIN OF CUSTODY SEALS		FT. COLLINS	X	Printed Name:	Date:	Printed Name:	Date:
QC LEVEL: STD IV		INTACT?		RENTON		Signature:	Date:	Signature:	Date:
QC REQUIRED: MS MSD BLANK		RECEIVED GOOD COND./COLD		PENSACOLA		Printed Name:	Date:	Printed Name:	Date:
TAT: STANDARD RUSH		LAB NUMBER		PORTLAND		Company:		Company:	
				PHOENIX		Signature:	Time:	Signature:	Time:
						Printed Name:	Date:	Printed Name:	Date:
						Company:		Company:	
DUE DATE: 2-19-96		Detection Limits: Naphthalenes: 1ppb							
RUSH SURCHARGE:		Benzo(a)Pyrene: 0.5ppb							
CLIENT DISCOUNT: 15									
SPECIAL CERTIF		ON REQUIRED: YES NO							

CLIENT PROJECT MANAGER:

ANALYSIS REQUEST

[illegible]

PROJECT INFORMATION		SAMPLE RECEIPT		SAMPLES SENT TO:		RELINQUISHED BY:		RELINQUISHED BY:	
PROJECT NUMBER:		TOTAL NUMBER OF CONTAINERS		SAN DIEGO		Signature:	Time:	Signature:	Time:
PROJECT NAME: <u>EPNG-Iaguez</u>		CHAIN OF CUSTODY SEALS		FT. COLLINS	X	<u>Dan Johnson</u>	<u>17:00</u>		
QC LEVEL: <u>STD</u> IV		INTACT?		RENTON		Printed Name:	Date:	Printed Name:	Date:
QC REQUIRED: <u>MS</u> <u>MSD</u> <u>BLANK</u>		RECEIVED GOOD COND./COLD		PENSACOLA		<u>Dan Johnson</u>	<u>2-7-86</u>		
TAT: <u>STANDARD</u> RUSH!		LAB NUMBER		PORTLAND		Analytical Technologies of New Mexico, Inc. Albuquerque		Company:	<u>Feder</u>
				PHOENIX		RECEIVED BY:		1.	RECEIVED BY: (LAB)
						Signature:	Time:	Signature:	Time:
						Printed Name:	Date:	Printed Name:	Date:
						Company:		Company:	
DUE DATE: <u>2-19-86</u> Detection Limits: Naphthalenes: 1ppb									
RUSH SURCHARGE: <u>15</u> Benzo(a)Pyrene: 0.5ppb									
CLIENT DISCOUNT: <u>15</u>									
SPECIAL CERTIFICATE* REQUIRED: ☐ YES ☐ NO									



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PROJECT MANAGER: JOHN LAMBORN

COMPANY: EL PASO FIELD SERVICE

ADDRESS: P.O. BOX 4990
FARMINGTON N.M. 87401

PHONE: 505-599-2144

FAX: 505-599-2261

BILL TO: JIMMY M. HARRIS

COMPANY: _____

ADDRESS: _____

SAMPLE ID	DATE	TIME	MATRIX	LAB ID
960093	2-5-96	1020	WATER	
960094	2-5-96	1035	WATER	
960095	2-5-96	1120	WATER	
960097	2-5-96	1205	WATER	
960098	2-5-96	1220	WATER	
960099	2-5-96	1338	WATER	
960100	2-5-96	1410	WATER	
960101	2-5-96	1442	WATER	
960102	2-5-96	1529	WATER	

ANALYSIS REQUEST														NUMBER OF CONTAINERS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
Petroleum Hydrocarbons (418.1)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

PROJECT INFORMATION		SAMPLE RECEIPT	
PROJ. NO.:		NO. CONTAINERS	
PROJ. NAME: <u>JAYCEE</u>		CUSTODY SEALS	Y / N / NA
P.O. NO.:		RECEIVED INTACT	
SHIPPED VIA: <u>AIR BEAVE</u>		RECEIVED COLD	
PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS			
(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK		(NORMAL) ☒ 2 WEEK	
Comments: <u>Test for lead, copper, iron, manganese, and benzene, plus</u> <u>CHARGE TO: 50000-50000-50000</u>			

SAMPLED & RELINQUISHED BY: 1.		RELINQUISHED BY: 2.		RELINQUISHED BY: 3.	
Signature: <u>[Signature]</u>	Time: <u>1700</u>	Signature:	Time:	Signature:	Time:
Printed Name: <u>JOHN LAMBORN</u>	Date: <u>2-5-96</u>	Printed Name:	Date:	Printed Name:	Date:
Company: <u>EL PASO FIELD SERVICE</u>	Phone: <u>505-599-2144</u>	Company:		Company:	
RECEIVED BY: 1.		RECEIVED BY: 2.		RECEIVED BY: (LAB) 3.	
Signature:	Time:	Signature:	Time:	Signature:	Time:
Printed Name:	Date:	Printed Name:	Date:	Printed Name:	Date:
Company:		Company:		Analytical Technologies, Inc.	