

GW - 55

MONITORING REPORTS

DATE:

1996

BIO TECH REMEDIATION INC.

710 East 20th Street, Suite 400 • Farmington, NM 87401 • (505) 632-3365 • Fax (505) 632-9850

ANNUAL GROUND WATER MONITORING REPORT THRIFTWAY REFINERY 626 COUNTY ROAD 5500 BLOOMFIELD, NEW MEXICO

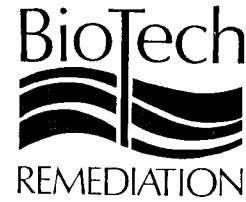
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Environmental Bureau
Oil Conservation Division

PREPARED FOR
THE NEW MEXICO OIL CONSERVATION DIVISION
MR. WILL OLSEN, PROJECT MANAGER, SANTA FE OFFICE
&
MR. DENNY FOUST, AZTEC OFFICE

APRIL 25, 1997



ANNUAL GROUND WATER MONITORING REPORT
THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO

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APRIL 25, 1997

BY
**BIOTECH REMEDIATION INC,
710 EAST 20TH ST., SUITE 400
FARMINGTON, NEW MEXICO 87401**

PREPARED BY:


ROSS KENEMER
PROJECT MANAGER

810\1996annl

TABLE OF CONTENTS

SECTIONS:

- 1.0 ANNUAL MONITOR REPORT INTRODUCTION
- 2.0 ANNUAL MONITORING AND REMEDIAL ACTIVITIES
- 3.0 SUMMARY OF GROUND WATER LABORATORY ANALYTIC RESULTS
- 4.0 DISCUSSION OF GROUND WATER ISOCONCENTRATION MAPS
- 5.0 SUMMARY OF FREE PRODUCT RECOVERY INFORMATION
- 6.0 DISCUSSION OF REWORK OF GROUND WATER TREATMENT EQUIPMENT
- 7.0 DISCUSSION AND RECOMMENDATIONS

FIGURES:

- 1A JUNE 4, 1996 GROUND WATER CONTOUR MAP
- 1B OCTOBER 7, 1996 GROUND WATER CONTOUR MAP
- 1C DECEMBER 31, 1996 GROUND WATER CONTOUR MAP
- 2A JUNE 4, 1996 BENZENE CONCENTRATION CONTOUR MAP
- 2B OCTOBER 7, 1996 BENZENE CONCENTRATION CONTOUR MAP
- 2C DECEMBER 31, 1996 BENZENE CONCENTRATION CONTOUR MAP
- 3A JUNE 4, 1996 PRODUCT THICKNESS CONTOUR MAP
- 3B OCTOBER 7, 1996 PRODUCT THICKNESS CONTOUR MAP
- 3C DECEMBER 31, 1996 PRODUCT THICKNESS CONTOUR MAP
- 4A DECEMBER 31, 1996 CONDUCTIVITY CONTOUR MAP
- 4B MARCH 17, 1997 CONDUCTIVITY CONTOUR MAP

TABLES:

- 1 GROUND WATER MONITORING/FREE PRODUCT RECOVERY DATA
- 2 SUMMARY OF LABORATORY ANALYSIS DATA

GRAPHS:

MONITORING WELL CONTAMINANT CONCENTRATIONS

APPENDICES:

- APPENDIX A ANALYTICAL LABORATORY REPORTS
QA/QC DATA
CHAIN OF CUSTODY RECORD
- APPENDIX B PHASE-SEPARATED PRODUCT RECOVERY LOGS

1.0 ANNUAL MONITOR REPORT INTRODUCTION

In compliance with Ground Water Discharge Plan GW-55 and pursuant to the requirements of the New Mexico Oil Conservation Division (NMOCD), BioTech Remediation, Inc., (BioTech) on behalf of Thriftway Company, submits the following Annual Monitoring and Sampling Report for 1996 for the Thriftway Refinery, 626 County Road 5500, Bloomfield, New Mexico.

This report summarizes the monitoring and sampling activities, the compiled laboratory data and the phase-separated product recovery activities for ground water monitoring wells located at the facility. An updated report of the performance of the ground water extraction and treatment system is provided as well.

2.0 ANNUAL MONITORING AND REMEDIAL ACTIVITIES

BioTech personnel have completed the monitoring and sampling requirements for the last three Quarterly Monitoring events in 1996. Ground water monitoring well measurements and sampling procedures strictly followed methods described in previous reports. This report is a summary of activities from March through December 31, 1996, and is the First Annual Report under the most recent Ground Water Discharge Permit.

Summaries of the ground water measurement data, including measurements of phase-separated product and laboratory analysis data are provided in Tables 1 and 2, respectively. Copies of laboratory analyses reports, QA/QC Documentation, and Chain-of-Custody Records are provided in Appendix A. Phase-separated product recovery field logs are in Appendix B.

Special activities outside of the normal sampling and monitoring include: 1) abandonment of the injection wells due to poor performance; 2) replacement of the discharge line from the air stripper; and 3) reworking of the air stripper at the refinery to improve performance.

The poor performance of the injection wells or infiltration galleries is attributed to the high concentrations of dissolved solids present within the treatment stream, which resulted in severe fouling of the injection system. This further resulted in decreasing the rate of water which could be extracted and treated, due to the limited discharge capabilities. Paramount in the decision to abandon the injection system was the observable lack of ground water mounding in specific areas. As noted in many previous reports, the mounding of treated ground water functions as to provide a "hydraulic push" in the up-gradient portion of the facility's contaminant plume. That is, the performance of the ground water interceptor or collection system is a function of the ability to achieve a ground water mound in strategic locations, realizing the described push.

In discontinuing use of the injection system, a new discharge line was installed to the fire water pond, replacing the line which had been installed during initial construction. This replacement was justified by the assurance that the new line was "tight" where as the condition of the replaced line was unknown.

The most significant and important modification to the water treatment system was the complete overhaul and performance upgrading of the air stripper. The stripper was changed from a one tray, thin film, two pass operation to a two tray, thin film, four pass air stripper. This was done to increase the reliability of the stripper with regards to contaminant removal and volume ability and extend the time between manual cleaning and reduce the number of times for startup after manual cleaning.

3.0 SUMMARY OF GROUND WATER LABORATORY ANALYTIC RESULTS

The air stripper, which is used to remove dissolve-phase contamination from ground water during the pump and treat remediation process, has exhibited problems when the water flow to the stripper is increased, to compensate for increased water recovery by the system. Samples collected during most of the operational period showed performance was strapped when the water flow to the stripper was sufficient to depress the water table in the area of the french drain. This data is reported in the cumulative summary in Table 2. The laboratory reports and associated documentation for these analysis are provided in Appendix A.

Due to the excessive dissolved solids contained in the ground water, an acid injection system was set in place and is operational; however, it is not sufficient to keep the stripper tray free of scale buildup. Therefore, a periodic hand cleaning of the tray is required to maintain efficiency. Following this down time, which usually occurs once every other month, several thousand gallons of water must pass through the stripper and adjustments must be made before peak efficiency is again realized. Laboratory analysis of the effluent, during the system startup, indicate benzene levels which slightly exceed regulatory levels.

The slight increase in benzene concentration in MW-04 and MW-05 indicate reduced capture from past sampling events. MW-18 also indicates an increase in benzene concentration over the previous sampling event. Although there has been an increase in benzene concentration in these three wells, it is believed they will return to previous levels as the stripper continues to work at reducing the excess water buildup in the area. If the water continues to overwhelm the stripper capacity for water removal after the initial runoff in May and June, BioTech will review the operation with the OCD and adjustments or changes will be made in the air stripper operation.

4.0 DISCUSSION OF GROUND WATER ISOCONCENTRATION MAPS

Figures 1A thru 1C depict the changes in the elevation of the water table over the past year. Figures 2A thru 2C show the benzene concentration in the ground water at the refinery. Figures 3A thru 3C show the location of free product on the ground water at the refinery. Figure 4A is new to the reporting information base and will be included in future discussions to illustrate the water conductivity of the ground water at the site.

The ground water elevation data shows no capture along the north edge of the refinery for the end of 1996. This is due to the reduced water flow to the air stripper during that period. Although small, there is an increase in the benzene concentration of MW-04, 05, 18 and 19. These wells are all located along the north and west edge of the refinery.

The laboratory analysis for the last three quarters of 1996 are summarized on Table 2 and monitoring well contaminant data is also presented in graphic form, located in the Graphs Section.

The benzene concentration map for each quarter is provided in Figures 2A to 2C. There has been minor spreading of contamination during 1996. BioTech believes this is due to the increased water flow in the ground water beneath the refinery at the end of 1996 and the reduced flow to the air stripper during the same period. The slowing of the recharge to the ground water table should allow the air stripper to catch-up and pull the contamination back on site.

5.0 SUMMARY OF FREE PRODUCT RECOVERY INFORMATION

Table 1 lists the recovery of product from various points throughout the refinery. During the last three quarters of 1996, no appreciable amount of product was removed from the UST at the air stripper. This was due to the inability to operate the air stripper at a flow rate high enough to overcome the recharge to the ground water table and draw oil into the recovery trench. It is fully expected that the reduced product recovery will be fully mitigated by the modifications that have been made to the air stripper, which will allow increased extraction rates. This will result in increased flow to the point of ground water extraction, thereby increasing the volume of product available for recovery.

6.0 DISCUSSION OF REWORK OF GROUND WATER TREATMENT EQUIPMENT

The Thriftway Refinery ground water stripper has been unable to accommodate the volume of water coming into the refinery recovery trench. This results from down time caused by epoxy coating failure inside the stripper, breakdown of the stripper perforated tray, excessive calcification of the tray due to high dissolved solids in the water, bearing failure of the blower motor, failure of the injection pump motor due to the corrosive atmosphere in the air stripper building, and subsequent plugging of the injection pump and ancillary equipment.

The solids lay down (calcification) is caused by precipitation of calcium carbonate and other mineral salts created by the introduction of air into the water. Historically, the observed calcification of the pump impeller causes pump seal failure which acts to plug discharge lines and valves and as previously noted, rendered the injection gallery useless.

In combating the water quality problem, BioTech has replaced or repaired the following during 1996 and the first quarter of 1997:

- > The entire water injection line from the air stripper to the refinery fire water pond.
- > The air stripper was sand blasted and coated inside and out with a special hydrocarbon resistant epoxy material that will stand up under hydrocarbon attack and pH swings.
- > The injection pump.
- > The air stripper motor.
- > An acid injection system has been placed on line to reduce the calcification problem.
- > The original air stripper tray was damaged due to the need to mechanically and chemically clean it on a regular basis. All the original stripper perforated plate material has been removed including the tray seal area and inlet piping. The stripper has been reworked to include two trays. The description of that rework is discussed below.

After the old tray was removed from the stripper, the stripper was measured to insure there would be adequate room for an additional tray. Although the stripper only allows a nine (9) inch spacing between trays, this is sufficient space for foam and entrained water to disengage from the air passing through the new trays. A three inch by one-fourth inch angle iron frame was installed as a tray support. This support is distributed along the entire perimeter of the trays and a 1/4 inch

foam/adhesive backed gasket was installed between the tray and the angle iron, as a seal between the iron and the stripper wall.

The new trays were created from 3/16 inch Lexan Plastic. The tray support materials were bolted in and a seal gasket was placed between all surfaces. The tray support material was epoxy coated to reduce corrosion. The bolts holding the supports are all stainless steel and the trays were pop riveted to the tray supports with stainless steel pop rivets. The tray perforations which are 3/16 inch, are laid out in a triangular pattern.

Currently 3.0 to 4.0 gpm of water is being charged to the air stripper. This reduced rate is necessary because of the reducted capacity of the air stripper to accept higher water flow rates and meet the NMWQCC regulations. The existing air blower has a capacity of approximately 12 inches of water pressure at the rated capacity of 250 cubic feet per minute. The last check of the performance of the air blower revealed it was only operating at five inches of water pressure. This could explain why the stripper is only able to handle a fraction of its original design capacity of five to ten gallons per minute. Under normal conditions this rate would be sufficient to contain the ground water plume on the refinery site. However, there has been an increase in runoff from the north, south, and east of the refinery site which has increased the flow of water under the refinery property. At the writing of this report, BioTech is in the process of replacing the existing blower with one which is much larger.

7.0 DISCUSSION AND RECOMMENDATIONS

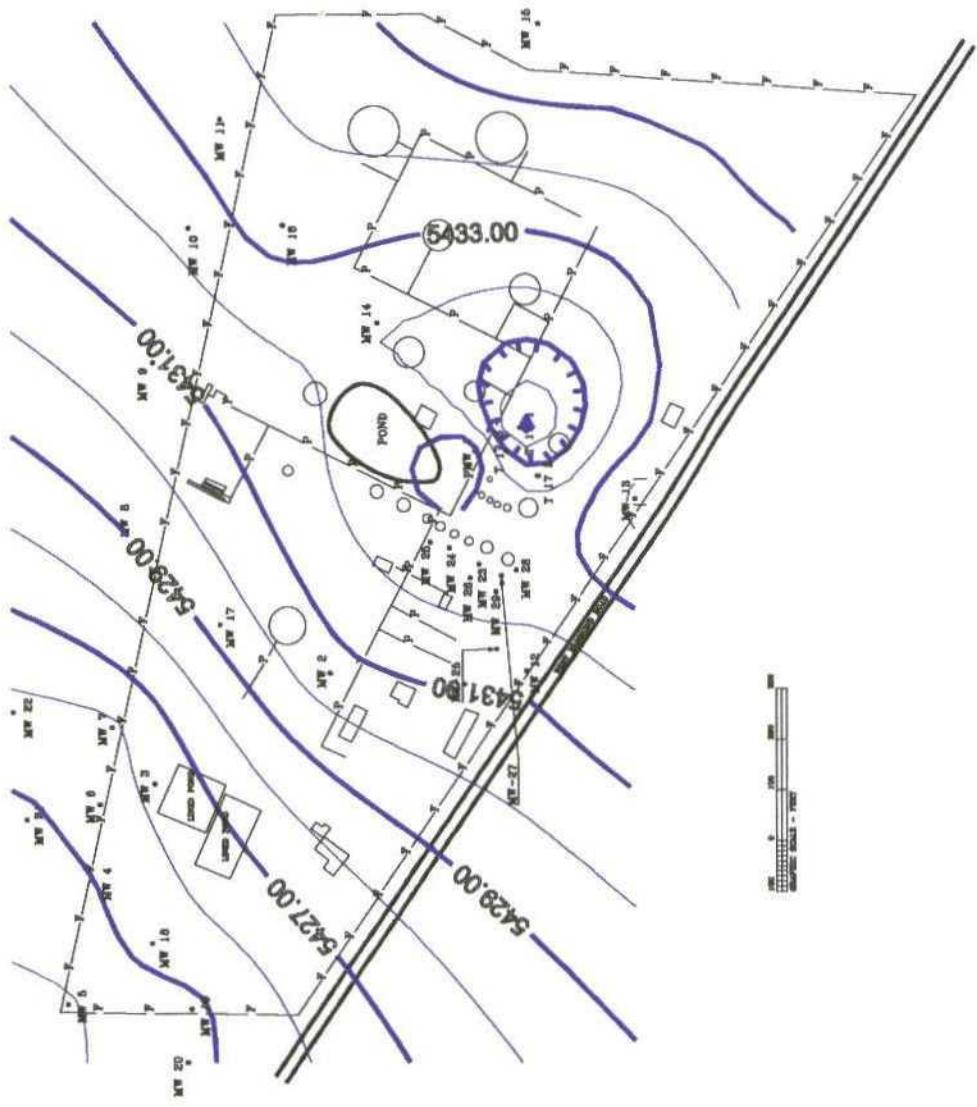
The plots of ground water elevation, contaminant concentration, and free product indicate inadequate capture at the refinery property line to contain the spread of contamination and free product. It is believed that the reason for this is the down time the stripper has experienced during the latter part of 1996. The phase-separated product removal operation is continuing on a bi-monthly schedule. No significant changes in the different plumes have occurred during the past six-months.

The air stripper operation remains adequate after the recent changes; however, a larger air blower is planned to be installed on the stripper to insure an adequate air flow rate and pressure, in the event it becomes necessary to increase water flow to the stripper. A performance test run will be made after the larger blower is installed to provide a baseline for future performance evaluations. The OCD will be notified when the blower is to be changed out and the test run is scheduled.

In reviewing the cumulative data contained within this report and previously submitted data, BioTech concludes that with the modifications and upgrades made to the ground water extraction and treatment system in late 1996 and early 1997, contaminant plume containment will soon be again evident and further, that plume reduction as well as reductions in contaminant concentrations will be realized.

Therefore, BioTech on behalf of Thriftway Company, recommend that the monitoring and sampling schedule continue through 1997, as established in the renewal of GW-55, and that the ground water treatment system be operated as described within this annual report.

FIGURES

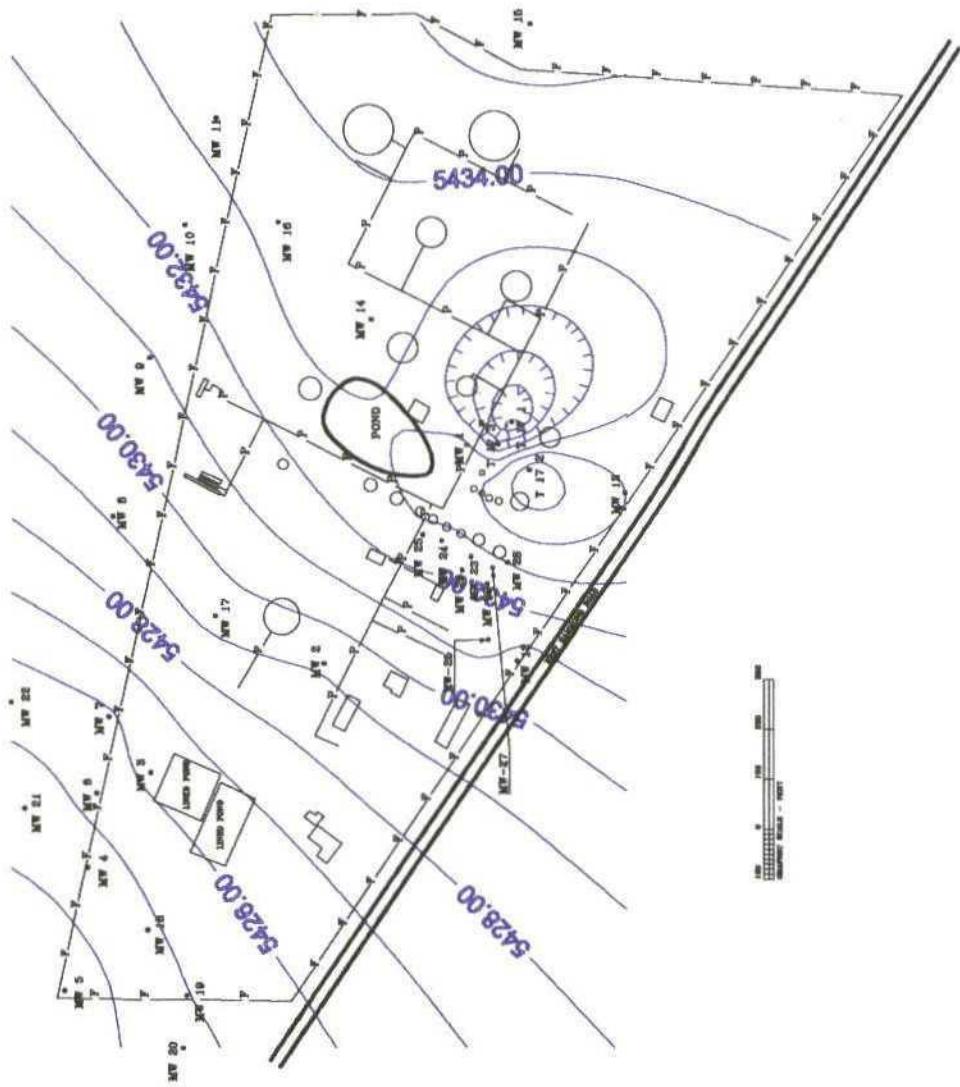


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SCIENTIST: R. KENNEMER
DRAWN BY: K. SINKS
FIGURE 1A WATER LEVEL
CONTOUR MAP
JUNE 4, 1996

THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO



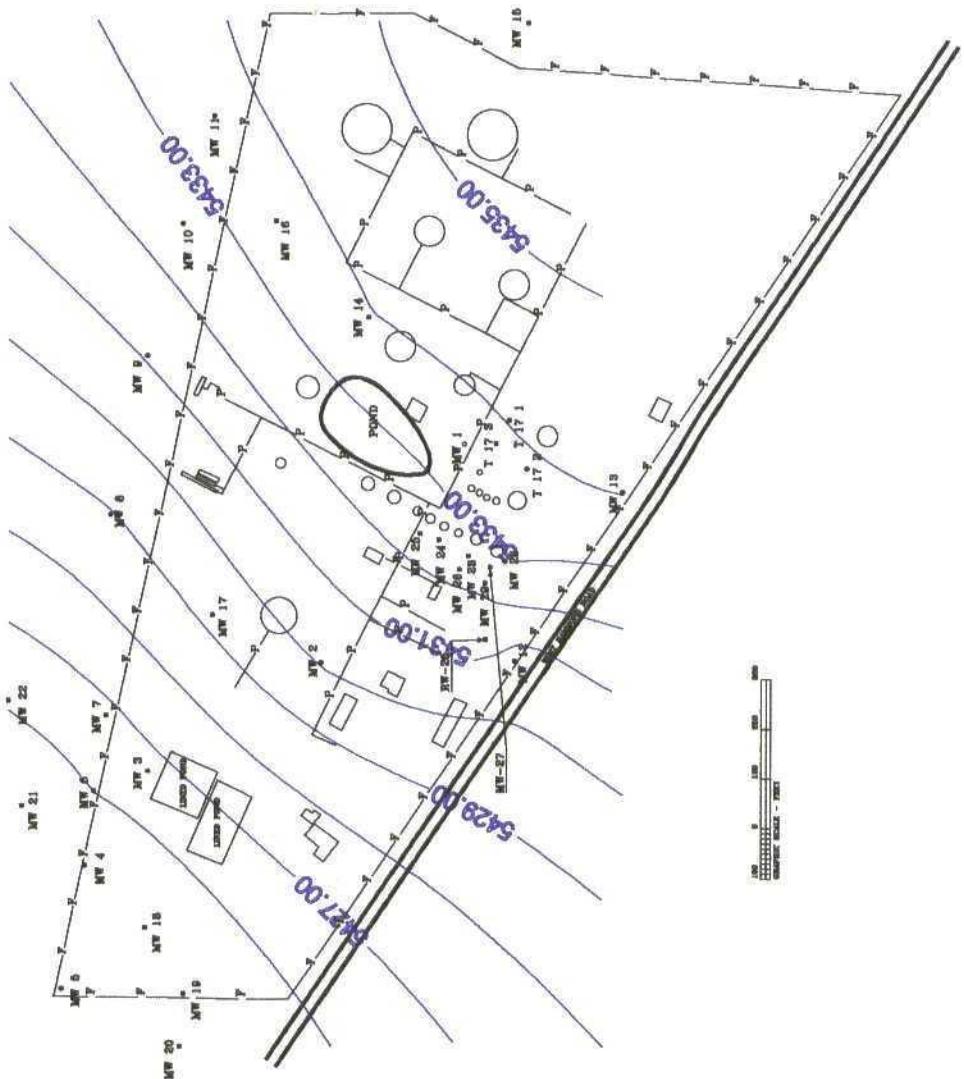
THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO

610\1007961.SRW

SCIENTIST: R. KENNEMER
DRAWN BY: K. SINKS
FIGURE 1B WATER LEVEL
CONTOUR MAP
OCTOBER 7, 1996



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KEY

THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO

SCIENTIST: R. KENNEMER
DRAWN BY: K. SINKS
FIGURE 1C WATER LEVEL
CONTOUR MAP
DECEMBER 31, 1996



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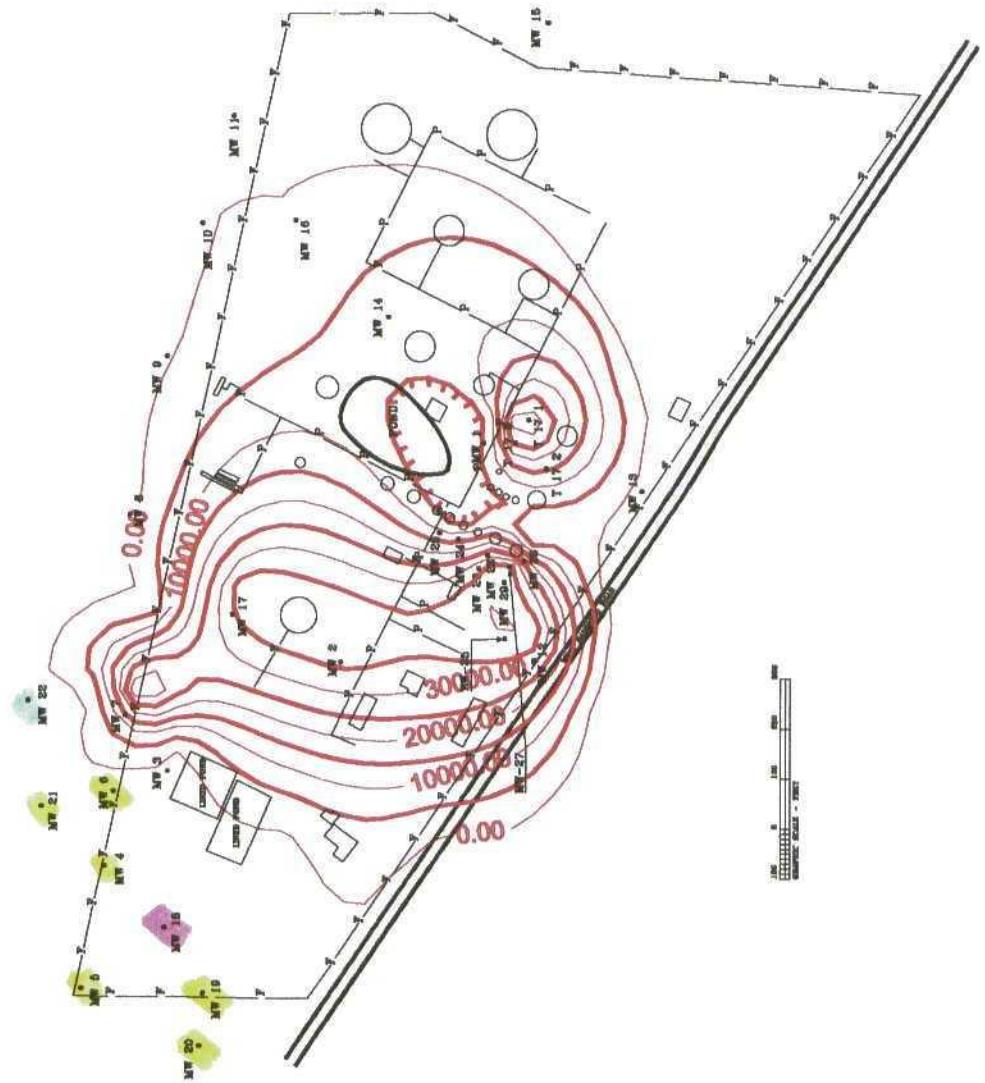


SCIENTIST: R. KENNEMER
DRAWN BY: K. SINKS
FIGURE 2A BENZENE CONC.
CONTOUR MAP
JUNE 4, 1996

THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO
B10\060406HZ.SRD



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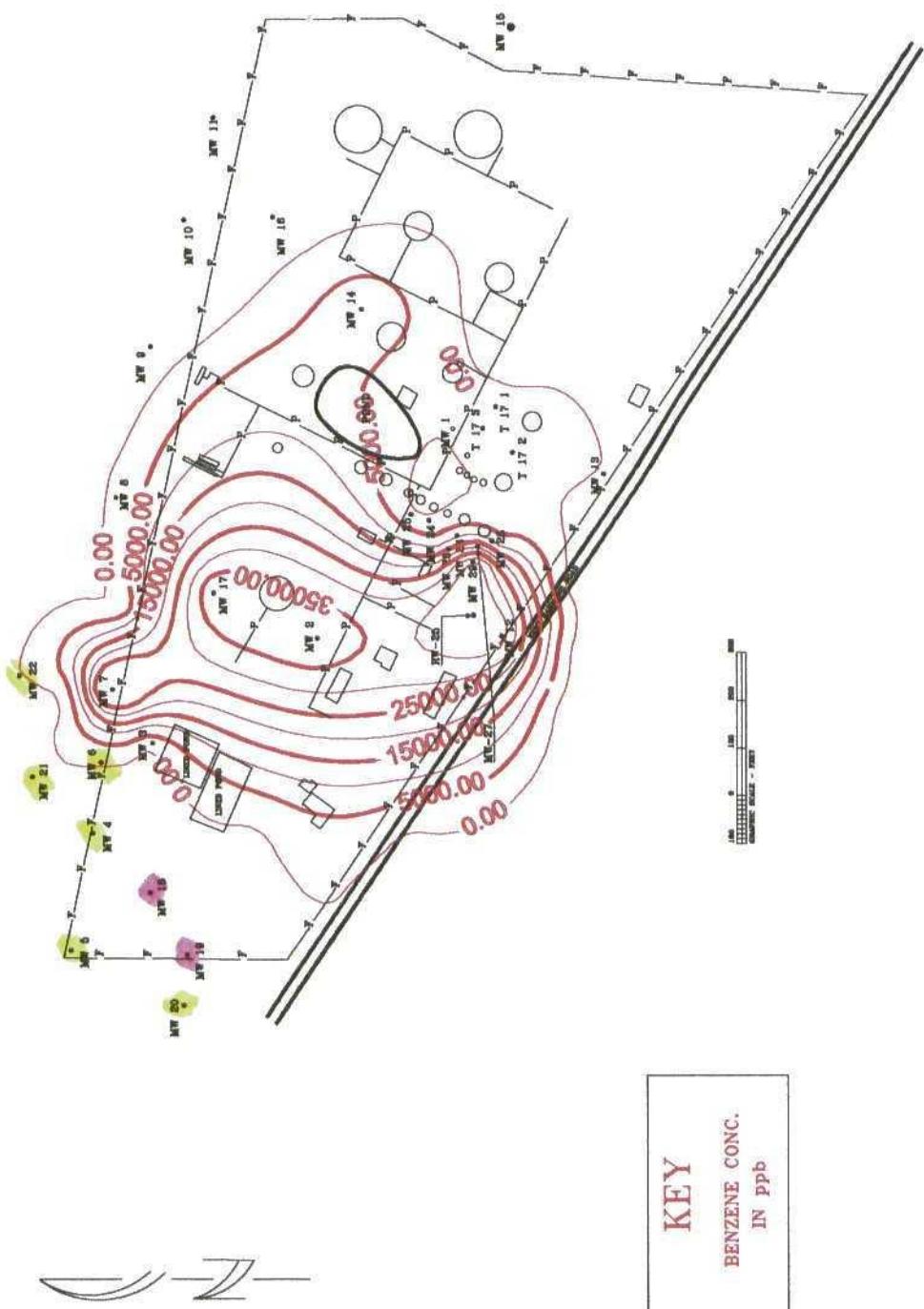
KEY
BENZENE CONC.
IN ppb

THIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO
8101007988Z.SKD

SCIENTIST: R. KENNEMER
DRAWN BY: K. SINKS
FIGURE 2B BENZENE CONC.
CONTOUR MAP
OCTOBER 7, 1996



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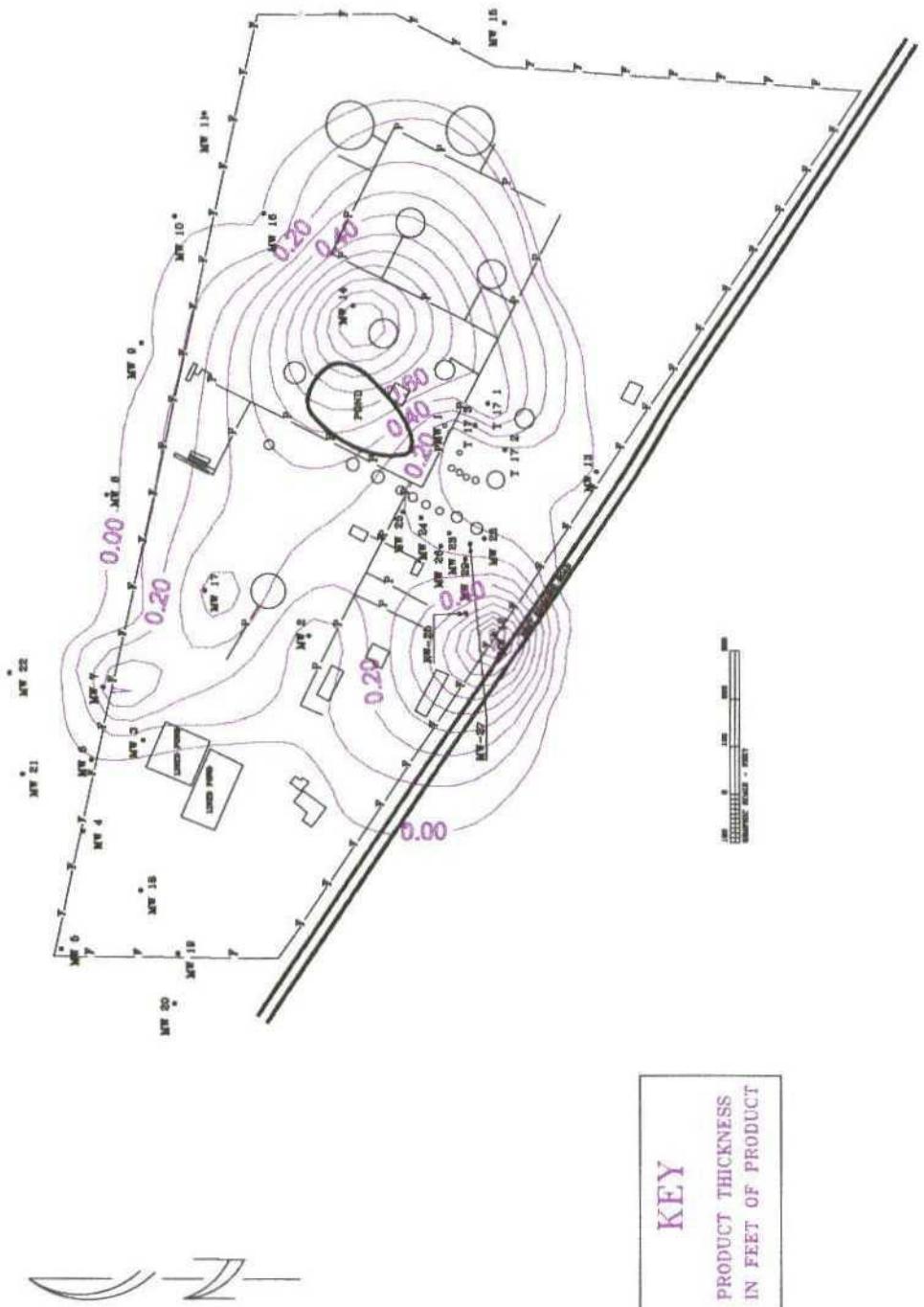
KEY
BENZENE CONC.
IN ppb

THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO

SCIENTIST: R. KENNEMER
DRAWN BY: K. SINKS
FIGURE 2C BENZENE CONC. CONTOUR MAP



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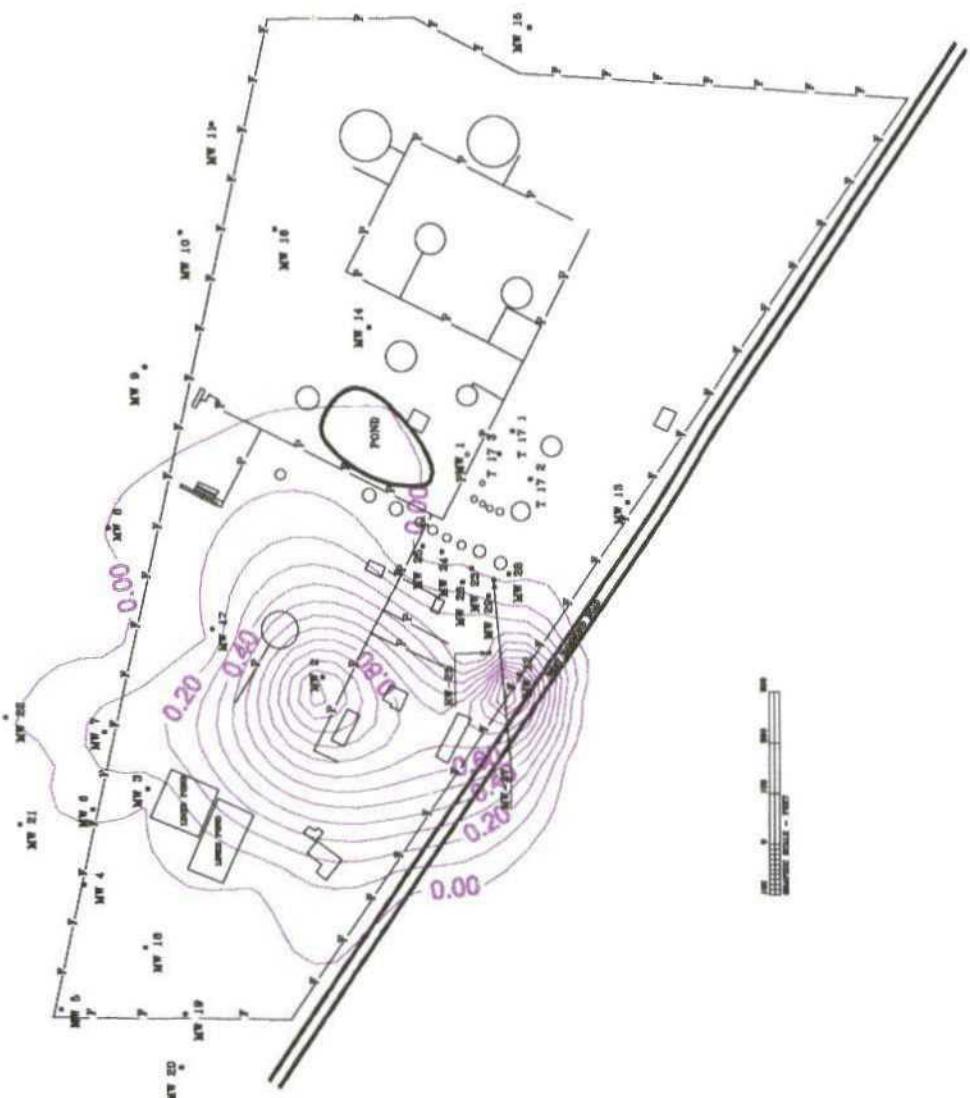


SCIENTIST: R. KENNEMER
DRAWN BY: K. SINKS
FIGURE 3A PRODUCT CONTOUR MAP
JUNE 4, 1996

THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO
810\080498P.LSKD



710 EAST 20TH STREET, SUITE 400
FARMINGTON, NEW MEXICO 87401
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KEY
PRODUCT THICKNESS
IN FEET OF PRODUCT

THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO
810\100790PLSKD

SCIENTIST: R. KENNEMER
DRAWN BY: K. SINKS
FIGURE 3B PRODUCT CONTOUR MAP
OCTOBER 7, 1996



710 EAST 20TH STREET, SUITE 400
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KEY

PRODUCT THICKNESS
IN FEET OF PRODUCT

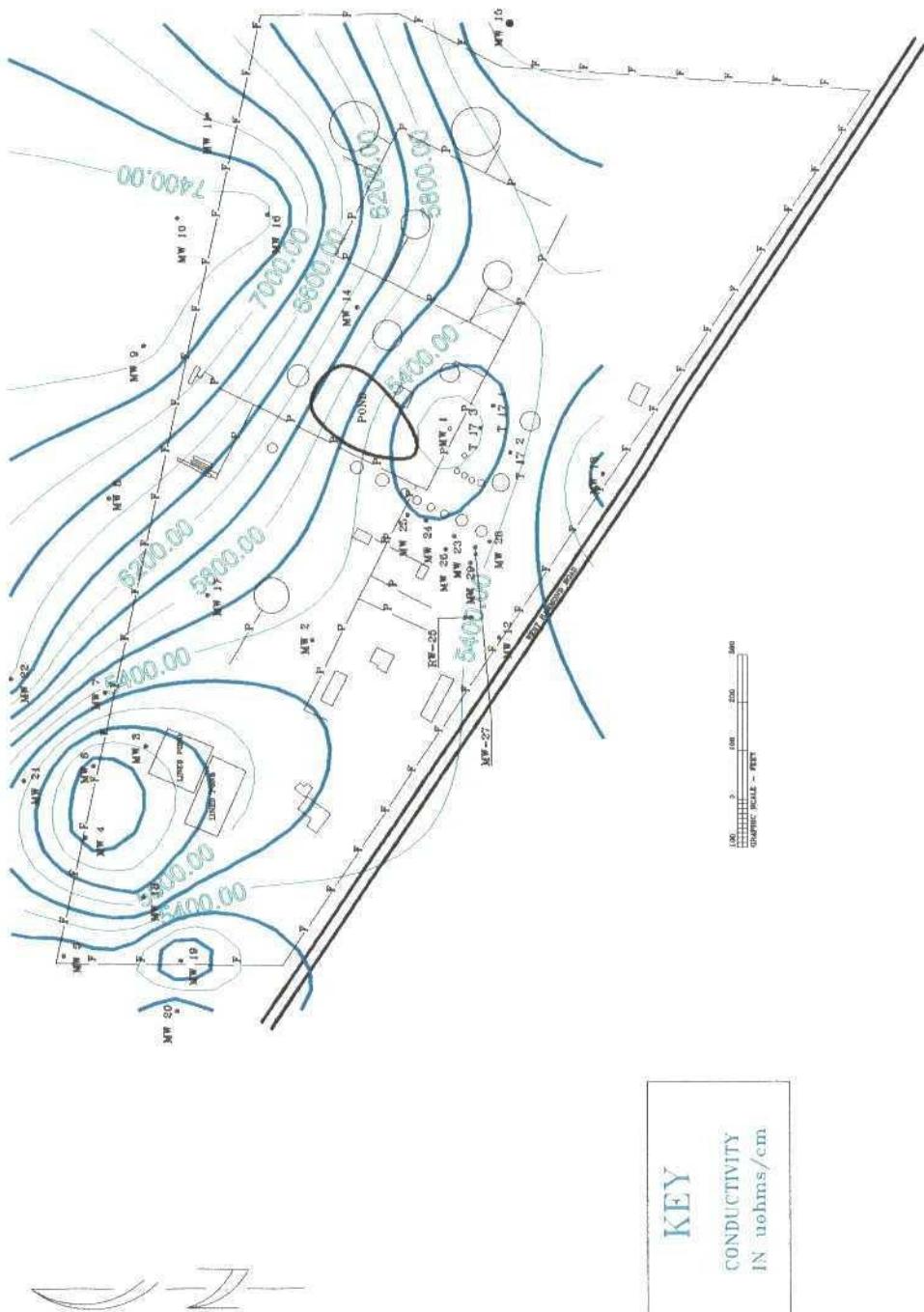
THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO

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SCIENTIST: R. KENNEMER
DRAWN BY: K. SINKS
FIGURE 3C PRODUCT CONTOUR
DECEMBER 31, 1996



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KEY

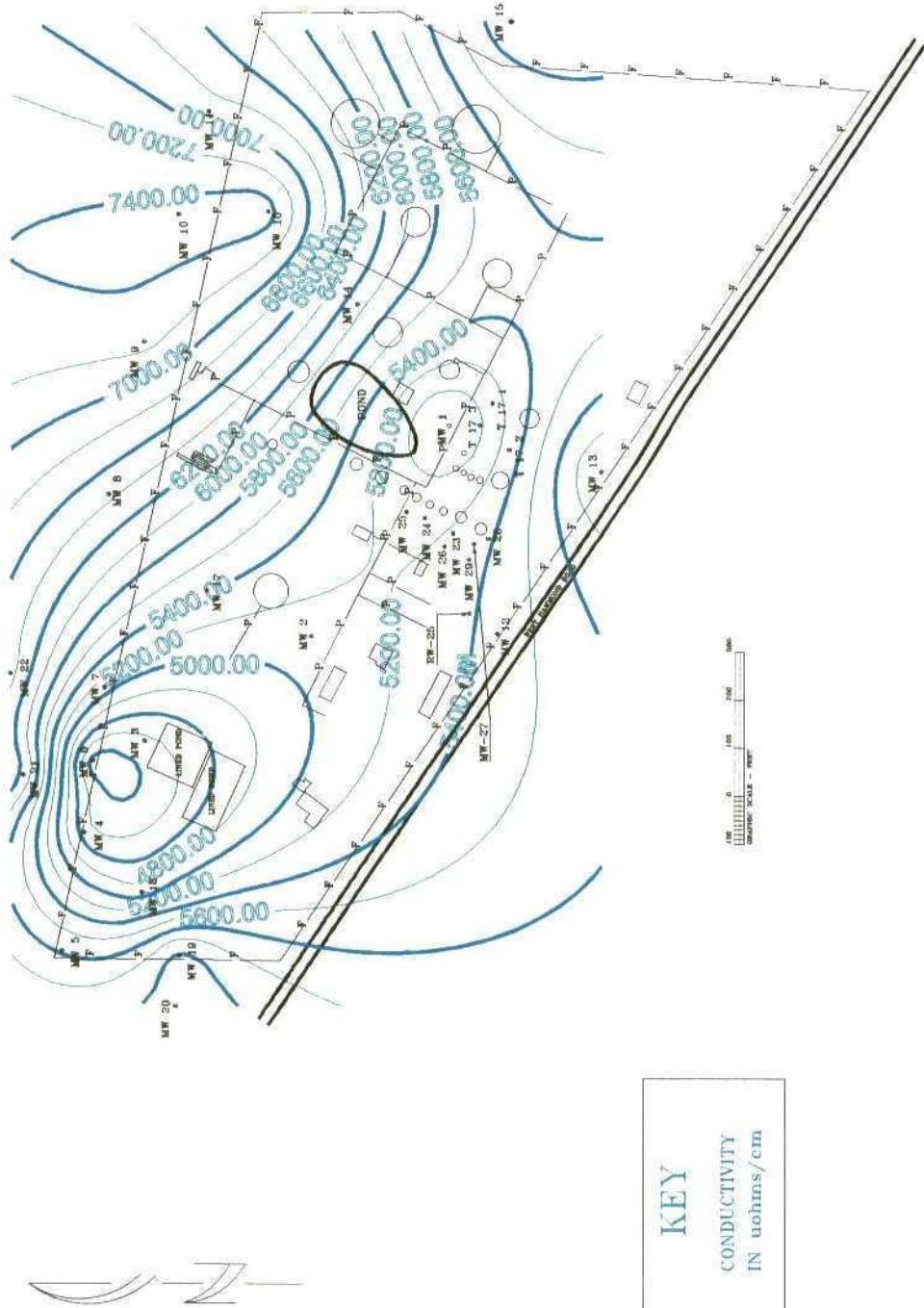
CONDUCTIVITY
IN ohms/cm

THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO

SCIENTIST: R. KENNEMER
DRAWN BY: K. SINKS
FIGURE 4A CONDUCTIVITY CONTOUR MAP

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DEMERITATION



SCIENTIST: R. KENNEMER
DRAWN BY: K. SINKS
FIGURE 4B CONDUCTIVITY
CONTOUR MAP
MARCH 17, 1997

THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO

610\631797FL.SKU



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TABLES

TABLE 1
THRIFTWAY REFINERY
SUMMARY OF GROUND WATER MONITORING DATA

WELL #	DATE	TIME	TOP OF PIPE ELEVATION	AIR/OIL INTERFACE (feet)	WATER OUTAGE (feet)	PRODUCT THICKNESS (feet)	WATER LEVEL ELEVATION (feet)	ACCUMULATED PRODUCT (gallons)	CONDUCTIVITY uohms/cm	OXYGEN CONTENT ppm
1	04/19/95	10:10	114.08		15.52	1.83	98.56	0.79		
1	08/24/95	18:30	114.08		16.1	1.47	97.98	1.32		
1	11/12/95	11:55	114.08		15.41	1.08	98.67	1.66		
1	03/05/96	14:10	5449.08	15.10	15.19	0.09	5433.89	1.66		
1	05/31/96		5449.08	15.29	15.31	0.02	5433.77	1.66		
1	10/07/96	13:37	5449.08	15.68	15.68	0.00	5433.40	1.66		
1	12/31/96	16:10	5449.08	15.62	15.62	0.00	5433.46	1.66		
1	03/19/97	00:00	5449.08	15.65	15.65	0.00	5433.43	1.66		
2	04/12/95	10:10	107.62		11.57		96.05			
2	08/24/95	17:25	107.62		11.80		95.82			
2	11/12/95	10:00	107.62		11.99		95.63			
2	03/05/96	12:40	5442.65	11.85	11.85	0.00	5430.80			
2	06/04/96		5442.65	12.00	12.00	0.00	5430.65			
2	10/09/96	15:30	5442.65	12.16	13.50	1.34	5429.15	0.20		
2	12/30/96		5442.65	12.35	12.54	0.19	5430.11	0.35		
2	03/17/97		5442.65	12.18	12.37	0.19	5430.28	0.37		
3	04/12/95	08:36	96.28		5.21		91.07			
3	08/24/95	17:00	96.28		4.33		91.95			
3	11/12/95	10:20	96.28		4.49		91.79			
3	03/05/96	12:15	5431.43	5.13	5.13	0.00	5426.30			
3	06/04/96		5431.43	5.22	5.22	0.00	5426.21	0.00		
3	10/09/96	15:00	5431.43	5.17	5.17	0.00	5426.26	0.00		
3	12/31/96	15:45	5431.43	4.60	4.72	0.12	5426.71	0.01		
3	03/17/97	-	5431.43	3.44	3.44	0.00	5427.99	0.01		
4	04/11/95	16:30	95.82		4.62		91.20			
4	08/28/95	16:45	95.82		5.13		90.69			
4	11/12/95	10:40	95.82		4.92		90.90			
4	03/05/96	11:45	5430.12	5.10	5.10	0.00	5425.02			
4	06/04/96		5430.12	5.18	5.18	0.00	5424.94	0.00		
4	10/09/96	10:40	5430.12	5.62	5.62	0.00	5424.50	0.00		
4	12/31/96	12:00	5430.12	5.18	5.18	0.00	5424.94	0.00		
4	03/19/97	00:00	5430.12	4.28	4.28	0.00	5425.84	0.00		
									4270	2.70
									4450	N/A

TABLE 1
THRIFTWAY REFINERY
SUMMARY OF GROUND WATER MONITORING DATA

WELL #	DATE	TIME	TOP OF PIPE ELEVATION	AIR/OIL INTERFACE (feet)	WATER OUTAGE (feet)	PRODUCT THICKNESS (feet)	WATER LEVEL ELEVATION (feet)	ACCUMULATED PRODUCT (gallons)	CONDUCTIVITY uohms/cm	OXYGEN CONTENT ppm
5	04/11/95	15:40	94.66		4.33		90.33			
5	08/28/95	16:20	94.66		5.25		89.41			
5	11/12/95	09:40	94.66		5.03		89.63			
5	03/05/96	11:20	5428.97	4.91	4.91	0.00	5424.06			
5	06/04/96		5428.97	5.10	5.10	0.00	5423.87	0.00		
5	10/09/96	11:20	5428.97	5.55	5.55	0.00	5423.42	0.00		
5	12/31/96	11:30	5428.97	5.19	5.19	0.00	5423.78	0.00		
5	03/19/97	00:00	5428.97	4.63	4.63	0.00	5424.34	0.00		
6	04/12/95	12:45	96.31		4.72		91.59			
6	08/24/95	16:50	96.31		4.59		91.72			
6	11/12/95	10:50	96.31		5.46		90.85			
6	03/05/96	11:55	5430.7	4.95	4.95	0.00	5425.75			
6	06/04/96		5430.7	5.07	5.07	0.00	5425.63	0.00		
6	10/09/96	10:25	5430.7	5.28	5.28	0.00	5425.42	0.00		
6	12/31/96		5430.7	4.65	4.65	0.00	5426.05	0.00		
6	03/19/97	907	5430.7	3.65	3.65	0.00	5427.05	0.00		
7	04/12/95	09:30	96.79		8.09		88.70			
7	08/24/95	17:10	96.79		7.82		88.97			
7	11/12/95	10:55	96.79		8.11		88.68			
7	03/05/96	14:25	5434.34	7.45	7.89	0.44	5426.45	0.00		
7	05/31/96		5434.34	8.07	8.56	0.49	5425.78	0.06		
7	10/07/96		5434.34	8.29	8.50	0.21	5425.84	0.27		
7	12/30/96		5434.34	7.54	7.54	0.00	5426.80	0.27		
7	03/19/97	1527	5434.34	6.55	6.55	0.00	5427.79	0.27		
8	04/11/95	13:21	97.04		3.00		94.04			
8	08/24/95		97.04		DRY		DRY			
8	11/12/95	1350	97.04		DRY		DRY			
8	03/05/96		5432.09		DRY		DRY			
8	06/03/96		5432.09	Well silted in to 3.80 ft.	DRY	0.00	DRY	0.00		
8	10/08/96		5432.09	Well silted in to 3.80 ft.	DRY	0.00	DRY	0.00		
8	12/31/96	15:30	5432.09	3.14	3.14	0.00	5428.95	0.00		
8	03/18/97	1500	5432.09	2.93	2.93	0.00	5429.16	0.00		
							PRODUCT N/A	PRODUCT N/A	NM N/A	

TABLE 1
THRIFTWAY REFINERY
SUMMARY OF GROUND WATER MONITORING DATA

WELL #	DATE	TIME	TOP OF PIPE ELEVATION	AIR/OIL INTERFACE (feet)	WATER OUTAGE (feet)	PRODUCT THICKNESS (feet)	WATER LEVEL ELEVATION (feet)	ACCUMULATED PRODUCT (gallons)	CONDUCTIVITY uohms/cm	OXYGEN CONTENT ppm
9	04/11/95	13:02	100.16	4.20					95.96	
9	08/24/95	10:35	100.16	4.47					95.69	
9	11/12/95	13:40	100.16	4.21					95.95	
9	03/05/96	08:45	5435.19	4.09	4.09	0.00			5431.10	
9	06/03/96		5435.19	4.42	4.42	0.00			5430.77	0.00
9	10/08/96	15:30	5435.19	4.25	4.25	0.00			5430.94	0.00
9	12/31/96	15:10	5435.19	4.10	4.10	0.00			5431.09	0.00
9	03/18/97	1413	5435.19	4.17	4.17	0.00			5431.02	0.00
10	04/11/95	11:32	101.55	4.05					97.50	
10	08/24/95	10:30	101.55	4.31					97.24	
10	11/12/95	14:00	101.55	4.04					97.51	
10	03/05/96	08:20	5436.56	3.95	3.95	0.00			5432.61	
10	06/03/96		5436.56	4.25	4.25	0.00			5432.31	0.00
10	10/08/96	14:31	5436.56	4.21	4.21	0.00			5432.35	0.00
10	12/31/96	1445	5436.56	4.01	4.01	0.00			5432.55	0.00
10	03/18/97	1339	5436.56	4.09	4.09	0.00			5432.47	0.00
11	08/24/95	10:15	103.63	5.16					98.47	
11	11/12/95	14:15	103.63	4.94					98.69	
11	03/05/96	08:55	5438.65	4.81	4.81	0.00			5433.84	
11	06/03/96		5438.65	5.15	5.15	0.00			5433.50	0.00
11	10/08/96	15:00	5438.65	5.27	5.27	0.00			5433.38	0.00
11	12/31/96	14:20	5438.65	5.02	5.02	0.00			5433.63	0.00
11	12/31/96	14:20	5438.65	5.02	5.02	0.00			5433.63	0.00
11	03/18/97	1145	5438.65	5.01	5.01	0.00			5433.64	0.00
12	04/19/95	09:15	111.11	13.41					97.70	18.02
12	08/24/95	12:00	111.11	15.13					95.98	21.45
12	11/12/95	12:45	111.11	15.17					95.94	22.45
12	03/05/96	14:40	5446.09	13.45	14.94	1.49			5431.15	26.45
12	05/31/96		5446.09	13.74	14.94	1.20			5431.15	28.45
12	10/07/96		5446.09	14.15	15.62	1.47			5430.47	28.74
12	12/30/96		5446.09	14.20	15.60	1.40			5430.49	29.34
12	03/17/97		5446.09	14.14	15.39	1.25			5430.70	29.56

PRODUCT
PRODUCT

PRODUCT
PRODUCT

TABLE 1
THRIFTWAY REFINERY
SUMMARY OF GROUND WATER MONITORING DATA

WELL #	DATE	TIME	TOP OF PIPE ELEVATION	AIR/OIL INTERFACE (feet)	WATER OUTAGE (feet)	PRODUCT THICKNESS (feet)	WATER LEVEL ELEVATION (feet)	ACCUMULATED PRODUCT (gallons)	CONDUCTIVITY uohms/cm	OXYGEN CONTENT ppm
13	04/11/95	10:30	117.12		17.15			99.97		
13	08/24/95	15:10	117.12		17.47			99.65		
13	11/12/95	12:35	117.12		17.62			99.50		
13	03/05/96	15:05	5452.12	17.43	17.43	0.00		5434.69		
13	06/04/96		5452.12	17.72	17.72	0.00		5434.40		
13	10/08/96	11:50	5452.12	18.11	18.11	0.00		5434.01	0.00	
13	12/30/96	15:30	5452.12	18.04	18.04	0.00		5434.08	0.00	
13	03/18/97	1055	5452.12	17.98	17.98	0.00		5434.14	0.00	
14	04/19/95	15:01	111.94		12.23	0.42		99.71	2.96	
14	08/24/95	12:15	111.94		12.66	0.2		99.28	2.96	
14	11/12/95	12:05	111.94		12.75	0.04		99.19	2.96	
14	03/05/96	15:25	5446.93	12.20	12.53	0.33		5434.40	3.10	
14	05/31/96		5446.93	13.74	14.94	1.20		5431.99	3.10	
14	10/07/96	11:35	5446.93	13.05	13.05	0.00		5433.88	3.10	
14	12/30/96	1135	5446.93	12.97	12.97	0.00		5433.96	3.10	
14	03/17/97	-	5446.93	12.73	13.50	0.77		5433.43	3.26	
15	04/11/95	12:35	114.53		12.96			101.57		
15	08/24/95	10:00	114.53		13.35			101.18		
15	11/12/95	14:30	114.53		13.28			101.25		
15	03/05/96	08:40	5449.51	13.29	13.29	0.00		5436.22		
15	06/03/96		5449.51	13.41	13.41	0.00		5436.10		
15	10/08/96	11:08	5449.51	13.86	13.86	0.00		5435.65	0.00	
15	12/30/96	14:45	5449.51	13.72	13.72	0.00		5435.79	0.00	
15	03/18/97	1000	5449.51	13.49	13.49	0.00		5436.02	0.00	
16	04/11/95	10:55	107.64		8.69			98.95		
16	08/24/95	15:35	107.64		9.03			98.61		
16	11/12/95	12:15	107.64		8.96			98.68		
16	03/05/96	09:15	5442.63	8.81	8.81	0.00		5433.82		
16	06/04/96		5442.63	9.02	9.02	0.00		5433.61		
16	10/08/96	12:45	5442.63	9.33	9.33	0.00		5433.30	0.00	
16	12/30/96	1615	5442.63	9.07	9.07	0.00		5433.56	0.00	
16	03/19/97	1515	5442.63	8.98	8.98	0.00		5433.65	0.00	

3.80
N/A

7510
N/A

6140
6260

6070
N/A

4850
4810

TABLE 1
THRIFTWAY REFINERY
SUMMARY OF GROUND WATER MONITORING DATA

WELL #	DATE	TIME	TOP OF PIPE ELEVATION	AIR/OIL INTERFACE (feet)	WATER OUTAGE (feet)	PRODUCT THICKNESS (feet)	WATER LEVEL ELEVATION (feet)	ACCUMULATED PRODUCT (gallons)	CONDUCTIVITY uohms/cm	OXYGEN CONTENT ppm
17	04/19/95	09:45	100.84	5.85	0.23	94.99	94.99	3.03		
17	08/24/95	17:00	100.84	6.39	0.39	94.45	94.45	4.54		
17	11/12/95	11:05	100.84	6.27	0.22	94.57	94.57	4.54		
17	03/05/96	15:40	5435.57	5.84	6.04	0.20	5429.53	4.54		
17	06/04/96		5435.57	5.73	6.22	0.49	5429.35	5.43		
17	10/07/96		5435.57	5.98	6.09	0.11	5429.48	5.44		
17	12/30/96		5435.57	5.91	6.30	0.39	5429.27	5.91		
17	03/17/97		5435.57	5.63	5.67	0.04	5429.90	5.92		
18	04/11/95	16:00	94.04	3.54			90.50			
18	08/24/95	16:10	94.04	3.85			90.19			
18	11/12/95	08:50	94.04	3.75			90.29			
18	03/05/96	13:30	5429.1	DRY	0.00		DRY			
18	06/04/96		5429.1	3.64	3.64	0.00	5425.46			
18	10/09/96	14:40	5429.1	4.24	4.24	0.00	5424.86	0.00		
18	12/30/96	10:45	5429.1	4.06	4.06	0.00	5425.04	0.00		
18	03/19/97	1400	5429.1	3.26	3.26	0.00	5425.84	0.00		
19	04/11/95	15:20	93.64	2.89			90.75			
19	08/24/95	16:05	93.64	3.59			90.05			
19	11/12/95	09:30	93.64	3.45			90.19			
19	03/05/96	10:50	5428.69	3.51	3.51	0.00	5425.18			
19	06/04/96		5428.69	3.99	3.99	0.00	5424.70			
19	10/09/96	14:20	5428.69	3.70	3.70	0.00	5424.99	0.00		
19	12/30/96	17:15	5428.69	3.77	3.77	0.00	5424.92	0.00		
19	03/19/97	1123	5428.69	3.32	3.32	0.00	5425.37	0.00		
20	04/11/95	13:52	96.11	4.81			91.30			
20	08/24/95	11:35	96.11	5.52			90.59			
20	11/12/95	08:40	96.11	5.45			90.66			
20	03/05/96	09:50	5430.36	5.37	5.37	0.00	5424.99			
20	06/03/96		5430.36	5.59	5.59	0.00	5424.77			
20	10/08/96	16:15	5430.36	5.72	5.72	0.00	5424.64	0.00		
20	12/31/96	900	5430.36	5.74	5.74	0.00	5424.62	0.00		
20	03/18/97	1515	5430.36	5.39	5.39	0.00	5424.97	0.00		

0.90
N/A

5330
6260

TABLE 1
THRIFTWAY REFINERY
SUMMARY OF GROUND WATER MONITORING DATA

WELL #	DATE	TIME	TOP OF PIPE ELEVATION	AIR/OIL INTERFACE (feet)	WATER OUTAGE (feet)	PRODUCT THICKNESS (feet)	WATER LEVEL ELEVATION (feet)	ACCUMULATED PRODUCT (gallons)	CONDUCTIVITY uohms/cm	OXYGEN CONTENT ppm
21	04/11/95	14:31	94.34		3.02			91.32		
21	08/24/95	11:20	94.34		3.83			90.51		
21	11/12/95	08:55	94.34		3.56			90.78		
21	03/05/96	10:15	5428.62	3.55	3.55	0.00		5425.07		
21	06/03/96		5428.62	3.80	3.80	0.00		5424.82		
21	10/09/96	10:00	5428.62	4.15	4.15	0.00		5424.47	0.00	
21	12/31/96	930	5428.62	3.56	3.56	0.00		5425.06	0.00	
21	03/18/97	1600	5428.62	2.76	2.76	0.00		5425.86	0.00	
22	04/11/95	14:17	97.51		5.29			92.22		
22	08/24/95	11:10	97.51		6.24			91.27		
22	11/12/95	09:10	97.51		5.82			91.69		
22	03/05/96	10:25	5430.75	5.64	5.64	0.00		5425.11		
22	06/03/96		5430.75	5.00	5.00	0.00		5425.75		
22	10/08/96	11:45	5430.75	5.35	5.35	0.00		5425.40	0.00	
22	12/31/96	1000	5430.75	4.64	4.64	0.00		5426.11	0.00	
22	03/18/97	1640	5430.75	3.88	3.88	0.00		5426.87	0.00	
23	04/19/95	11:30	115.77		DRY			DRY	DRY	0.89
23	08/24/95		115.77		DRY			DRY	DRY	0.89
23	11/12/95	13:10	115.77		DRY			DRY	DRY	0.89
23	03/05/96	15:55	5448.32	DRY	DRY			DRY	DRY	0.89
23	06/04/96		5448.32	NOT MEASURED	DRY			DRY	DRY	0.89
23	10/07/96	14:35	5448.32		DRY			DRY	DRY	0.89
23	12/31/96	1638	5448.32		DRY			DRY	DRY	0.89
23	03/19/97	1620	5448.32		DRY			DRY	DRY	0.89
24	04/12/95	11:50	116.17		17.45			98.72		
24	08/24/95	17:45	116.17		17.84			98.33		
24	11/12/95	13:15	116.17		18.31			97.86		
24	03/05/96	16:10	5447.53	DRY	DRY			DRY		
24	06/04/96		5447.53	NOT MEASURED						
24	10/07/96	14:39	5447.53	15.01	15.01	0.00		5432.52	0.00	
24	12/31/96	1637	5447.53	15.00	15.00	0.00		5432.53	0.00	
24	03/19/97	1621	5447.53	15.01	15.01	0.00		5432.52	0.00	

TABLE 1
THRIFTWAY REFINERY
SUMMARY OF GROUND WATER MONITORING DATA

WELL #	DATE	TIME	TOP OF PIPE ELEVATION	AIR/OIL INTERFACE (feet)	WATER OUTAGE (feet)	PRODUCT THICKNESS (feet)	WATER LEVEL ELEVATION (feet)	ACCUMULATED PRODUCT (gallons)	CONDUCTIVITY uohms/cm	OXYGEN CONTENT ppm
25	04/12/95	11:40	112.62	12.00	12.00				100.62	
25	08/24/95	18:10	112.62	11.94	11.94				100.68	
25	11/12/95	13:25	112.62	14.46	14.46				98.16	
25	03/05/96	16:15	5447.62	DRY	DRY	0.00	DRY	0.00		
25	06/04/96		5447.62	NOT MEASURED						
25	10/07/96	14:40	5447.62	14.70	14.70			5432.92	0.00	
25	12/31/96	1635	5447.62	DRY	DRY		DRY	0.00		NM
25	03/19/97	1622	5447.62	DRY	DRY		DRY	0.00		N/A
26	04/19/95	11:45	112.36	14.00	14.00	0.06	98.36	8.55		
26	08/24/95	18:30	112.36	14.32	0	98.04	98.04	8.55		
26	11/12/95		112.36	NOT MEASURED						
26	03/05/96		5447.26	NOT MEASURED						
26	06/04/96		5447.26	NOT MEASURED						
26	10/07/96		5447.26	DRY	DRY		DRY	8.55		
26	12/31/96		5447.26	WELL COVERED	NOT ACCESSABLE		DRY	8.55		
26	03/19/97	1623	5447.26	WELL COVERED	NOT ACCESSABLE		DRY	8.55		
27	01/20/95						DRY	8.44		
27	08/24/95						DRY	8.44		
27	11/12/95						DRY	8.44		
27	03/05/96						DRY	8.44		
27	06/04/96						DRY	8.44		
27	10/07/96						DRY	8.44		
27	12/31/96	1645	5448.04	NOT MEASURED	DRY		DRY	8.44		
27	03/19/97	1619	5448.04	DRY	DRY		DRY	8.44		
28	04/19/95	11:40								
28	08/24/95	18:45								
28	11/12/95	13:05								
28	03/05/96	16:30	5448.06	14.64	14.79	0.15		5433.39		
28	06/04/96		5448.06	NOT MEASURED						
28	10/07/96	14:35	5448.06	14.98	14.98	0.00		5433.08	6.17	
28	12/31/96	1630	5448.06	14.97	14.97	0.00		5433.09	6.17	
28	03/19/97	1617	5448.06	14.96	14.96	0.00		5433.10	6.17	

TABLE 1
THRIFTWAY REFINERY
SUMMARY OF GROUND WATER MONITORING DATA

WELL #	DATE	TIME	TOP OF PIPE ELEVATION	AIR/OIL INTERFACE (feet)	WATER OUTAGE (feet)	WATER THICKNESS (feet)	WATER LEVEL ELEVATION (feet)	ACCUMULATED PRODUCT (gallons)	CONDUCTIVITY uohms/cm	OXYGEN CONTENT ppm
29	04/12/95		5446.90			1.09			6.04	
29	08/24/95		5446.90			0.72			6.75	
29	11/12/95		5446.90			0.78			7.09	
29	03/05/96		5446.90		NOT MEASURED				7.09	
29	06/04/96		5446.90		NOT MEASURED				7.09	
29	10/07/96	14:42	5446.90	14.59	14.82	0.23	5432.08	7.10		
29	12/31/96	1442	5446.90	14.65	14.78	0.13	5432.12	7.11		
29	03/17/97	-	5446.90	14.61	14.69	0.08	5432.21	7.11		
RW-1	REMOVED				DRY				11.16	
RW-3	REMOVED				DRY				15.44	
RW-8	REMOVED				DRY				32.08	
RW-9	REMOVED				DRY				26.91	
RW-12	REMOVED				DRY				34.40	
RW-13	REMOVED				DRY				28.89	
RW-14	REMOVED				DRY				27.18	
RW-24	01/20/95								94.99	
RW-24	11/12/95								101.48	
RW-24	03/05/96				NOT MEASURED				101.48	
RW-24	05/31/96				13.50	14.56	1.06		103.23	
RW-24	10/07/96	15:12			13.87	15.34	1.47		103.52	
RW-24	12/30/96				13.94	15.34	1.40		104.07	
RW-24	03/17/97				13.90	14.94	1.04		104.21	

TABLE 1

THIRTYWAY REFINERY SUMMARY OF GROUND WATER MONITORING DATA									
WELL #	DATE	TIME	TOP OF PIPE ELEVATION	AIR/OIL INTERFACE (feet)	WATER OUTAGE (feet)	PRODUCT THICKNESS (feet)	WATER LEVEL ELEVATION (feet)	ACCUMULATED PRODUCT (gallons)	CONDUCTIVITY uohms/cm
RW-25	06/19/95					0.90			40.18
RW-25	08/25/95					0.00			41.77
RW-25	11/12/95					0.52			43.75
RW-25	03/05/96		5446.67	NOT MEASURED					43.75
RW-25	05/31/96	14:58	5446.67	14.27	14.93	0.66	5431.74	49.25	
RW-25	10/07/96		5446.67	14.84	15.01	0.17	5431.66	49.26	
RW-25	12/30/96		5446.67	14.89	15.02	0.13	5431.65	49.28	PRODUCT
RW-25	03/17/97		5446.67	14.77	15.02	0.25	5431.65	49.30	PRODUCT
RW-26	12/30/96			12.97	13.70	0.73		0.70	PRODUCT
RW-26	03/17/97			12.00	12.56	0.56		0.87	PRODUCT
RW-26									PRODUCT
RW-26									PRODUCT
T-17-1	04/12/95					1.20			4.22
T-17-1	08/24/95					0.93			4.75
T-17-1	11/12/95					0.61			6.33
T-17-1	03/05/96		5452.41	NOT MEASURED					
T-17-1	06/04/96		5452.41	17.76	18.28	0.52	5428.39	6.33	
T-17-1	10/10/96		5452.41	18.05	18.11	0.06	5428.56	6.40	
T-17-1	12/30/96		5452.41	DRY	DRY	DRY	DRY	6.40	NM
T-17-1	03/19/97	1632	5452.41	DRY	DRY	DRY	DRY	6.40	N/A
T-17-2	01/20/95								
T-17-2	03/05/96		5453.51	NOT MEASURED					
T-17-2	06/04/96		5453.51	NOT MEASURED					
T-17-2	10/10/96		5453.51	17.35	17.35	0.00	5436.16	0.00	
T-17-2	12/30/96		5453.51	NOT MEASURED					
T-17-2	03/19/97	1632	5453.51	19.74	19.74	0.00	5433.77	0.00	
T-17-3	01/20/95								
T-17-3	03/05/96		5450.98	NOT MEASURED					
T-17-3	06/04/96		5450.98	NOT MEASURED					
T-17-3	10/10/96		5450.98	19.85	19.90	0.05	5431.08	0.00	
T-17-3	12/30/96		5450.98	17.16	17.16	0.00	5433.82	0.00	
T-17-3	03/19/97	1629	5450.98	17.2	17.20	0.00	5433.78	0.00	

WELL #	DATE	TIME	TOP OF PIPE ELEVATION	SUMMARY OF GROUND WATER MONITORING DATA			ACCUMULATED PRODUCT (gallons)	CONDUCTIVITY uohms/cm	OXYGEN CONTENT ppm
				AIR/OIL INTERFACE (feet)	WATER OUTAGE (feet)	WATER LEVEL ELEVATION (feet)			
UST	04/21/95			GALLONS RECOVERED THIS QUARTER			633.25		
UST	06/16/95			GALLONS RECOVERED THIS QUARTER			1688.65		
UST	08/25/95			GALLONS RECOVERED THIS QUARTER			1688.65		
UST	11/12/95			GALLONS RECOVERED THIS QUARTER			1767.81		
UST	03/05/96			GALLONS RECOVERED THIS QUARTER			1767.81		
UST	06/04/96			GALLONS RECOVERED THIS QUARTER			2017.81		
UST	10/10/96			GALLONS RECOVERED THIS QUARTER			4667.81		
UST	12/30/96			NO GALLONS RECOVERED THIS QUARTER			4667.81	NM	
UST	03/19/97			NO GALLONS RECOVERED THIS QUARTER			4667.81	N/A	

TOTAL GALLONS OF PRODUCT RECOVERED TO DATE:

NOTE: NM SIGNIFIES NOT MEASURED

810\QMRTABL1.WK4

5077.23

TABLE 2
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
CONCENTRATIONS IN mg/L

Well No.	Date	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
MW-1	01/20/95		FREE PRODUCT FOUND IN WELL			
	04/12/95		FREE PRODUCT FOUND IN WELL			
	08/24/95		FREE PRODUCT FOUND IN WELL			
	11/12/95		FREE PRODUCT FOUND IN WELL			
	03/05/96		FREE PRODUCT FOUND IN WELL			
	05/31/96		FREE PRODUCT FOUND IN WELL			
	10/09/96	0.2446	0.2551	0.0109	0.0365	0.1928
	12/31/96	0.2196	0.1640	0.0053	0.0198	0.1766
MW-2	01/20/95	0.0830	1.5810	0.0159	0.3950	0.5317
	04/12/95	0.2290	3.0500	0.1700	0.6360	0.8731
	08/24/95	0.3190	2.0730	0.0550	0.3910	0.4471
	11/12/95	0.3340	2.2900	0.0980	0.5360	0.5660
	03/05/96	0.6640	3.1200	0.0535	0.4840	0.5198
	06/04/96		FREE PRODUCT FOUND IN WELL			
	10/09/96		FREE PRODUCT FOUND IN WELL			
	12/31/96		FREE PRODUCT FOUND IN WELL			
MW-3	01/20/95	0.1110	0.0262	0.0010	0.0048	0.0042
	04/12/95	0.2010	0.1240	0.0004	0.0082	0.0044
	08/24/95	0.2130	0.0106	0.0024	ND	0.0017
	11/12/95	0.2640	0.0028	0.0018	ND	0.0016
	03/05/96	0.2980	0.1170	0.0059	0.0282	0.0169
	06/04/96		NOT SAMPLED			
	10/09/96	0.2247	0.0417	0.0040	0.0058	0.0043
	12/31/96		NOT SAMPLED			
MW-4	01/17/95	0.0530	0.3910	0.0082	0.0290	0.2040
	04/11/95	0.0468	0.4290	0.0052	0.0112	0.0104
	08/24/95	0.0309	0.0051	0.0049	0.0012	0.0065
	11/12/95	0.0350	0.0030	0.0050	0.0009	0.0068
	03/05/96	0.0315	0.0500	0.0056	ND	0.0083
	06/04/96	0.0350	0.0010	0.0033	0.0033	0.0070
	10/09/96	0.0330	0.0009	0.0021	0.0022	0.0012
	12/31/96	0.0270	0.0035	0.0014	0.0017	0.0016
MW-5	01/17/95	0.0550	0.0028	ND	ND	ND
	04/11/95	0.0657	0.0031	ND	ND	ND
	08/24/95	0.0477	ND	ND	0.0002	0.0010
	11/12/95	0.0458	0.0037	0.0004	0.0008	0.0011
	03/05/96	0.0529	0.0020	0.0004	0.0006	0.0012
	06/04/96	0.0472	0.0003	ND	0.0002	ND
	10/09/96	0.0486	0.0006	ND	ND	ND
	12/31/96	0.0479	0.0048	ND	0.0002	0.0011

TABLE 2
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
CONCENTRATIONS IN mg/L

Well No.	Date	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
MW-6	01/20/95	0.0195	0.0009	0.0050	0.0014	0.0054
	04/12/95	0.0211	0.0270	0.0181	0.0026	0.0102
	08/24/95	0.0266	0.0029	0.0013	0.0002	0.0016
	11/12/95	0.0280	0.0018	0.0021	0.0006	0.0012
	03/05/96	0.0009	0.0002	ND	ND	ND
	06/04/96	0.0083	0.0010	0.0025	0.0002	0.0008
	10/09/96	0.0335	0.0019	0.0037	0.0032	0.0013
	12/31/96	0.0009	0.0003	0.0054	0.0009	0.0011
MW-7	01/20/95	0.0680	0.1760	0.1250	0.0500	0.4330
	04/12/95		FREE PRODUCT FOUND IN WELL			
	08/24/95		FREE PRODUCT FOUND IN WELL			
	11/12/95		FREE PRODUCT FOUND IN WELL			
	03/05/96		FREE PRODUCT FOUND IN WELL			
	05/31/96		FREE PRODUCT FOUND IN WELL			
	10/09/96		FREE PRODUCT FOUND IN WELL			
	12/31/96		FREE PRODUCT FOUND IN WELL			
MW-8	01/17/95	0.0750	0.0022	0.0004	ND	0.0003
	04/11/95	0.0876	0.0013	ND	0.0003	0.0017
	08/24/95		DRY			
	11/12/95		DRY			
	03/05/96		DRY			
	06/03/96		SILTED IN TO 3.80 FEET BELOW GRADE			
	10/09/96		SILTED IN TO 3.80 FEET BELOW GRADE			
	12/31/96	0.0358	ND	ND	ND	ND
MW-9	01/17/95	0.0469	0.0483	ND	ND	ND
	04/11/95	0.0400	0.0558	ND	0.0003	0.0005
	08/24/95	0.0710	0.0710	ND	ND	0.0005
	11/12/95	0.0358	0.0013	0.0082	0.0020	0.0136
	03/05/96	0.0168	0.0008	0.0003	0.0011	0.0013
	06/03/96	0.0158	0.0004	ND	ND	ND
	10/09/96	0.0165	ND	ND	ND	ND
	12/31/96	0.0072	ND	ND	ND	ND
MW-10	01/17/95	0.0003	ND	ND	ND	ND
	04/11/95	ND	0.0015	ND	ND	0.0003
	08/24/95	0.0011	0.0042	0.0020	0.0051	0.0141
	11/12/95	ND	ND	0.0026	0.0006	0.0051
	03/05/96	ND	0.0010	ND	0.0009	0.0004
	06/03/96	ND	ND	ND	ND	ND
	10/09/96	ND	ND	ND	ND	ND
	12/31/96	ND	ND	ND	ND	ND

TABLE 2
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
CONCENTRATIONS IN mg/L

Well No.	Date	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
MW-11	01/17/95	ND	ND	ND	ND	ND
	04/11/95	ND	ND	ND	0.0002	0.0005
	08/24/95	ND	0.0017	ND	0.0008	0.0024
	11/12/95	ND	0.0005	0.0017	0.0005	0.0042
	03/05/96	ND	ND	ND	ND	0.0003
	06/03/96	ND	ND	ND	ND	ND
	10/09/96	ND	ND	ND	ND	ND
	12/31/96	ND	ND	ND	ND	ND
MW-12	01/17/95	FREE PRODUCT FOUND IN WELL				
	04/11/95	FREE PRODUCT FOUND IN WELL				
	08/24/95	FREE PRODUCT FOUND IN WELL				
	11/12/95	FREE PRODUCT FOUND IN WELL				
	03/05/96	FREE PRODUCT FOUND IN WELL				
	05/31/96	FREE PRODUCT FOUND IN WELL				
	10/09/96	FREE PRODUCT FOUND IN WELL				
	12/31/96	FREE PRODUCT FOUND IN WELL				
MW-13	01/20/95	ND	ND	ND	ND	0.0002
	04/11/95	ND	ND	ND	ND	ND
	08/24/95	0.0003	ND	ND	ND	ND
	11/12/95	ND	0.0021	0.0060	0.0024	0.0209
	03/05/96	ND	ND	ND	ND	0.0005
	06/04/96	ND	ND	ND	ND	ND
	10/09/96	ND	ND	ND	ND	ND
	12/30/96	ND	ND	ND	ND	ND
MW-14	01/20/95	FREE PRODUCT FOUND IN WELL				
	04/11/95	FREE PRODUCT FOUND IN WELL				
	08/24/95	FREE PRODUCT FOUND IN WELL				
	11/12/95	FREE PRODUCT FOUND IN WELL				
	03/05/96	FREE PRODUCT FOUND IN WELL				
	05/31/96	FREE PRODUCT FOUND IN WELL				
	10/09/96	0.1037	7.6988	0.3617	2.1077	2.9178
	12/30/96	0.0948	6.6735	0.1794	0.8573	0.9405
MW-15	01/17/95	ND	ND	ND	ND	ND
	04/11/95	ND	ND	ND	ND	ND
	08/24/95	ND	ND	ND	ND	0.0005
	11/12/95	ND	0.0003	0.0027	0.0004	0.0032
	03/05/96	ND	0.0016	0.0004	0.0038	0.0035
	06/03/96	ND	ND	ND	ND	ND
	10/09/96	ND	ND	ND	0.0002	ND
	12/30/96	ND	ND	ND	ND	ND

TABLE 2
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
CONCENTRATIONS IN mg/L

Well No.	Date	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
MW-16	01/20/95	0.0003	ND	ND	0.0005	0.0005
	04/11/95	ND	ND	ND	0.0003	0.0008
	08/24/95	ND	ND	ND	0.0007	0.0016
	11/12/95	ND	ND	0.0005	0.0019	0.0127
	03/05/96	ND	ND	ND	0.0006	0.0016
	06/04/96	NOT SAMPLED				
	10/09/96	ND	ND	ND	0.0003	ND
	12/30/96	ND	ND	ND	ND	ND
MW-17	01/20/95	FREE PRODUCT FOUND IN WELL				
	04/11/95	FREE PRODUCT FOUND IN WELL				
	08/24/95	FREE PRODUCT FOUND IN WELL				
	11/12/95	FREE PRODUCT FOUND IN WELL				
	03/05/96	FREE PRODUCT FOUND IN WELL				
	06/04/96	FREE PRODUCT FOUND IN WELL				
	10/09/96	FREE PRODUCT FOUND IN WELL				
	12/30/96	FREE PRODUCT FOUND IN WELL				
MW-18	01/17/95	0.0433	0.0920	0.0032	0.0131	0.0957
	04/11/95	0.0300	0.0766	0.0014	0.0041	0.0122
	08/24/95	0.0357	0.1780	0.0030	0.0155	0.0098
	11/12/95	0.0337	0.3140	0.0062	0.0326	0.1667
	03/05/96	0.0530	0.0068	0.0024	0.0018	0.0141
	06/04/96	0.0368	0.1364	0.0025	0.0066	0.0047
	10/09/96	0.0319	0.0601	0.0011	0.0015	0.0007
	12/31/96	0.0431	0.1760	0.0019	0.0013	0.0007
MW-19	01/17/95	0.0159	0.0083	0.0037	0.1460	0.3364
	04/11/95	0.0079	0.0055	0.0016	0.1390	0.3020
	08/24/95	0.0320	0.0074	0.0027	0.0680	0.1251
	11/12/95	0.0630	0.0177	0.0060	0.2010	0.3520
	03/05/96	0.0806	0.0061	0.0028	0.0249	0.0553
	06/04/96	0.0805	0.0153	0.0028	0.0929	0.1505
	10/09/96	0.0111	0.0014	0.0030	0.0395	0.0580
	12/30/96	0.0657	0.0179	0.0035	0.0430	0.0625
MW-20	01/17/95	0.1090	0.0065	0.0173	0.0211	0.0600
	04/11/95	0.1370	0.0016	0.0058	0.0021	0.0120
	08/24/95	0.1040	0.0003	0.0067	0.0023	0.0106
	11/12/95	0.1390	0.0043	0.0152	0.0059	0.0089
	03/05/96	0.1334	0.0036	0.0168	0.0033	0.0218
	06/03/96	0.1063	0.0014	0.0038	0.0008	0.0014
	10/09/96	0.0733	0.0025	0.0115	0.0075	0.0044
	12/31/96	0.0533	0.0027	0.0143	0.0095	0.0057

TABLE 2
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
CONCENTRATIONS IN mg/L

Well No.	Date	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
MW-21	01/17/95	0.0392	0.0510	0.0080	0.0410	0.0663
	04/11/95	0.0626	0.0034	0.0012	0.0005	0.0016
	08/24/95	0.0700	0.0050	0.0006	0.0004	0.0010
	11/12/95	0.0610	0.0006	0.0007	ND	0.0007
	03/05/96	0.0820	0.0060	0.0020	0.0293	0.0061
	06/03/96	0.0821	0.0004	0.0003	0.0011	0.0009
	10/09/96	0.0460	0.0007	ND	0.0005	0.0003
	12/31/96	0.0513	ND	ND	0.0005	0.0002
MW-22	01/17/95	0.0408	ND	ND	ND	ND
	04/11/95	0.0353	ND	ND	ND	ND
	08/24/95	0.0256	ND	ND	ND	0.0004
	11/12/95	0.0250	0.0007	0.0008	0.0002	0.0008
	03/05/96	0.0367	ND	ND	0.0002	0.0004
	06/03/96	0.0253	ND	ND	ND	0.0004
	10/09/96	0.0229	ND	ND	ND	ND
	12/31/96	0.0221	ND	ND	ND	ND
MW- 23	01/20/95		DRY			
	04/12/95		DRY			
	08/24/95		DRY			
	11/12/95		DRY			
	03/05/96		DRY			
	06/04/96		NOT SAMPLED			
	10/09/96		NOT SAMPLED			
	12/31/96		NOT SAMPLED			
MW- 24	10/09/96	0.0256	0.2317	0.1441	0.1225	0.9888
	12/31/96		NOT SAMPLED			
MW-25	01/20/95		NOT SAMPLED			
	04/12/95	0.0753	0.2450	0.0015	0.0036	0.0233
	08/24/95	0.1000	1.6410	0.0153	0.1080	0.1610
	11/12/95	0.0660	1.2070	1.9790	0.3980	2.4700
	03/05/96		DRY			
	06/04/96		NOT SAMPLED			
	10/09/96	0.0010	0.0399	0.0113	0.0074	0.0143
	12/31/96		NOT SAMPLED			
INFLUENT	06/22/94		PUMP SHUT DOWN			
	09/20/94	0.0500	9.6700	0.7540	0.1580	0.6330
	01/20/95		NOT SAMPLED			
	04/12/95	0.0245	2.0600	0.9870	0.2460	1.6890
	03/05/96	0.1550	6.9900	3.5700	1.3000	6.6800
	06/04/96	0.0950	4.6077	1.7947	0.5238	2.5540
	10/09/96	0.0132	3.1160	1.3322	0.5042	1.5880
	12/31/96		SYSTEM SHUT DOWN			
	03/24/97	NM	2.1100	1.0110	0.0470	1.2790
	04/02/97	NM	1.4360	0.6500	0.3610	1.2790

TABLE 2
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD, NEW MEXICO
CONCENTRATIONS IN mg/L

Well No.	Date	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes
EFFLUENT	06/22/94		BLOWER SHUT DOWN			
NOTE	09/20/94	ND	0.0093	0.0009	ND	0.0007
SAVE	01/20/95		NOT SAMPLED			
ALL	04/12/95	0.0075	0.0975	0.3630	0.2780	2.6390
RESULTS	11/12/95	0.0032	0.0339	0.0123	0.0089	0.0481
FROM	03/05/95	0.0070	0.0500	0.0212	0.0071	0.0434
LAB	06/04/96	0.0035	0.0024	0.0007	0.0009	0.0038
FOR THE	07/18/96	0.0074	0.0626	0.0437	0.0131	0.0889
STRIPPER	10/09/96	0.0012	0.0037	ND	0.0014	0.0044
OUTLET	12/31/96		SYSTEM SHUT DOWN			
	03/24/97	NM	0.0034	0.0019	0.0009	0.0027
	04/02/97	NM	0.0054	0.0026	0.0014	0.0048
	04/03/97	NM	0.0000	0.0000	ND	ND
	04/04/97	NM	ND	0.0000	ND	0.0001
	04/10/97	NM	0.0001	0.0000	0.0000	0.0001
	04/18/97	0.0005	0.0004	0.0000	0.0000	0.0001
POND	10/09/96	ND	ND	ND	0.0005	0.0004
	12/31/96		NOT SAMPLED			
NMWQCC	12/24/87	0.0020	0.0010	0.0750	0.0750	0.0620

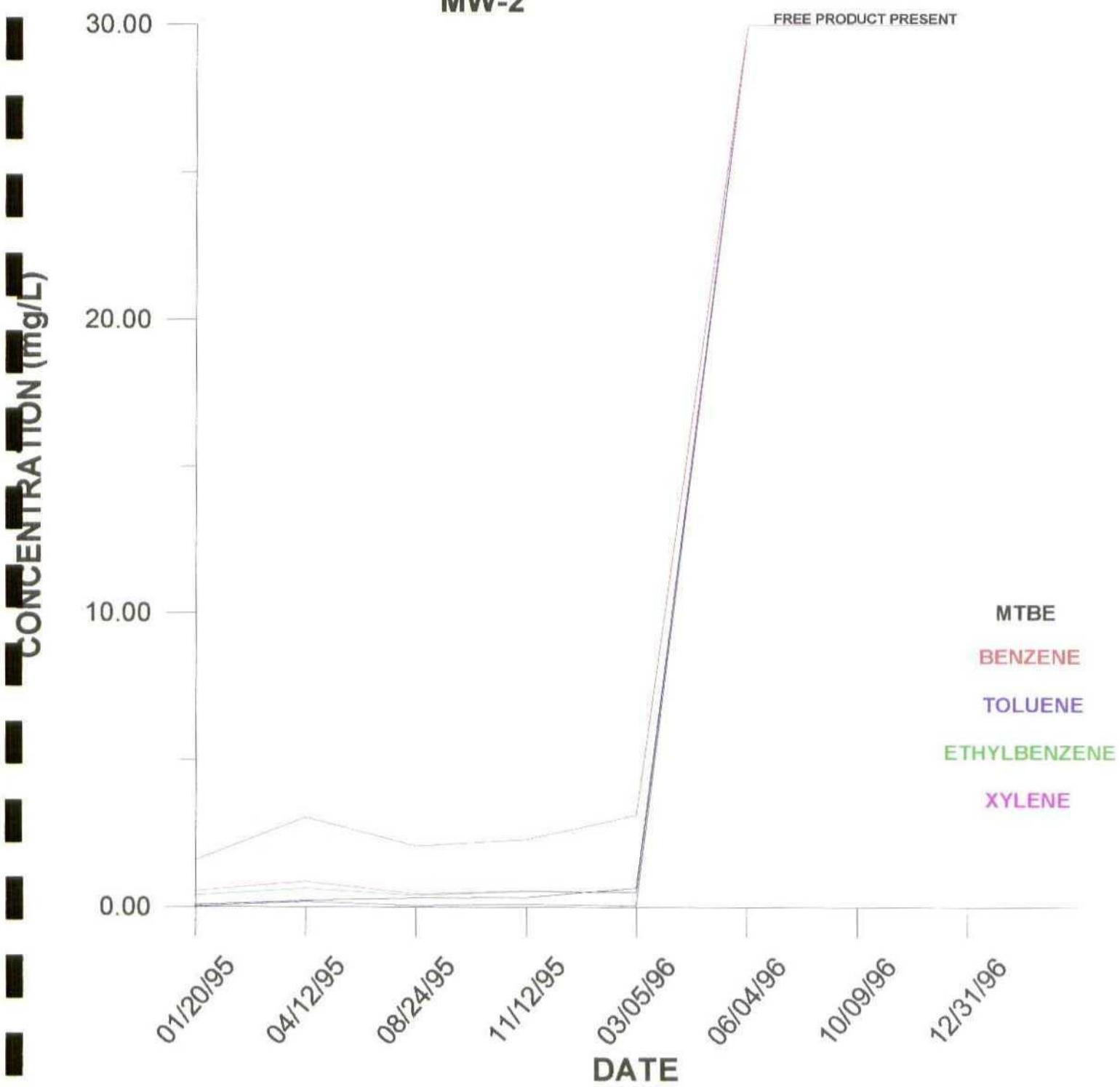
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GRAPHS

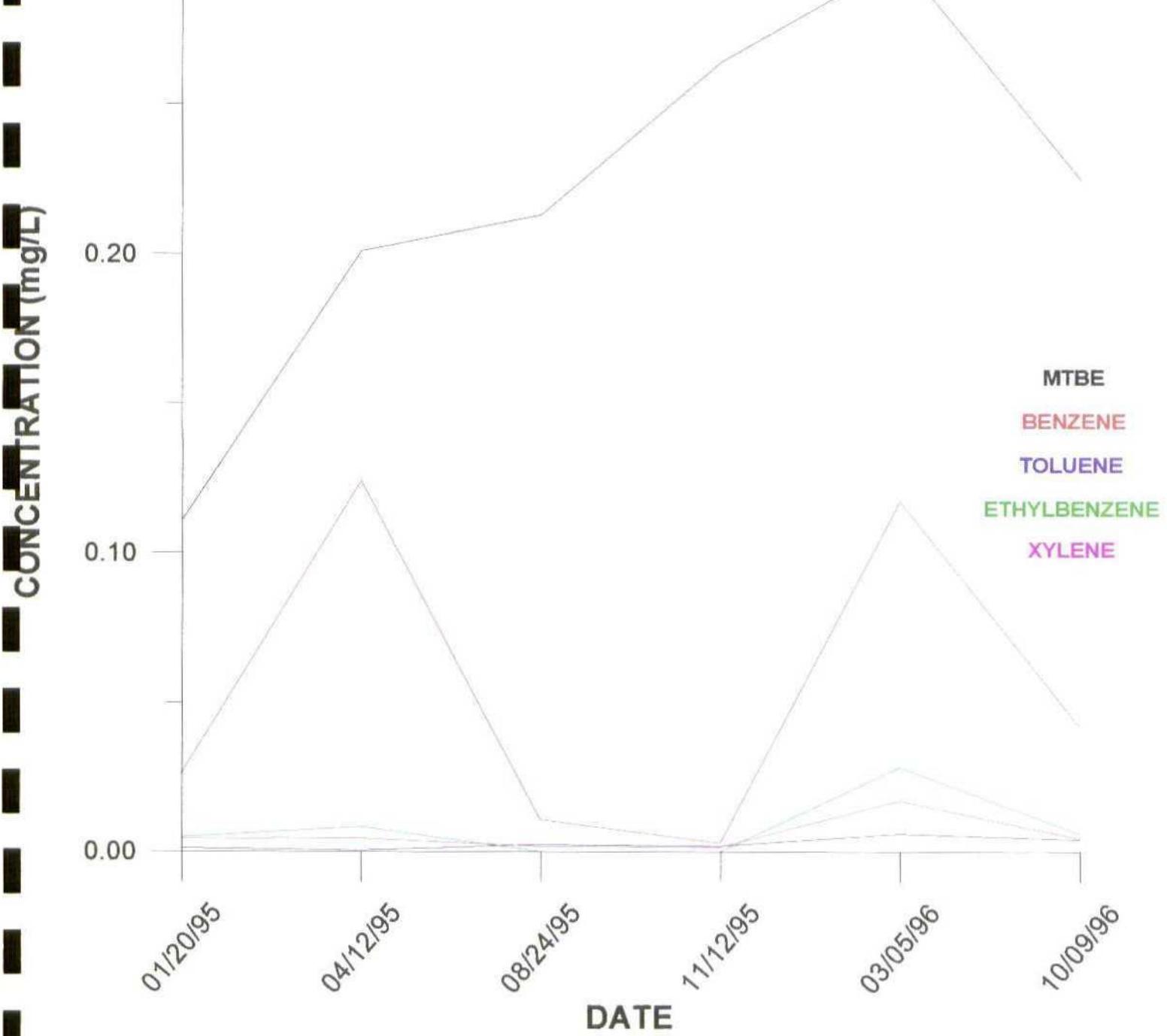
THRIFTWAY REFINERY

MW-2



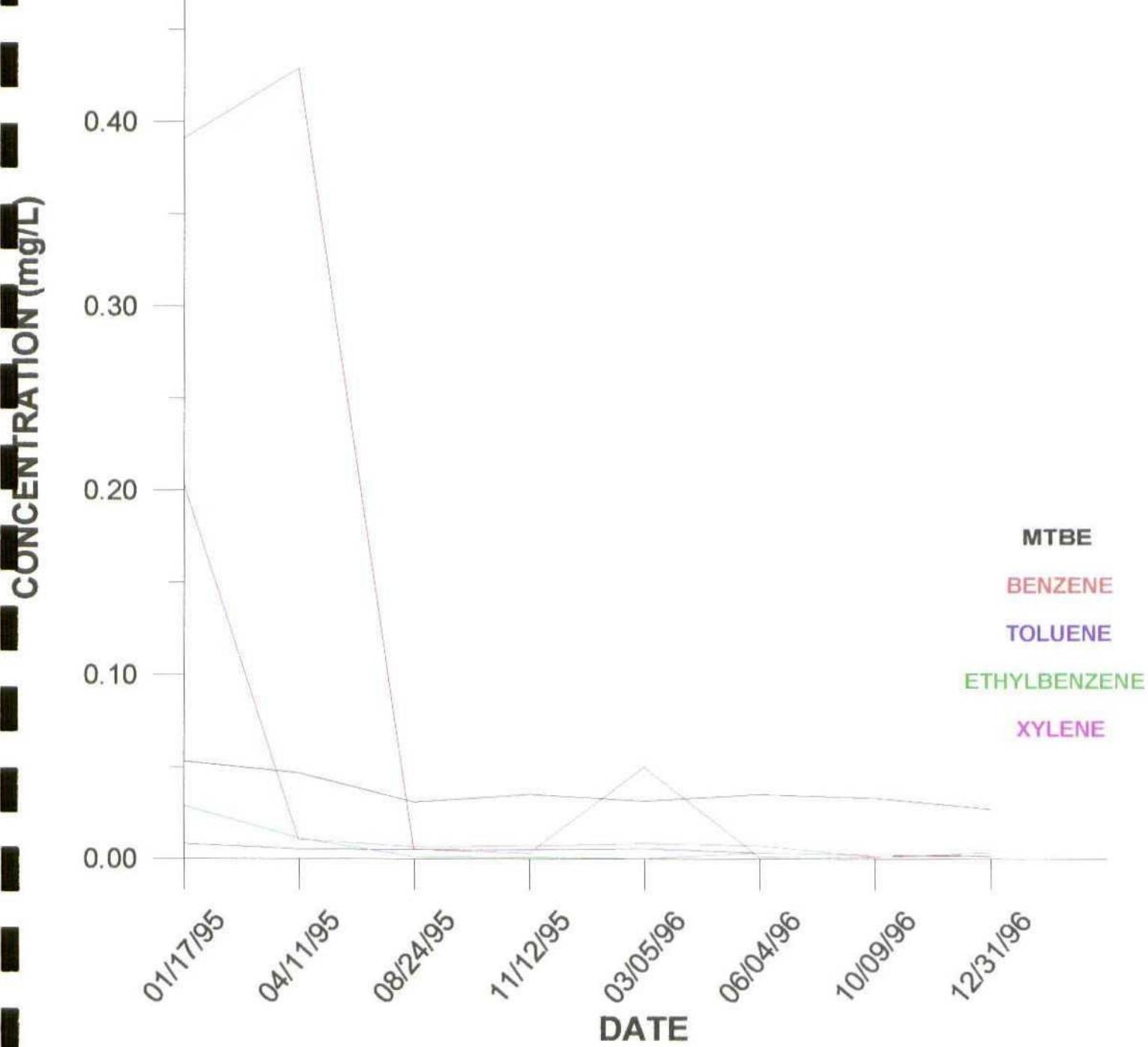
THRIFTWAY REFINERY

MW-3



THRIFTWAY REFINERY

MW-4



THRIFTWAY REFINERY
MW-5

CONCENTRATION (mg/L)

0.08

0.06

0.04

0.02

0.00

MTBE

BENZENE

TOLUENE

ETHYLBENZENE

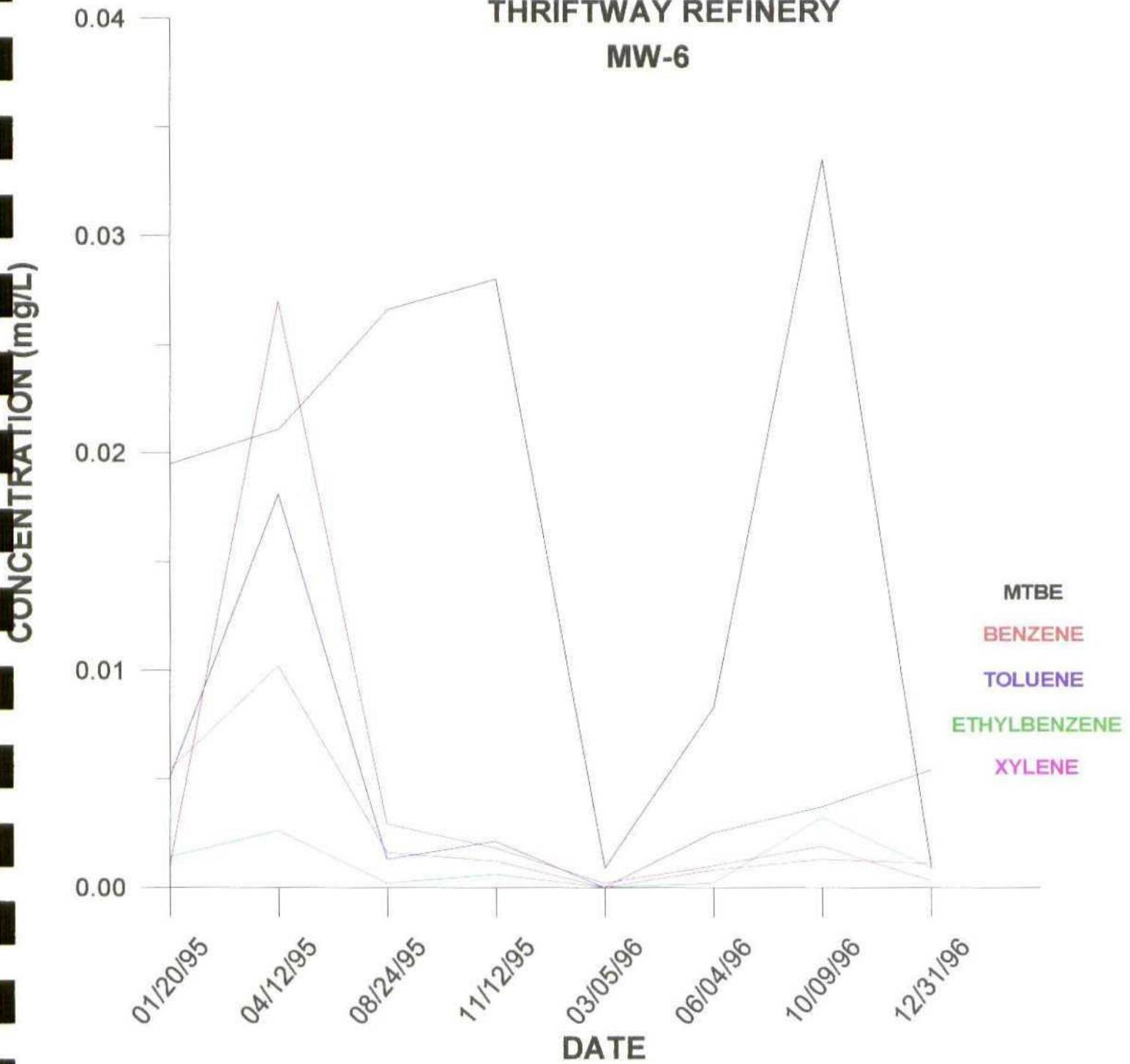
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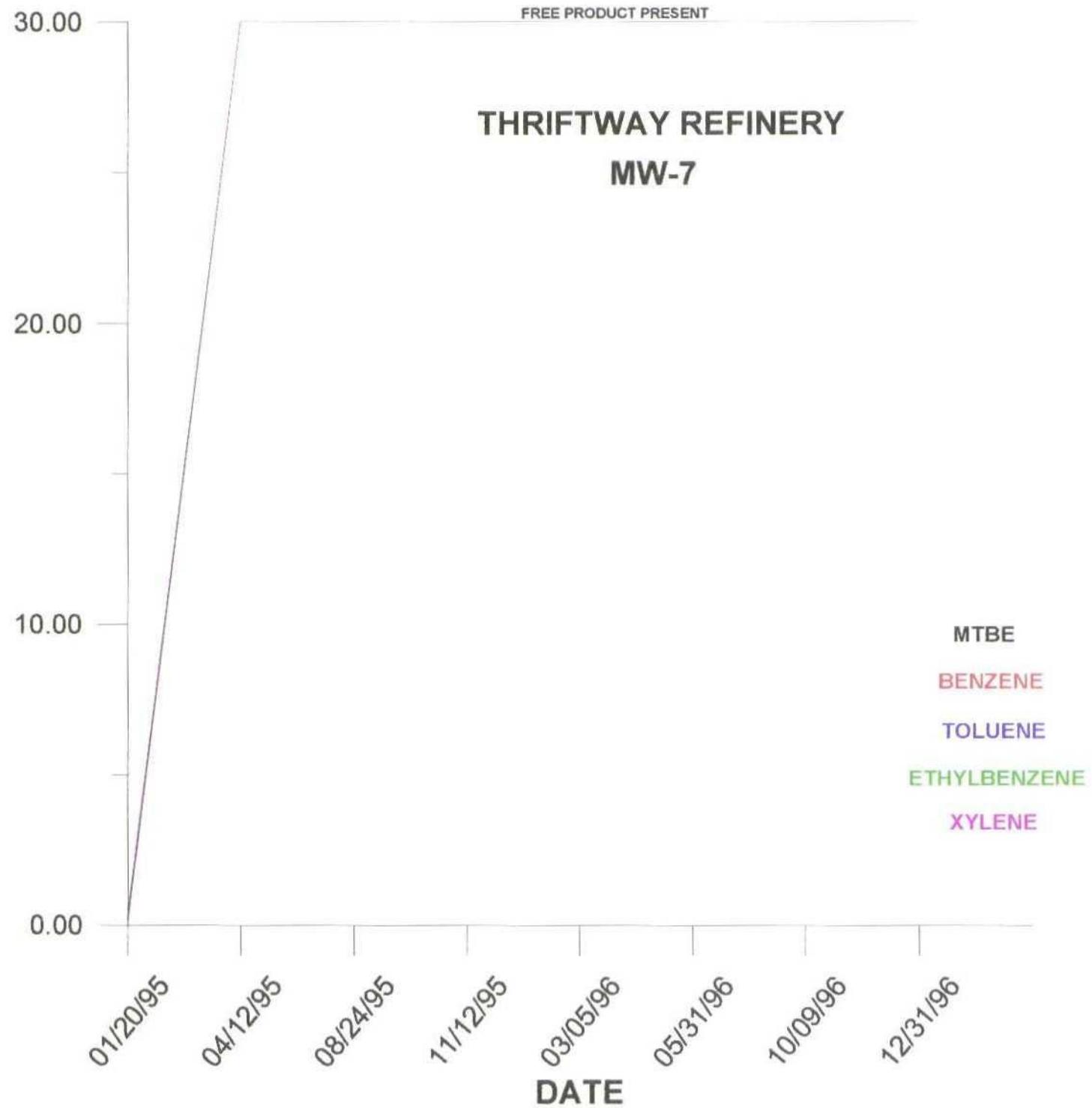
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DATE

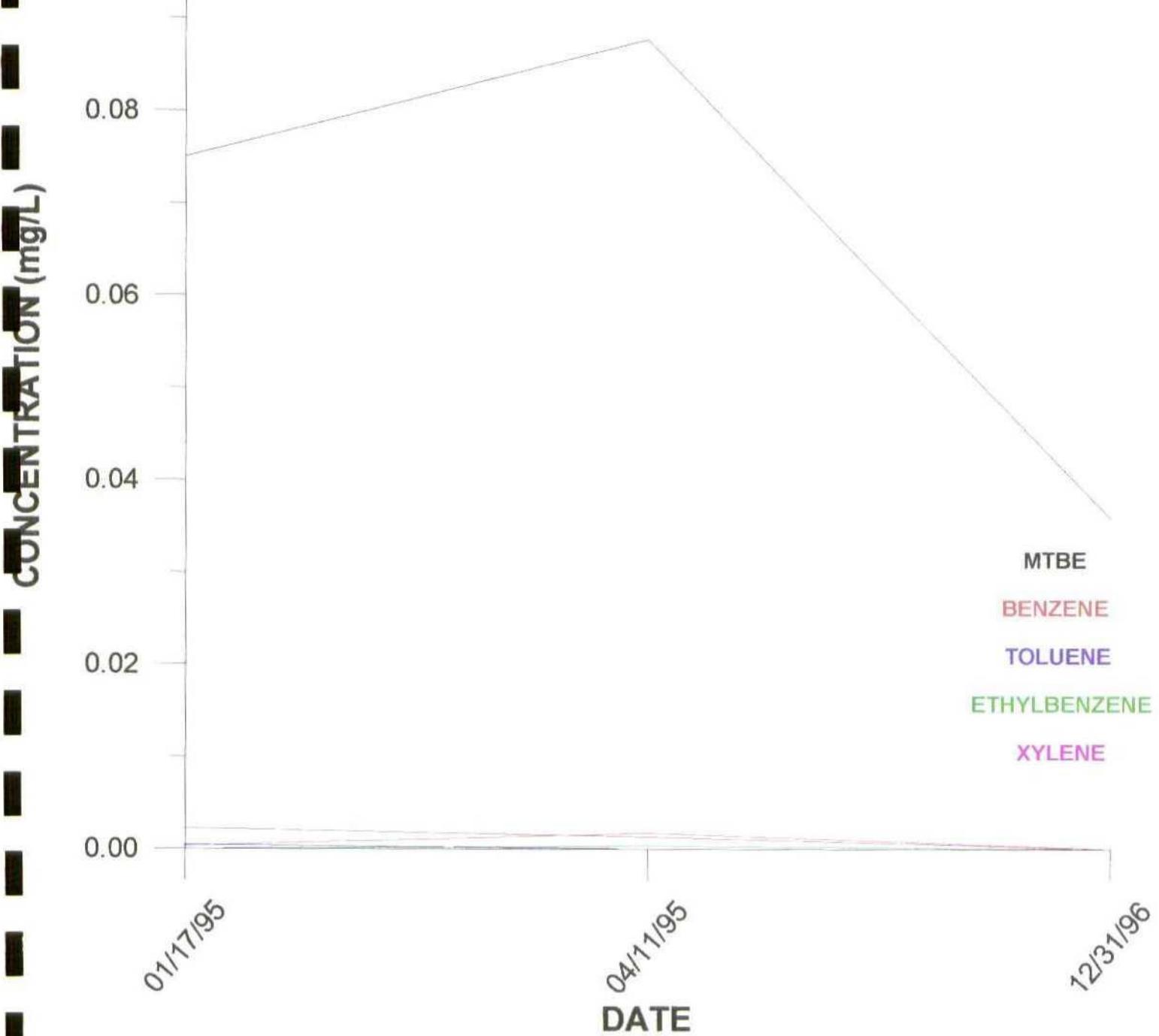


THRIFTWAY REFINERY
MW-6





THRIFTWAY REFINERY
MW-8



THRIFTWAY REFINERY
MW-9

CONCENTRATION (mg/L)

0.08

0.06

0.04

0.02

0.00

01/17/95 04/11/95 08/24/95 11/12/95 03/05/96 06/03/96 10/09/96 12/31/96

DATE

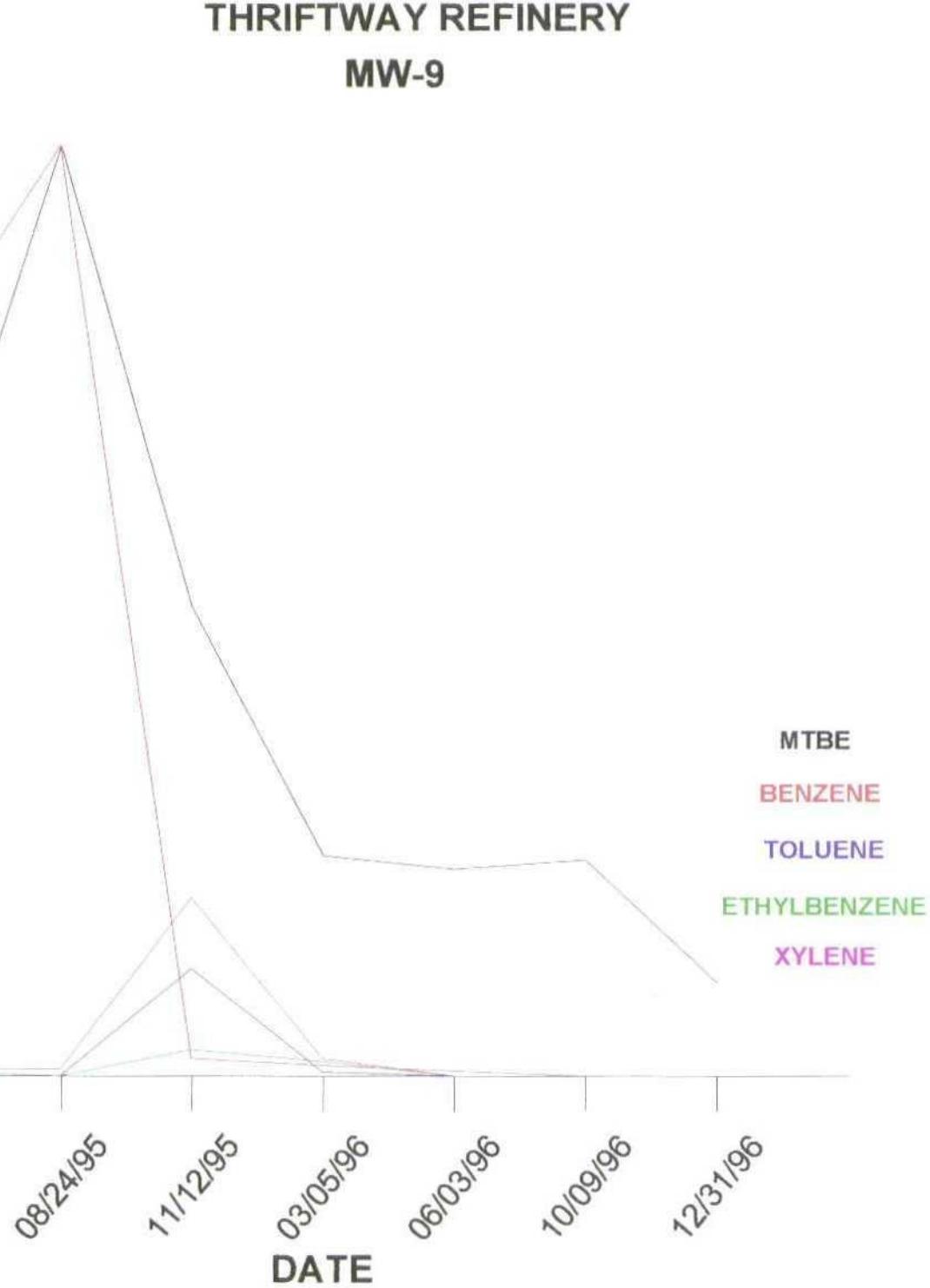
MTBE

BENZENE

TOLUENE

ETHYLBENZENE

XYLENE



THRIFTWAY REFINERY
MW-10

CONCENTRATION (mg/L)

0.02

0.01

0.01

0.00

0.00

01/17/95

04/11/95

08/24/95

11/12/95

03/05/96

06/03/96

10/09/96

12/31/96

DATE

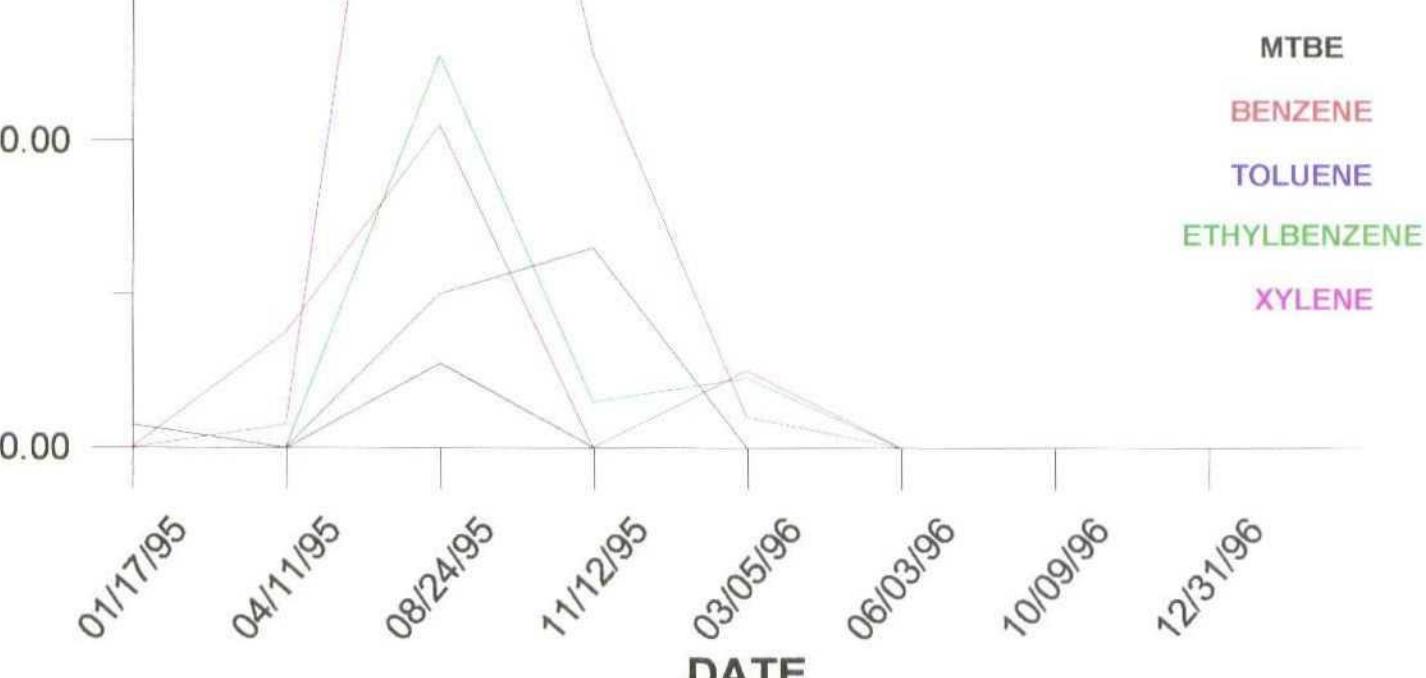
MTBE

BENZENE

TOLUENE

ETHYLBENZENE

XYLENE



THRIFTWAY REFINERY
MW-11

CONCENTRATION (mg/L)

0.01

0.00

0.00

0.00

0.00

MTBE

BENZENE

TOLUENE

ETHYLBENZENE

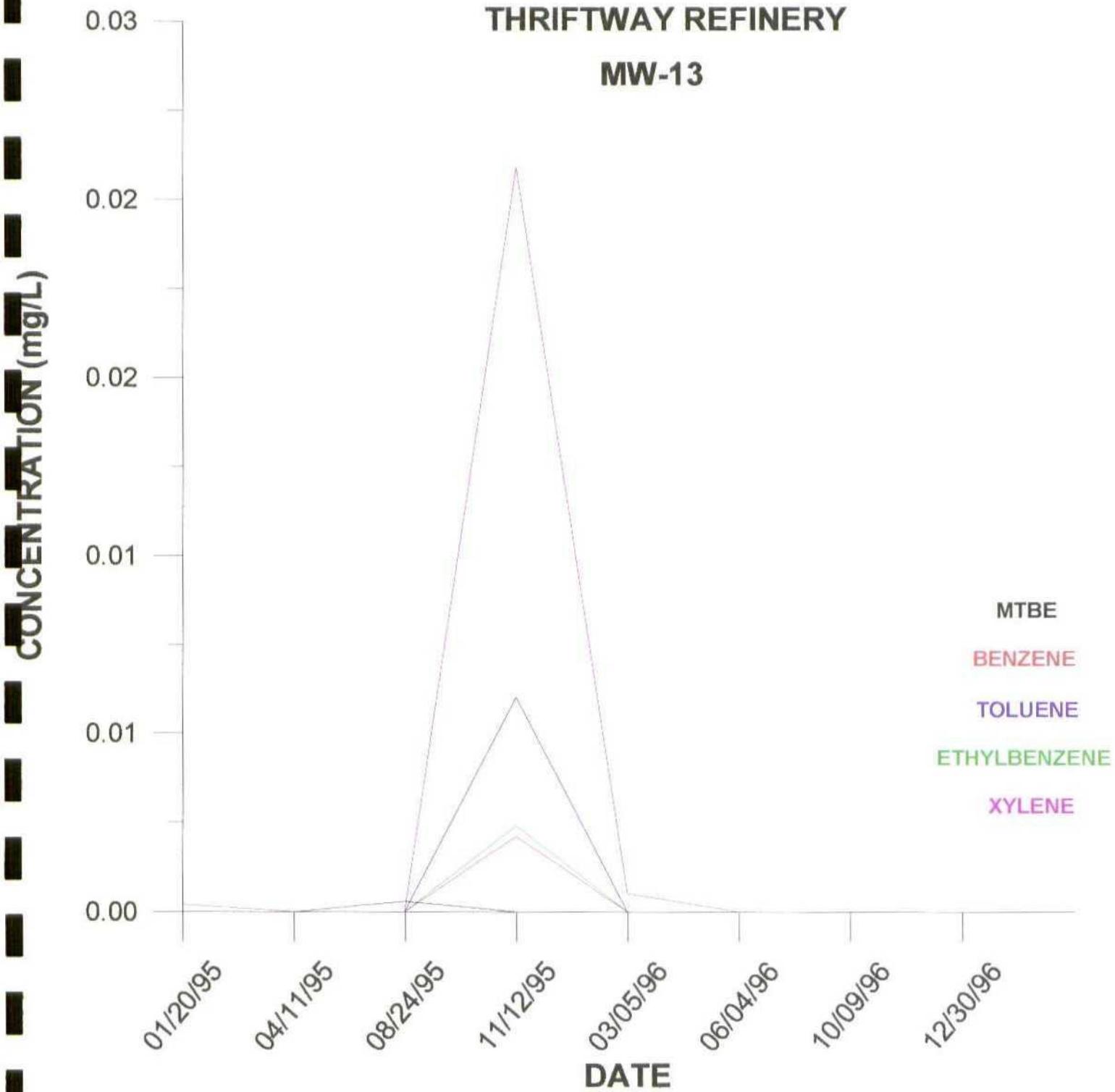
XYLENE

01/17/95 04/11/95 08/24/95 11/12/95 03/05/96 06/03/96 10/09/96 12/31/96

DATE

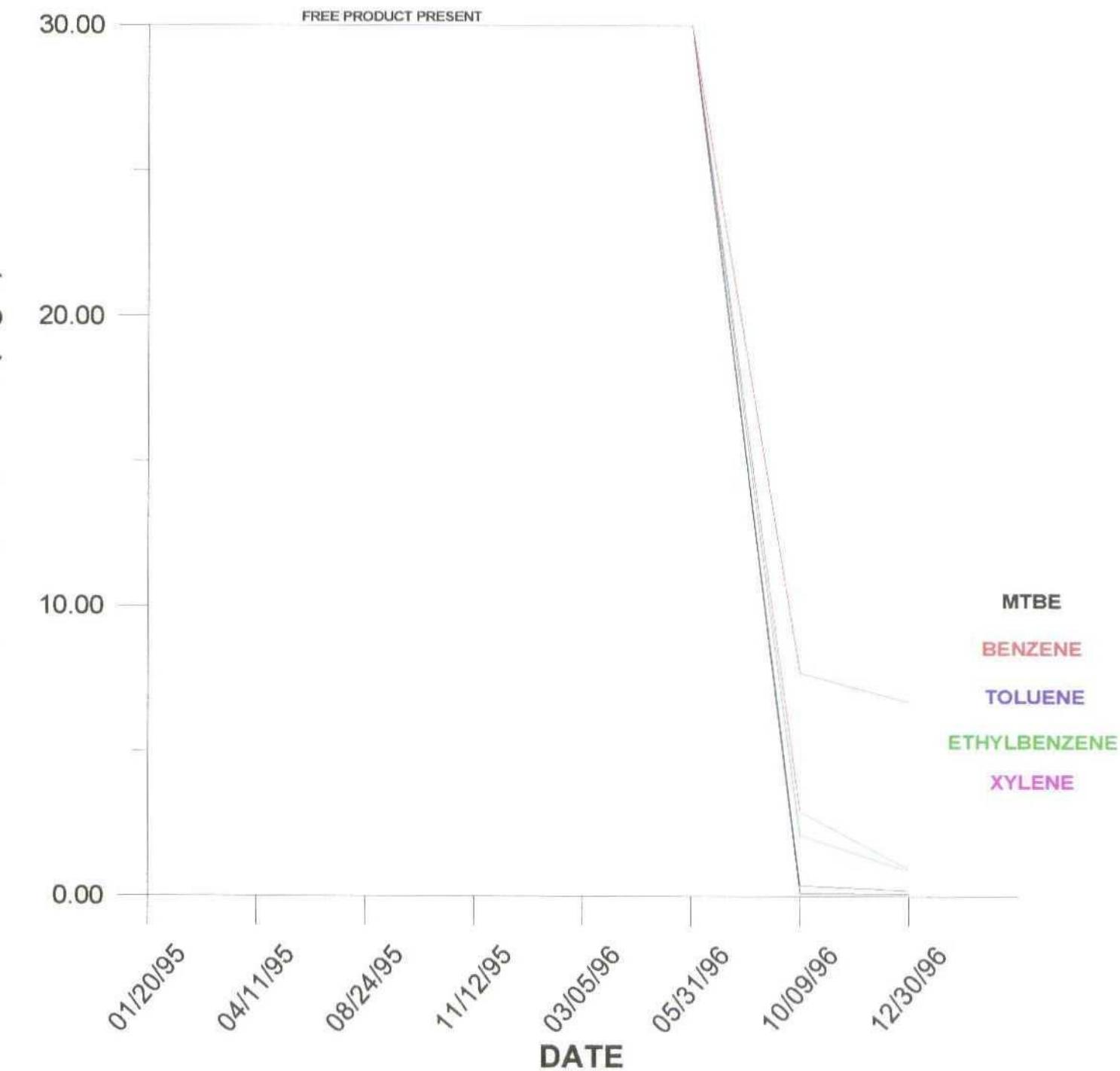


THRIFTWAY REFINERY
MW-13

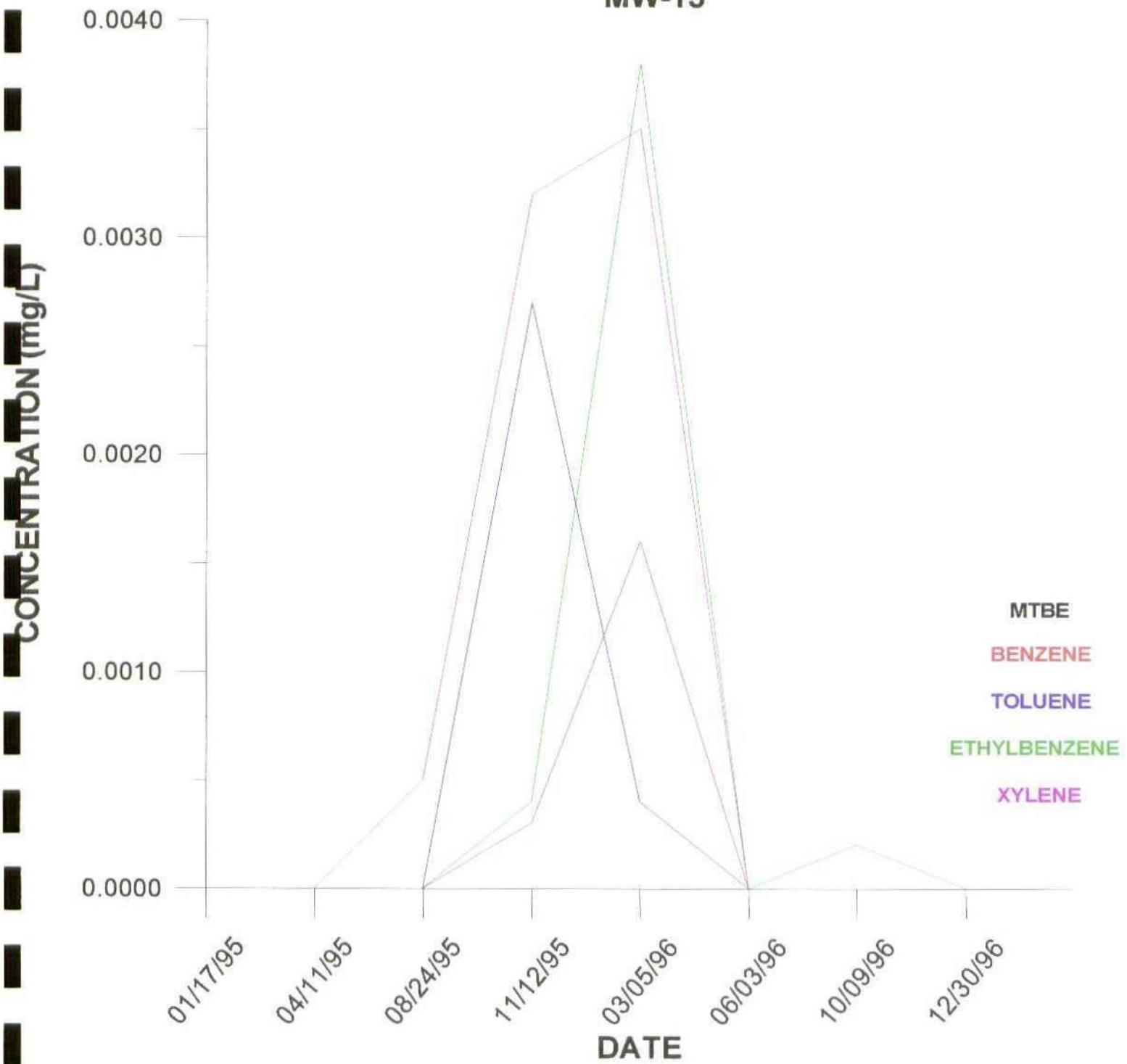


THRIFTWAY REFINERY

MW-14



THRIFTWAY REFINERY
MW-15



THRIFTWAY REFINERY
MW-16

CONCENTRATION (mg/L)

0.0160

0.0120

0.0080

0.0040

0.0000

01/20/95

04/11/95

08/24/95

11/12/95

03/05/96

10/09/96

12/30/96

DATE

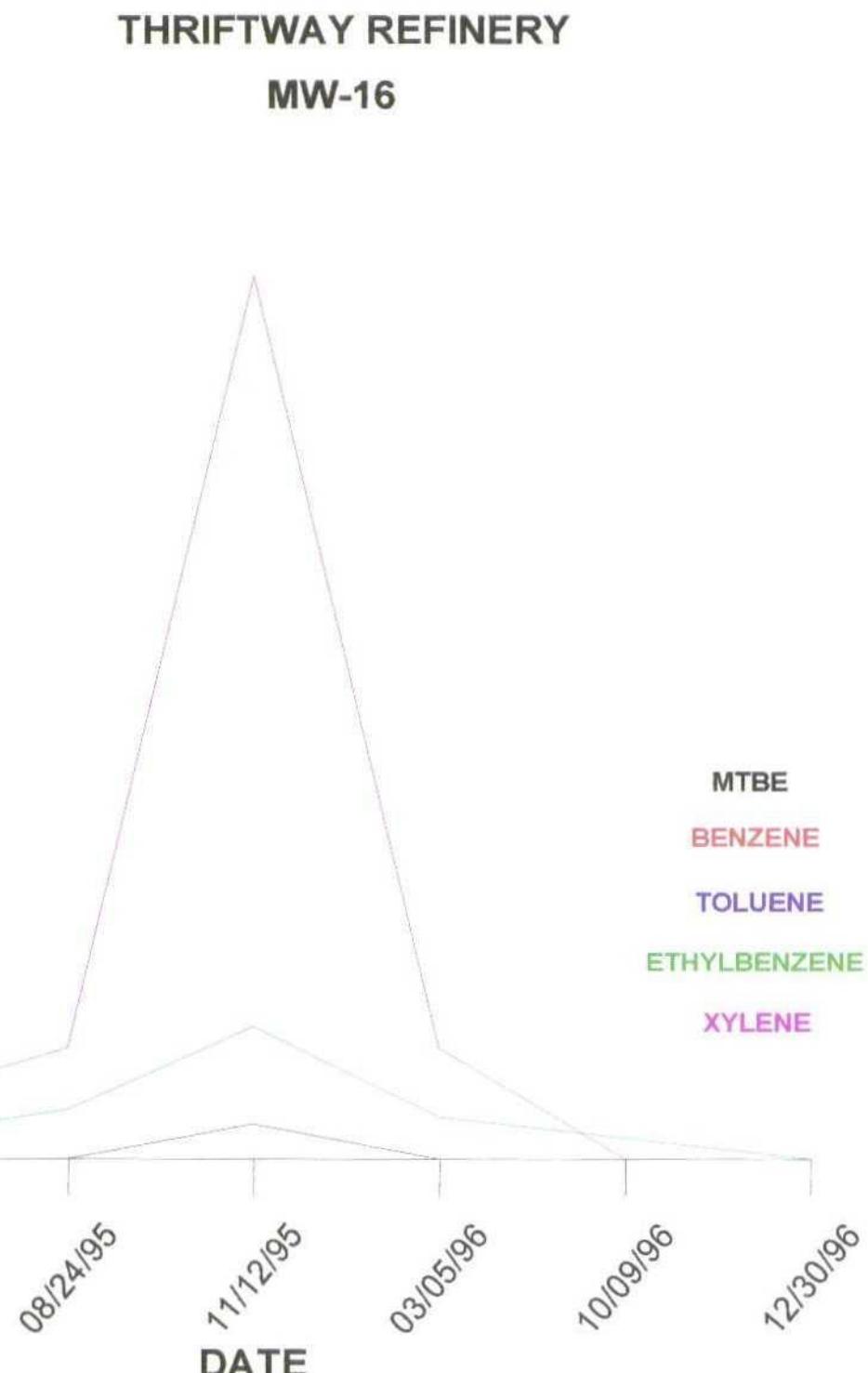
MTBE

BENZENE

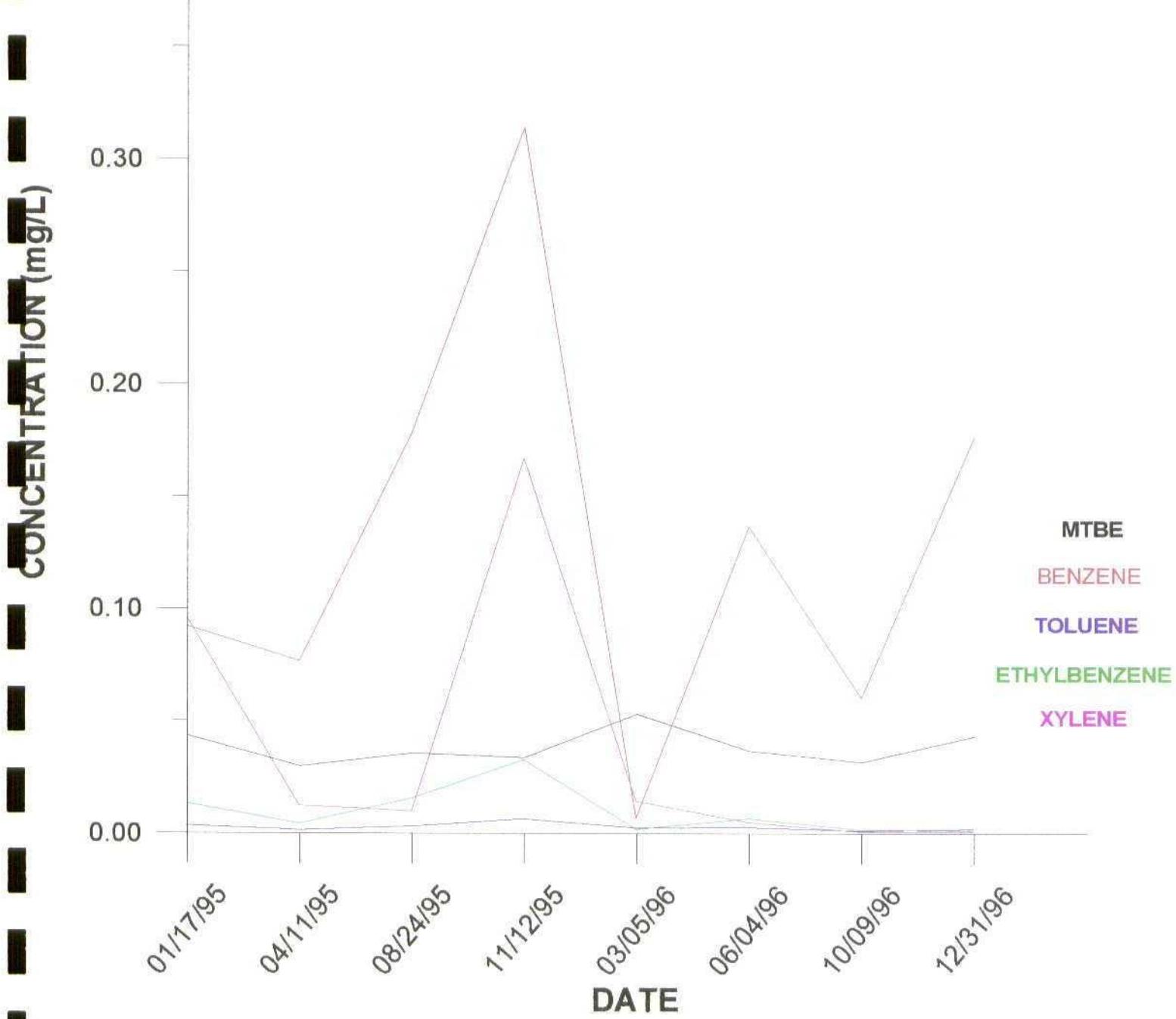
TOLUENE

ETHYLBENZENE

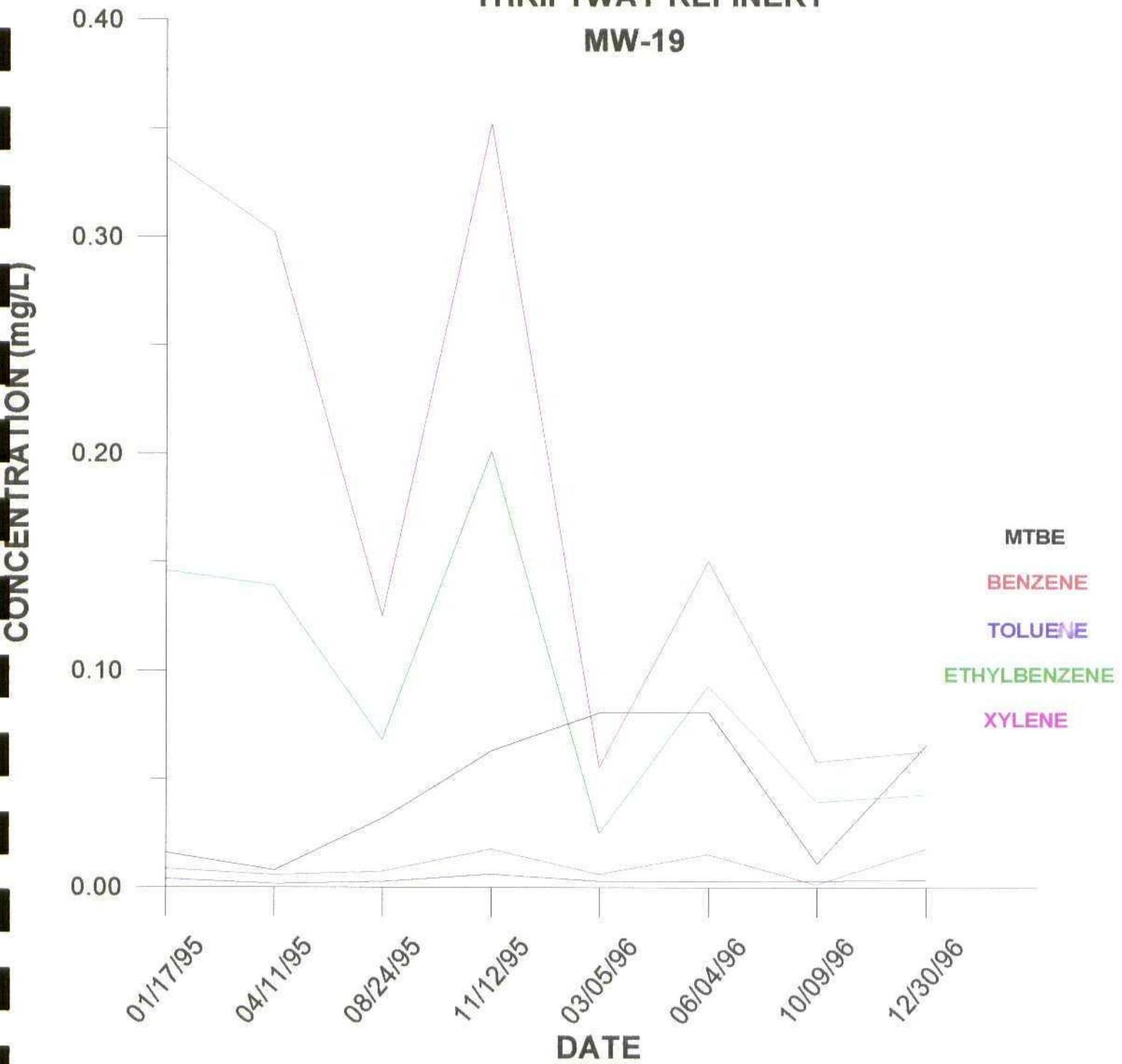
XYLENE



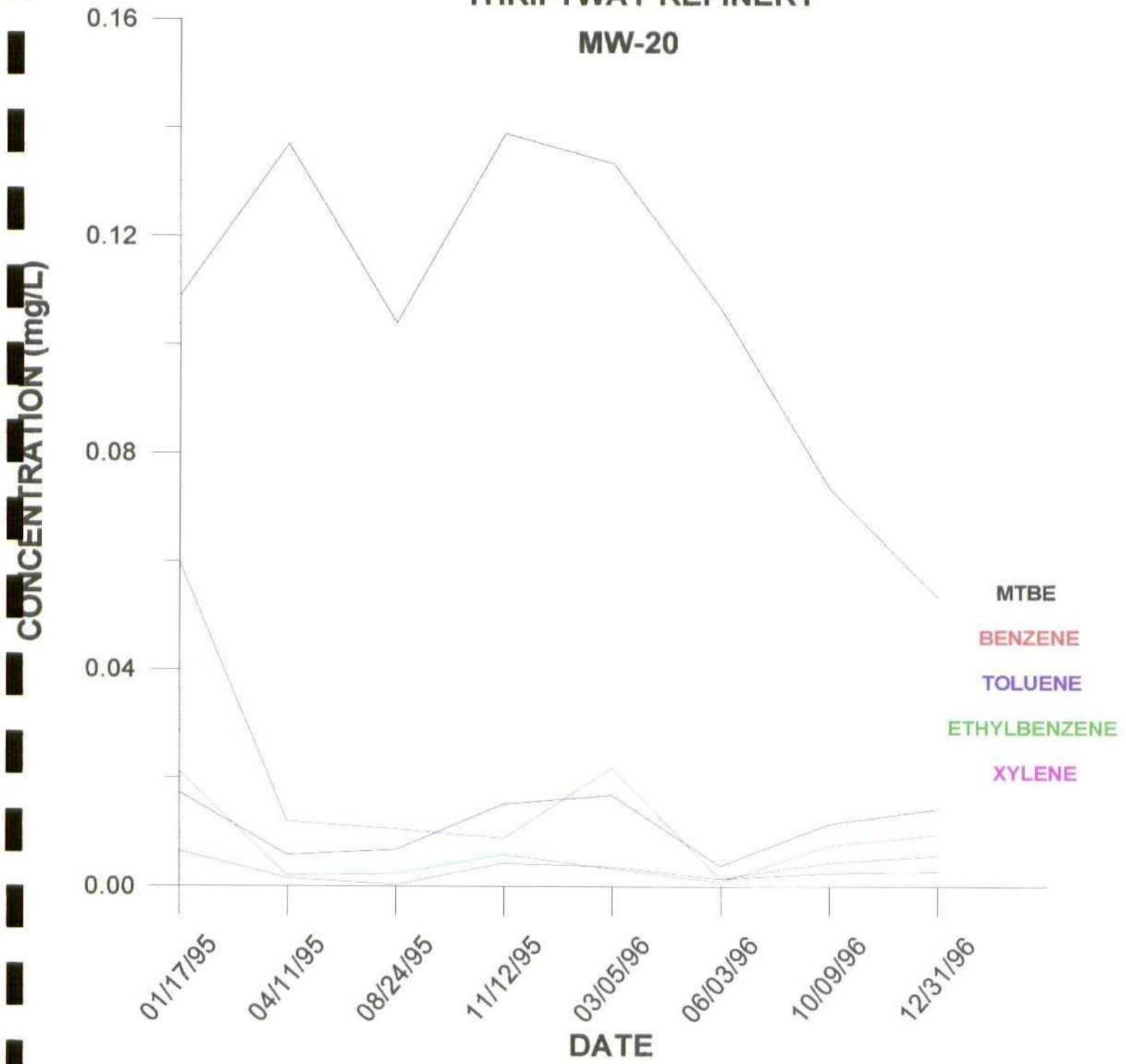
THRIFTWAY REFINERY
MW-18



THRIFTWAY REFINERY
MW-19



THRIFTWAY REFINERY
MW-20



APPENDIX A



OFF: (505) 325-8786

JUL 1 1996

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: *7-Jun-96*
COC No.: *4136*
Sample No. *11089*
Job No. *B2921*

Project Name: *626 Road 5500 Bloomfield, NM*
Project Location: *Travel Blank*
Sampled by: *KS* Date: *3-Jun-96* Time: *10:00*
Analyzed by: *DC* Date: *6-Jun-96*
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	<0.2	ug/L	0.2	ug/L
<i>Benzene</i>	0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	0.3	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	0.6	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	TOTAL	1.2		ug/L

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *JK*
Date: *6/7/96*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-8786

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin* Date: 7-Jun-96
Company: *BioTech Remediation* COC No.: 4136
Address: *710 E 20th Street, Suite 400* Sample No. 11090
City, State: *Farmington, NM 87401* Job No. B2921

Project Name: **626 Road 5500 Bloomfield, NM**
Project Location: **MW-04**
Sampled by: KS Date: 4-Jun-96 Time: 14:25
Analyzed by: DC Date: 6-Jun-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	35.0	ug/L	0.2	ug/L
<i>Benzene</i>	1.0	ug/L	0.2	ug/L
<i>Toluene</i>	3.3	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	3.3	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	5.0	ug/L	0.2	ug/L
<i>o-Xylene</i>	2.0	ug/L	0.2	ug/L
TOTAL		49.6	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *JG*
Date: *6/7/96*

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AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin*

Date: 7-Jun-96

Company: *BioTech Remediation*

COC No.: 4136

Address: *710 E 20th Street, Suite 400*

Sample No. 11091

City, State: *Farmington, NM 87401*

Job No. B2921

Project Name: **626 Road 5500 Bloomfield, NM**

Project Location: **MW-05**

Sampled by: KS Date: 4-Jun-96 Time: 14:15

Analyzed by: DC Date: 6-Jun-96

Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	47.2	ug/L	0.2	ug/L
<i>Benzene</i>	0.3	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	TOTAL	47.7	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Terry Griffin*
Date: *6/7/96*

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AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: *7-Jun-96*
COC No.: *4136*
Sample No. *11092*
Job No. *B2921*

Project Name: **626 Road 5500 Bloomfield, NM**
Project Location: **MW-06**
Sampled by: **KS** Date: **4-Jun-96** Time: **14:55**
Analyzed by: **DC** Date: **6-Jun-96**
Sample Matrix: **Liquid**

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	8.3	ug/L	0.2	ug/L
<i>Benzene</i>	1.0	ug/L	0.2	ug/L
<i>Toluene</i>	2.5	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	0.6	ug/L	0.2	ug/L
	TOTAL	12.9	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Jay*
Date: *6/7/96*

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OFF: (505) 325-8786

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin* Date: 7-Jun-96
Company: *BioTech Remediation* COC No.: 4136
Address: *710 E 20th Street, Suite 400* Sample No. 11093
City, State: *Farmington, NM 87401* Job No. B2921

Project Name: **626 Road 5500 Bloomfield, NM**
Project Location: **MW-09**
Sampled by: KS Date: 3-Jun-96 Time: 15:45
Analyzed by: DC Date: 6-Jun-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	15.8	ug/L	0.2	ug/L
<i>Benzene</i>	0.4	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	TOTAL	16.2	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Jc G*
Date: *6/7/96*

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AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin* Date: 7-Jun-96
Company: *BioTech Remediation* COC No.: 4136
Address: *710 E 20th Street, Suite 400* Sample No. 11094
City, State: *Farmington, NM 87401* Job No. B2921

Project Name: **626 Road 5500 Bloomfield, NM**
Project Location: **MW-10**
Sampled by: KS Date: 3-Jun-96 Time: 15:55
Analyzed by: DC Date: 6-Jun-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	<0.2	ug/L	0.2	ug/L
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>TOTAL</i>		<0.2	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: 6/7/96

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AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin* Date: 7-Jun-96
Company: *BioTech Remediation* COC No.: 4136
Address: *710 E 20th Street, Suite 400* Sample No. 11095
City, State: *Farmington, NM 87401* Job No. B2921

Project Name: **626 Road 5500 Bloomfield, NM**
Project Location: **MW-11**
Sampled by: KS Date: 3-Jun-96 Time: 16:20
Analyzed by: DC Date: 6-Jun-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	<0.2	ug/L	0.2	ug/L
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	TOTAL	<0.2	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Jack*
Date: *6/7/96*

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AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin* Date: 7-Jun-96
Company: *BioTech Remediation* COC No.: 4136
Address: *710 E 20th Street, Suite 400* Sample No. 11096
City, State: *Farmington, NM 87401* Job No. B2921

Project Name: **626 Road 5500 Bloomfield, NM**
Project Location: **Travel Blank**
Sampled by: KS Date: 4-Jun-96 Time: 9:00
Analyzed by: DC Date: 6-Jun-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Methyl-t-Butyl Ether	<0.2	ug/L	0.2	ug/L
Benzene	<0.2	ug/L	0.2	ug/L
Toluene	<0.2	ug/L	0.2	ug/L
Ethylbenzene	<0.2	ug/L	0.2	ug/L
m,p-Xylene	<0.2	ug/L	0.2	ug/L
<i>o</i> -Xylene	<0.2	ug/L	0.2	ug/L
TOTAL		<0.2	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Da G*
Date: *6/7/96*

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LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin* Date: 7-Jun-96
Company: *BioTech Remediation* COC No.: 4136
Address: *710 E 20th Street, Suite 400* Sample No. 11097
City, State: *Farmington, NM 87401* Job No. B2921

Project Name: **626 Road 5500 Bloomfield, NM**
Project Location: **MW-13**
Sampled by: KS Date: 4-Jun-96 Time: 9:30
Analyzed by: DC Date: 6-Jun-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	<0.2	ug/L	0.2	ug/L
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	TOTAL	<0.2	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Terry Griffin*
Date: 6/7/96

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AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin* Date: 7-Jun-96
Company: *BioTech Remediation* COC No.: 4136
Address: *710 E 20th Street, Suite 400* Sample No. 11098
City, State: *Farmington, NM 87401* Job No. B2921

Project Name: **626 Road 5500 Bloomfield, NM**
Project Location: **MW-15**
Sampled by: KS Date: 3-Jun-96 Time: 11:15
Analyzed by: DC Date: 6-Jun-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	<0.2	ug/L	0.2	ug/L
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	TOTAL	<0.2	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Jack*
Date: 6/7/96

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QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 6-Jun-96

<i>Internal QC No.:</i>	0444-STD
<i>Surrogate QC No.:</i>	0445-STD
<i>Reference Standard QC No.:</i>	0355-STD

Method Blank

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

<i>Parameter</i>	<i>Unit of Measure</i>	<i>True Value</i>	<i>Analyzed Value</i>	<i>% Diff</i>	<i>Limit</i>
Methyl-t-Butyl Ether	ppb	20.0	21.1	6	15%
Benzene	ppb	20.0	19.6	2	15%
Toluene	ppb	20.0	19.9	1	15%
Ethylbenzene	ppb	20.0	19.9	0	15%
m,p-Xylene	ppb	40.0	39.1	2	15%
o-Xylene	ppb	20.0	19.8	1	15%

Matrix Spike

<i>Parameter</i>	<i>1- Percent Recovered</i>	<i>2 - Percent Recovered</i>	<i>Limit</i>	<i>%RSD</i>	<i>Limit</i>
Methyl-t-Butyl Ether	94	90	(39-150)	3	20%
Benzene	103	96	(39-150)	5	20%
Toluene	104	98	(46-148)	4	20%
Ethylbenzene	104	97	(32-160)	5	20%
m,p-Xylene	102	95	(35-145)	5	20%
o-Xylene	99	93	(35-145)	5	20%

Surrogate Recoveries

<i>Laboratory Identification</i>	<i>S1 Percent Recovered</i>	<i>S2 Percent Recovered</i>	<i>Laboratory Identification</i>	<i>S1 Percent Recovered</i>	<i>S2 Percent Recovered</i>
Limit Percent Recovery	(70-130)		Limit Percent Recovery	(70-130)	
11089-4136	100		11097-4136	99	
11090-4136	99		11098-4136	99	
11091-4136	98				
11092-4136	98				
11093-4136	99				
11094-4136	99				
11095-4136	100				
11096-4136	102				

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OFF: (505) 325-8786

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AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: *7-Jun-96*
COC No.: *4136*
Sample No. *11099*
Job No. *B2921*

Project Name: **626 Road 5500 Bloomfield, NM**
Project Location: **MW-18**
Sampled by: KS Date: 4-Jun-96 Time: 15:45
Analyzed by: DC Date: 6-Jun-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	36.8	ug/L	0.2	ug/L
<i>Benzene</i>	136.4	ug/L	0.2	ug/L
<i>Toluene</i>	2.5	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	6.6	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	4.0	ug/L	0.2	ug/L
<i>o-Xylene</i>	0.7	ug/L	0.2	ug/L
TOTAL	187.0	ug/L		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *JG*
Date: *6/7/96*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-8786

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: *7-Jun-96*
COC No.: *4137*
Sample No. *11100*
Job No. *B2921*

Project Name: ***626 Road 5500 Bloomfield, NM***
Project Location: ***MW-19***
Sampled by: KS Date: 4-Jun-96 Time: 15:30
Analyzed by: DC Date: 6-Jun-96
Sample Matrix: Liquid

Laboratory Analysis

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Methyl-t-Butyl Ether</i>	80.5	ug/L	0.2	ug/L
<i>Benzene</i>	15.3	ug/L	0.2	ug/L
<i>Toluene</i>	2.8	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	92.9	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	150.0	ug/L	0.2	ug/L
<i>o-Xylene</i>	0.5	ug/L	0.2	ug/L
	<i>TOTAL</i>	342.1		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Jack*
Date: *6/7/96*

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OFF: (505) 325-8786

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin* Date: 7-Jun-96
Company: *BioTech Remediation* COC No.: 4137
Address: *710 E 20th Street, Suite 400* Sample No. 11101
City, State: *Farmington, NM 87401* Job No. B2921

Project Name: **626 Road 5500 Bloomfield, NM**
Project Location: **MW-20**
Sampled by: KS Date: 3-Jun-96 Time: 11:30
Analyzed by: DC Date: 6-Jun-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	106.3	ug/L	0.2	ug/L
<i>Benzene</i>	1.4	ug/L	0.2	ug/L
<i>Toluene</i>	3.8	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	0.8	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	0.8	ug/L	0.2	ug/L
<i>o-Xylene</i>	0.6	ug/L	0.2	ug/L
	TOTAL	113.7		ug/L

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *DAG*
Date: *6/7/96*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-8786

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: *7-Jun-96*
COC No.: *4137*
Sample No. *11102*
Job No. *B2921*

Project Name: **626 Road 5500 Bloomfield, NM**
Project Location: **MW-21**
Sampled by: KS Date: 3-Jun-96 Time: 14:25
Analyzed by: DC Date: 6-Jun-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	82.1	ug/L	0.2	ug/L
<i>Benzene</i>	0.4	ug/L	0.2	ug/L
<i>Toluene</i>	0.3	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	1.1	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	0.9	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	TOTAL	84.8	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *JG*
Date: *6/7/96*

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OFF: (505) 325-8786

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: *7-Jun-96*
COC No.: *4137*
Sample No. *11103*
Job No. *B2921*

Project Name: **626 Road 5500 Bloomfield, NM**
Project Location: **MW-22**
Sampled by: KS Date: 3-Jun-96 Time: 14:50
Analyzed by: DC Date: 6-Jun-96
Sample Matrix: Liquid

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	25.3	ug/L	0.2	ug/L
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	0.4	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	TOTAL	25.7	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Dal*
Date: *6/7/96*

P. O. BOX 2606 • FARMINGTON, NM 87499

— TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT —



OFF: (505) 325-8786

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: *7-Jun-96*
COC No.: *4137*
Sample No. *11104*
Job No. *B2921*

Project Name: *626 Road 5500 Bloomfield, NM*
Project Location: *Stripper Inlet*
Sampled by: *KS* Date: *4-Jun-96* Time: *16:00*
Analyzed by: *DC* Date: *7-Jun-96*
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	95.0	ug/L	0.2	ug/L
<i>Benzene</i>	4607.7	ug/L	0.2	ug/L
<i>Toluene</i>	1794.7	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	523.8	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	2034.9	ug/L	0.2	ug/L
<i>o-Xylene</i>	519.1	ug/L	0.2	ug/L
	TOTAL	9575.2	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Jay*
Date: *6/7/96*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



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LAB: (505) 325-1556
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AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: 16-Oct-96
COC No.: 4157
Sample No. 12536
Job No. 2-1000

Project Name: *Thriftway Refinery 626 CR 5500 Bloomfield, NM*
Project Location: *Travel Blank*
Sampled by: KS Date: 10-Oct-96 Time: 8:00
Analyzed by: DC Date: 16-Oct-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Methyl-t-Butyl Ether	<0.2	ug/L	0.2	ug/L
Benzene	<0.2	ug/L	0.2	ug/L
Toluene	<0.2	ug/L	0.2	ug/L
Ethylbenzene	<0.2	ug/L	0.2	ug/L
m,p-Xylene	<0.2	ug/L	0.2	ug/L
o-Xylene	<0.2	ug/L	0.2	ug/L
TOTAL	<0.2	ug/L		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: 10/16/96

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin* Date: 16-Oct-96
Company: *BioTech Remediation* COC No.: 4157
Address: *710 E 20th Street, Suite 400* Sample No. 12537
City, State: *Farmington, NM 87401* Job No. 2-1000

Project Name: ***Thriftway Refinery 626 CR 5500 Bloomfield, NM***
Project Location: ***MW-14***
Sampled by: KS Date: 10-Oct-96 Time: 9:15
Analyzed by: DC Date: 16-Oct-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	103.7	ug/L	0.2	ug/L
<i>Benzene</i>	7698.8	ug/L	0.2	ug/L
<i>Toluene</i>	361.7	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	2107.7	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	2686.7	ug/L	0.2	ug/L
<i>o-Xylene</i>	231.1	ug/L	0.2	ug/L
	TOTAL	13189.6		ug/L

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: 10/16/96

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin*

Date: 16-Oct-96

Company: *BioTech Remediation*

COC No.: 4157

Address: *710 E 20th Street, Suite 400*

Sample No. 12538

City, State: *Farmington, NM 87401*

Job No. 2-1000

Project Name: *Thriftway Refinery 626 CR 5500 Bloomfield, NM*

Project Location: *MW-24*

Sampled by: *KS* Date: 10-Oct-96 Time: 9:40

Analyzed by: *DC* Date: 16-Oct-96

Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	25.6	ug/L	0.2	ug/L
<i>Benzene</i>	231.7	ug/L	0.2	ug/L
<i>Toluene</i>	114.1	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	122.5	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	761.9	ug/L	0.2	ug/L
<i>o-Xylene</i>	226.9	ug/L	0.2	ug/L
	TOTAL	1482.8		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: *10/16/96*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin* Date: 16-Oct-96
Company: *BioTech Remediation* COC No.: 4157
Address: *710 E 20th Street, Suite 400* Sample No.: 12539
City, State: *Farmington, NM 87401* Job No.: 2-1000

Project Name: ***Thriftway Refinery 626 CR 5500 Bloomfield, NM***
Project Location: ***MW-25***
Sampled by: KS Date: 10-Oct-96 Time: 9:50
Analyzed by: DC Date: 16-Oct-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	1.0	ug/L	0.2	ug/L
<i>Benzene</i>	39.9	ug/L	0.2	ug/L
<i>Toluene</i>	11.3	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	7.4	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	8.5	ug/L	0.2	ug/L
<i>o-Xylene</i>	3.8	ug/L	0.2	ug/L
	TOTAL	71.8	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Dag*
Date: 10/16/96

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin*

Date: 16-Oct-96

Company: *BioTech Remediation*

COC No.: 4157

Address: *710 E 20th Street, Suite 400*

Sample No. 12540

City, State: *Farmington, NM 87401*

Job No. 2-1000

Project Name: *Thriftway Refinery 626 CR 5500 Bloomfield, NM*

Project Location: *Stripper Inlet*

Sampled by: KS Date: 10-Oct-96 Time: 10:30

Analyzed by: DC Date: 16-Oct-96

Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Methyl-t-Butyl Ether	13.2	ug/L	0.2	ug/L
Benzene	3116.0	ug/L	0.2	ug/L
Toluene	1332.2	ug/L	0.2	ug/L
Ethylbenzene	504.2	ug/L	0.2	ug/L
m,p-Xylene	1207.1	ug/L	0.2	ug/L
o-Xylene	380.9	ug/L	0.2	ug/L
TOTAL	6553.7	ug/L		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Dan*
Date: *10/16/96*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin* Date: 16-Oct-96
Company: *BioTech Remediation* COC No.: 4157
Address: *710 E 20th Street, Suite 400* Sample No. 12541
City, State: *Farmington, NM 87401* Job No. 2-1000

Project Name: *Thriftway Refinery 626 CR 5500 Bloomfield, NM*
Project Location: *Stripper Effluent*
Sampled by: KS Date: 10-Oct-96 Time: 10:40
Analyzed by: DC Date: 16-Oct-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	1.2	ug/L	0.2	ug/L
<i>Benzene</i>	3.7	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	1.4	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	3.4	ug/L	0.2	ug/L
<i>o-Xylene</i>	1.0	ug/L	0.2	ug/L
	TOTAL	10.6	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Dan G*
Date: 10/16/96

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin* Date: 16-Oct-96
Company: *BioTech Remediation* COC No.: 4157
Address: *710 E 20th Street, Suite 400* Sample No.: 12542
City, State: *Farmington, NM 87401* Job No.: 2-1000

Project Name: ***Thriftway Refinery 626 CR 5500 Bloomfield, NM***
Project Location: ***Pond***
Sampled by: KS Date: 10-Oct-96 Time: 10:15
Analyzed by: DC Date: 16-Oct-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	<0.2	ug/L	0.2	ug/L
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	0.5	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	0.4	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	<i>TOTAL</i>	0.8	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Joe*
Date: *10/16/96*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 16-Oct-96**Internal QC No.:** 0486-QC**Surrogate QC No.:** 0488-QC**Reference Standard QC No.:** 0417-QC**Method Blank**

Parameter	Result	Unit of Measure
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Parameter	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Methyl-t-Butyl Ether	ppb	20.0	18.1	9	15%
Benzene	ppb	20.0	19.4	3	15%
Toluene	ppb	20.0	20.0	0	15%
Ethylbenzene	ppb	20.0	20.2	1	15%
m,p-Xylene	ppb	40.0	39.9	0	15%
o-Xylene	ppb	20.0	20.0	0	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Methyl-t-Butyl Ether	61	68	(39-150)	8	20%
Benzene	99	101	(39-150)	1	20%
Toluene	102	109	(46-148)	4	20%
Ethylbenzene	105	110	(32-160)	3	20%
m,p-Xylene	102	108	(35-145)	4	20%
o-Xylene	99	105	(35-145)	3	20%

Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered	Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered
Limit Percent Recovery	(70-130)		Limit Percent Recovery	(70-130)	
12536-4157	96				

(P2)

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 16-Oct-96

Internal QC No.: 0486-QC

Surrogate QC No.: 0488-QC

Reference Standard QC No.: 0417-QC

Method Blank

Parameter	Result	Unit of Measure
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Parameter	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Methyl-t-Butyl Ether	ppb	20.0	18.4	8	15%
Benzene	ppb	20.0	19.6	2	15%
Toluene	ppb	20.0	20.3	2	15%
Ethylbenzene	ppb	20.0	20.8	4	15%
m,p-Xylene	ppb	40.0	41.0	2	15%
o-Xylene	ppb	20.0	20.6	3	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Methyl-t-Butyl Ether	61	68	(39-150)	8	20%
Benzene	99	101	(39-150)	1	20%
Toluene	102	109	(46-148)	4	20%
Ethylbenzene	105	110	(32-160)	3	20%
m,p-Xylene	102	108	(35-145)	4	20%
o-Xylene	99	105	(35-145)	3	20%

Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered	Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered
Limit Percent Recovery	(70-130)		Limit Percent Recovery	(70-130)	
12538-4157	96				
12539-4157	95				
12540-4157	98				
12541-4157	96				
12542-4152	96				

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 16-Oct-96

Internal QC No.:	0486-QC
Surrogate QC No.:	0488-QC
Reference Standard QC No.:	0417-QC

Method Blank

Parameter	Result	Unit of Measure
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Parameter	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Methyl-t-Butyl Ether	ppb	20.0	19.4	3	15%
Benzene	ppb	20.0	19.4	3	15%
Toluene	ppb	20.0	19.9	0	15%
Ethylbenzene	ppb	20.0	20.2	1	15%
m,p-Xylene	ppb	40.0	39.9	0	15%
o-Xylene	ppb	20.0	20.1	1	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Methyl-t-Butyl Ether	61	68	(39-150)	8	20%
Benzene	99	101	(39-150)	1	20%
Toluene	102	109	(46-148)	4	20%
Ethylbenzene	105	110	(32-160)	3	20%
m,p-Xylene	102	108	(35-145)	4	20%
o-Xylene	99	105	(35-145)	3	20%

Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered	Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered
Limit Percent Recovery	(70-130)		Limit Percent Recovery	(70-130)	
12537-4157	100				

(22)

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

ON SITE

TECHNOLOGIES, LTD.

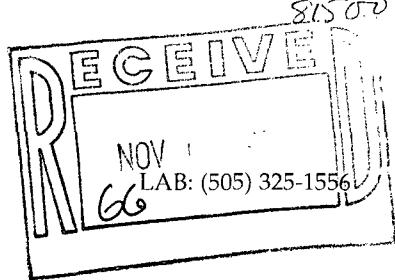
657 W. Maple • P.O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

CHAIN OF CUSTODY RECORD

Date: 10/10/96 Page 3 of 5

Purchase Order No.:		Job No.:	Name		Same	Title																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Sampling Location: <i>Thick Flat Top Butte</i> <i>626 Rd 5500</i> <i>Blown Field, NM</i>		<table border="1"> <thead> <tr> <th colspan="2">Number of Containers</th> <th colspan="4">Containers</th> <th>LAB ID</th> </tr> <tr> <th colspan="2"></th> <th colspan="4"></th> <th></th> </tr> </thead> <tbody> <tr> <td colspan="2">1</td> <td colspan="4">1</td> <td>12345678901234567890</td> </tr> <tr> <td colspan="2">2</td> <td colspan="4">2</td> <td>12345678901234567890</td> </tr> <tr> <td colspan="2">3</td> <td colspan="4">3</td> <td>12345678901234567890</td> </tr> <tr> <td colspan="2">4</td> <td colspan="4">4</td> <td>12345678901234567890</td> </tr> <tr> <td colspan="2">5</td> <td colspan="4">5</td> <td>12345678901234567890</td> </tr> <tr> <td colspan="2">6</td> <td colspan="4">6</td> <td>12345678901234567890</td> </tr> <tr> <td colspan="2">7</td> <td colspan="4">7</td> <td>12345678901234567890</td> </tr> <tr> <td colspan="2">8</td> <td colspan="4">8</td> <td>12345678901234567890</td> </tr> <tr> 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OFF: (505) 325-5667



AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: *15-Oct-96*
COC No.: *4156*
Sample No. *12527*
Job No. *2-1000*

Project Name: *Thriftway Refinery 626 CR 5500 Bloomfield, NM*
Project Location: *Travel Blank*
Sampled by: *KS* Date: *9-Oct-96* Time: *8:00*
Analyzed by: *DC* Date: *15-Oct-96*
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Methyl-t-Butyl Ether	<0.2	ug/L	0.2	ug/L
Benzene	<0.2	ug/L	0.2	ug/L
Toluene	<0.2	ug/L	0.2	ug/L
Ethylbenzene	<0.2	ug/L	0.2	ug/L
m,p-Xylene	<0.2	ug/L	0.2	ug/L
o-Xylene	<0.2	ug/L	0.2	ug/L
	TOTAL	<0.2		ug/L

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: *10/16/96*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: *15-Oct-96*
COC No.: *4156*
Sample No. *12528*
Job No. *2-1000*

Project Name: *Thriftway Refinery 626 CR 5500 Bloomfield, NM*
Project Location: *MW-1*
Sampled by: *KS* Date: *9-Oct-96* Time: *15:15*
Analyzed by: *DC* Date: *15-Oct-96*
Sample Matrix: *Liquid*

Laboratory Analysis

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Methyl-t-Butyl Ether</i>	244.6	ug/L	0.2	ug/L
<i>Benzene</i>	255.1	ug/L	0.2	ug/L
<i>Toluene</i>	10.9	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	36.5	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	180.8	ug/L	0.2	ug/L
<i>o-Xylene</i>	12.0	ug/L	0.2	ug/L
	TOTAL	739.9		ug/L

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: *10/16/96*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin*

Date: 15-Oct-96

Company: *BioTech Remediation*

COC No.: 4156

Address: *710 E 20th Street, Suite 400*

Sample No. 12529

City, State: *Farmington, NM 87401*

Job No. 2-1000

Project Name: *Thriftway Refinery 626 CR 5500 Bloomfield, NM*

Project Location: *MW-3*

Sampled by: *KS* Date: 9-Oct-96 Time: 15:00

Analyzed by: *DC* Date: 15-Oct-96

Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	224.7	ug/L	0.2	ug/L
<i>Benzene</i>	41.7	ug/L	0.2	ug/L
<i>Toluene</i>	4.0	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	5.8	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	2.6	ug/L	0.2	ug/L
<i>o-Xylene</i>	1.7	ug/L	0.2	ug/L
	TOTAL	280.5		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by:

Date:

A handwritten signature in black ink, appearing to read "Terry Griffin". To the right of the signature, the date "10/16/96" is written in a smaller, printed-style font.

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin*

Date: 15-Oct-96

Company: *BioTech Remediation*

COC No.: 4156

Address: *710 E 20th Street, Suite 400*

Sample No. 12530

City, State: *Farmington, NM 87401*

Job No. 2-1000

Project Name: *Thriftway Refinery 626 CR 5500 Bloomfield, NM*

Project Location: *MW-4*

Sampled by: KS Date: 9-Oct-96 Time: 10:46

Analyzed by: DC Date: 15-Oct-96

Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	33.0	ug/L	0.2	ug/L
<i>Benzene</i>	0.9	ug/L	0.2	ug/L
<i>Toluene</i>	2.1	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	2.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	0.7	ug/L	0.2	ug/L
<i>o-Xylene</i>	0.5	ug/L	0.2	ug/L
	TOTAL	39.5	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Dan G*
Date: *10/16/96*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn:	Terry Griffin	Date:	15-Oct-96
Company:	BioTech Remediation	COC No.:	4156
Address:	710 E 20th Street, Suite 400	Sample No.	12531
City, State:	Farmington, NM 87401	Job No.	2-1000

Project Name:	Thriftway Refinery 626 CR 5500 Bloomfield, NM		
Project Location:	MW-5		
Sampled by:	KS	Date:	9-Oct-96 Time: 11:15
Analyzed by:	DC	Date:	15-Oct-96
Sample Matrix:	Liquid		

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	48.6	ug/L	0.2	ug/L
<i>Benzene</i>	0.6	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	TOTAL	49.3	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Dan*
Date: 10/16/96

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LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin*

Date: 15-Oct-96

Company: *BioTech Remediation*

COC No.: 4156

Address: *710 E 20th Street, Suite 400*

Sample No. 12532

City, State: *Farmington, NM 87401*

Job No. 2-1000

Project Name: *Thriftway Refinery 626 CR 5500 Bloomfield, NM*

Project Location: *MW-6*

Sampled by: *KS* Date: 9-Oct-96 Time: 10:25

Analyzed by: *DC* Date: 15-Oct-96

Sample Matrix: *Liquid*

Laboratory Analysis

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Methyl-t-Butyl Ether</i>	33.5	ug/L	0.2	ug/L
<i>Benzene</i>	1.9	ug/L	0.2	ug/L
<i>Toluene</i>	3.7	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	3.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	1.0	ug/L	0.2	ug/L
<i>o-Xylene</i>	0.3	ug/L	0.2	ug/L
	TOTAL	43.6	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Dan G*
Date: 10/16/96

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AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin* Date: 15-Oct-96
Company: *BioTech Remediation* COC No.: 4156
Address: *710 E 20th Street, Suite 400* Sample No. 12533
City, State: *Farmington, NM 87401* Job No. 2-1000

Project Name: ***Thriftway Refinery 626 CR 5500 Bloomfield, NM***
Project Location: ***MW-18***
Sampled by: KS Date: 9-Oct-96 Time: 14:40
Analyzed by: DC Date: 15-Oct-96
Sample Matrix: Liquid

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	31.9	ug/L	0.2	ug/L
<i>Benzene</i>	60.1	ug/L	0.2	ug/L
<i>Toluene</i>	1.1	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	1.5	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	0.7	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	<i>TOTAL</i>	95.3	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *David*
Date: *10/16/96*

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LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin* Date: 15-Oct-96
Company: *BioTech Remediation* COC No.: 4156
Address: *710 E 20th Street, Suite 400* Sample No. 12534
City, State: *Farmington, NM 87401* Job No. 2-1000

Project Name: ***Thriftway Refinery 626 CR 5500 Bloomfield, NM***
Project Location: ***MW-19***
Sampled by: KS Date: 9-Oct-96 Time: 10:10
Analyzed by: DC Date: 15-Oct-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	11.1	ug/L	0.2	ug/L
<i>Benzene</i>	1.4	ug/L	0.2	ug/L
<i>Toluene</i>	3.0	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	39.5	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	57.6	ug/L	0.2	ug/L
<i>o-Xylene</i>	0.4	ug/L	0.2	ug/L
	<i>TOTAL</i>	113.0	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: 10/16/96

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AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin* Date: 15-Oct-96
Company: *BioTech Remediation* COC No.: 4156
Address: *710 E 20th Street, Suite 400* Sample No. 12535
City, State: *Farmington, NM 87401* Job No. 2-1000

Project Name: ***Thriftway Refinery 626 CR 5500 Bloomfield, NM***
Project Location: ***MW-21***
Sampled by: KS Date: 9-Oct-96 Time: 10:00
Analyzed by: DC Date: 15-Oct-96
Sample Matrix: Liquid

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	46.0	ug/L	0.2	ug/L
<i>Benzene</i>	0.7	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	0.5	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	0.3	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	TOTAL	47.6	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

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Date: 10/16/96

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QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 15-Oct-96**Internal QC No.:** 0486-QC**Surrogate QC No.:** 0488-QC**Reference Standard QC No.:** 0417-QC**Method Blank**

Parameter	Result	Unit of Measure
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Parameter	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Methyl-t-Butyl Ether	ppb	20.0	17.9	10	15%
Benzene	ppb	20.0	18.6	7	15%
Toluene	ppb	20.0	19.1	4	15%
Ethylbenzene	ppb	20.0	19.4	3	15%
m,p-Xylene	ppb	40.0	38.4	4	15%
o-Xylene	ppb	20.0	19.2	4	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Methyl-t-Butyl Ether	61	68	(39-150)	8	20%
Benzene	99	101	(39-150)	1	20%
Toluene	102	109	(46-148)	4	20%
Ethylbenzene	105	110	(32-160)	3	20%
m,p-Xylene	102	108	(35-145)	4	20%
o-Xylene	99	105	(35-145)	3	20%

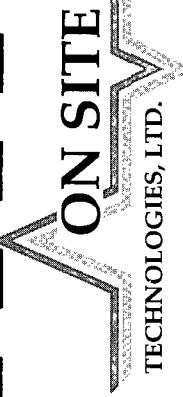
Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered	Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered
Limit Percent Recovery	(70-130)		Limit Percent Recovery	(70-130)	
12527-4156	97		12534-4156	95	
12528-4156	96		12535-4156	96	
12529-4156	96				
12530-4156	95				
12531-4156	96				
12532-4156	95				
12533-4156	96				

(PQ)

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CHAIN OF CUSTODY RECORD

Date: 10/10/96 Page 2 of 5

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LAB: (505) 325-5667 • FAX: (505) 325-6256

Purchase Order No.:	Job No.:	SAMPLE IDENTIFICATION			CONTAINERS			REPORT TO	RESULTS TO	Name	Title
Name	Terry G. C. C.	SAMPLE DATE	TIME	MATRIX	CONTAINER	NUMBER	LAB ID	Company	Company		
Company	BioStech Remediation, Inc.										
Address	210 E. 2nd Street, Suite 400										
City, State, Zip	Farmington, NM 87401										
Sampling Location:	Thriftway Refinery 626 Rd 5500 Brownfield, NM										
Sampler:	Ken Sicks										
ANALYSIS REQUESTED											
Rush											
24-48 Hours											
10 Working Days											
Special Instructions:											
Relinquished by:	Date/Time received:			Received by:			Date/Time issued:				
Relinquished by:	Date/Time			Received by:			Date/Time				
Relinquished by:	Date/Time			Received by:			Date/Time				
Method of Shipment:											
Authorized by:	(Client Signature Must Accompany Request)										
Date _____											
Distribution: White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client											



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AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin*
 Company: *BioTech Remediation*
 Address: *710 E 20th Street, Suite 400*
 City, State: *Farmington, NM 87401*

Date: 15-Oct-96
 COC No.: 4155
 Sample No. 12518
 Job No. 2-1000

Project Name: *Thriftway Refinery 626 CR 5500 Bloomfield, NM*
 Project Location: *Travel Blank*
 Sampled by: KS Date: 8-Oct-96 Time: 8:00
 Analyzed by: DC Date: 14-Oct-96
 Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	<0.2	ug/L	0.2	ug/L
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	TOTAL	<0.2		ug/L

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
 Date: *10/15/96*



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LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin* Date: 15-Oct-96
Company: *BioTech Remediation* COC No.: 4155
Address: *710 E 20th Street, Suite 400* Sample No. 12519
City, State: *Farmington, NM 87401* Job No. 2-1000

Project Name: ***Thriftway Refinery 626 CR 5500 Bloomfield, NM***
Project Location: ***MW-9***
Sampled by: KS Date: 8-Oct-96 Time: 15:30
Analyzed by: DC Date: 14-Oct-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	16.5	ug/L	0.2	ug/L
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	<i>TOTAL</i>	16.5	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: 10/15/96

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AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin* Date: 15-Oct-96
Company: *BioTech Remediation* COC No.: 4155
Address: *710 E 20th Street, Suite 400* Sample No. 12520
City, State: *Farmington, NM 87401* Job No. 2-1000

Project Name: *Thriftway Refinery 626 CR 5500 Bloomfield, NM*
Project Location: *MW-10*
Sampled by: KS Date: 8-Oct-96 Time: 14:40
Analyzed by: DC Date: 14-Oct-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	<0.2	ug/L	0.2	ug/L
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	TOTAL	<0.2	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: 10/15/96

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AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin* Date: 15-Oct-96
Company: *BioTech Remediation* COC No.: 4155
Address: *710 E 20th Street, Suite 400* Sample No.: 12521
City, State: *Farmington, NM 87401* Job No.: 2-1000

Project Name: ***Thriftway Refinery 626 CR 5500 Bloomfield, NM***
Project Location: ***MW-11***
Sampled by: KS Date: 8-Oct-96 Time: 15:00
Analyzed by: DC Date: 14-Oct-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	<0.2	ug/L	0.2	ug/L
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>TOTAL</i>		<0.2	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: 10/15/96



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AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin* Date: 15-Oct-96
Company: *BioTech Remediation* COC No.: 4155
Address: *710 E 20th Street, Suite 400* Sample No. 12522
City, State: *Farmington, NM 87401* Job No. 2-1000

Project Name: ***Thriftway Refinery 626 CR 5500 Bloomfield, NM***
Project Location: ***MW-13***
Sampled by: KS Date: 8-Oct-96 Time: 12:00
Analyzed by: DC Date: 14-Oct-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	<0.2	ug/L	0.2	ug/L
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	TOTAL	<0.2	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: 10/15/96

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LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 14-Oct-96

Internal QC No.:	0486-QC
Surrogate QC No.:	0488-QC
Reference Standard QC No.:	0417-QC

Method Blank

Parameter	Result	Unit of Measure
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Parameter	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Methyl-t-Butyl Ether	ppb	20.0	18.6	7	15%
Benzene	ppb	20.0	19.3	4	15%
Toluene	ppb	20.0	19.9	0	15%
Ethylbenzene	ppb	20.0	20.1	1	15%
m,p-Xylene	ppb	40.0	39.8	0	15%
o-Xylene	ppb	20.0	20.0	0	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Methyl-t-Butyl Ether	82	83	(39-150)	1	20%
Benzene	93	91	(39-150)	1	20%
Toluene	96	94	(46-148)	1	20%
Ethylbenzene	97	95	(32-160)	1	20%
m,p-Xylene	96	94	(35-145)	1	20%
o-Xylene	96	95	(35-145)	1	20%

Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered	Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered
Limit Percent Recovery	(70-130)		Limit Percent Recovery	(70-130)	
12518-4155	96				
12519-4155	96				
12520-4155	96				
12521-4155	96				
12522-4155	97				

(D)

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AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin*

Date: 15-Oct-96

Company: *BioTech Remediation*

COC No.: 4155

Address: *710 E 20th Street, Suite 400*

Sample No. 12523

City, State: *Farmington, NM 87401*

Job No. 2-1000

Project Name: ***Thriftway Refinery 626 CR 5500 Bloomfield, NM***

Project Location: ***MW-15***

Sampled by: KS Date: 8-Oct-96 Time: 11:15

Analyzed by: DC Date: 15-Oct-96

Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	<0.2	ug/L	0.2	ug/L
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
TOTAL		0.2	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by:

Date:

A handwritten signature in black ink, appearing to read "Terry Griffin". Below the signature, the date "10/16/96" is handwritten.

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AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin* Date: 15-Oct-96
Company: *BioTech Remediation* COC No.: 4155
Address: *710 E 20th Street, Suite 400* Sample No. 12524
City, State: *Farmington, NM 87401* Job No. 2-1000

Project Name: *Thriftway Refinery 626 CR 5500 Bloomfield, NM*
Project Location: *MW-16*
Sampled by: KS Date: 8-Oct-96 Time: 12:45
Analyzed by: DC Date: 15-Oct-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	<0.2	ug/L	0.2	ug/L
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	0.3	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	TOTAL	0.3		ug/L

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: 10/16/96

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AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin* Date: 15-Oct-96
Company: *BioTech Remediation* COC No.: 4155
Address: *710 E 20th Street, Suite 400* Sample No. 12525
City, State: *Farmington, NM 87401* Job No. 2-1000

Project Name: ***Thriftway Refinery 626 CR 5500 Bloomfield, NM***
Project Location: ***MW-20***
Sampled by: KS Date: 8-Oct-96 Time: 16:20
Analyzed by: DC Date: 15-Oct-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	73.3	ug/L	0.2	ug/L
<i>Benzene</i>	2.5	ug/L	0.2	ug/L
<i>Toluene</i>	11.5	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	7.5	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	3.4	ug/L	0.2	ug/L
<i>o-Xylene</i>	1.0	ug/L	0.2	ug/L
	<i>TOTAL</i>	99.2	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: *10/16/96*

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LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin* Date: 15-Oct-96
Company: *BioTech Remediation* COC No.: 4155
Address: *710 E 20th Street, Suite 400* Sample No. 12526
City, State: *Farmington, NM 87401* Job No. 2-1000

Project Name: ***Thriftway Refinery 626 CR 5500 Bloomfield, NM***
Project Location: ***MW-22***
Sampled by: KS Date: 8-Oct-96 Time: 16:50
Analyzed by: DC Date: 15-Oct-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	22.9	ug/L	0.2	ug/L
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	<i>TOTAL</i>	22.9	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: *10/16/96*

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OFF: (505) 325-5667



LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 15-Oct-96

Internal QC No.: 0486-QC

Surrogate QC No.: 0488-QC

Reference Standard QC No.: 0417-QC

Method Blank

Parameter	Result	Unit of Measure
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Parameter	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Methyl-t-Butyl Ether	ppb	20.0	17.6	12	15%
Benzene	ppb	20.0	18.9	6	15%
Toluene	ppb	20.0	19.3	4	15%
Ethylbenzene	ppb	20.0	19.5	3	15%
m,p-Xylene	ppb	40.0	38.5	4	15%
o-Xylene	ppb	20.0	19.2	4	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Methyl-t-Butyl Ether	61	68	(39-150)	8	20%
Benzene	99	101	(39-150)	1	20%
Toluene	102	109	(46-148)	4	20%
Ethylbenzene	105	110	(32-160)	3	20%
m,p-Xylene	102	108	(35-145)	4	20%
o-Xylene	99	105	(35-145)	3	20%

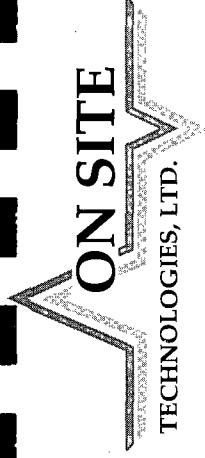
Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered	Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered
Limit Percent Recovery	(70-130)		Limit Percent Recovery	(70-130)	
12523-4155	96				
12524-4155	96				
12525-4155	94				
12526-4155	96				

(pc)

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



CHAIN OF CUSTODY RECORD

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

TECHNOLOGIES, LTD.

Date: 10/10/96

Page _____ / _____ of _____

Purchase Order No.: Job No.

OFF: (505) 325-5667



ANALYTICAL REPORT

Attn: Terry Griffin
Company: BioTech Remediation
Address: 710 E 20th Street, Suite 400
City, State: Farmington, NM 87401

Date: 16-Oct-96
COC No.: 4158
Sample ID: 12543
Job No.: 2-1000

Project Name: Thriftway Refinery 626 CR 5500 Bloomfield, NM
Project Location: Stripper Inlet
Sampled by: KS Date: 10-Oct-96 Time: 10:30
Analyzed by: HR Date: 14-Oct-96

Laboratory Analysis

Parameter	Result	Unit of Measure		Result	Unit of Measure	
<i>Cations</i>						
Sodium Na	863	mg/L		37.52	me/L	
Calcium Ca	335	mg/L		16.72	me/L	
Magnesium Mg	33.5	mg/L		2.76	me/L	
Potassium K	9.2	mg/L		0.23	me/L	
<i>Anions</i>						
Chloride Cl	1212	mg/L		34.19	me/L	
Sulfate SO ₄	1374	mg/L		28.61	me/L	
Carbonate CO ₃ as CaCO ₃	< 1	mg/L		< 0.01	me/L	
Bicarbonate HCO ₃ as CaCO ₃	< 1	mg/L		< 0.01	me/L	
Hydroxide OH as CaCO ₃	< 1	mg/L		< 0.01	me/L	
Total Dissolved Solids						
Calculated, Sum of Cation/Anion	3826	mg/L				
Total Dissolved Solids						
Dried @ 180 C	3430	mg/L				
pH	2.06					
Conductivity @ 25 C	7620	uS/cm				
Total Hardness as CaCO ₃	974	mg/L				
<i>Cation-Anion Balance</i>						
				5.57	Difference Cation-Anion, me/L	
				120.02	Total Cation-Anion, me/L	
				4.6	% Difference Cation-Anion	
<i>Comments</i>						

Approved by:

Date:

A handwritten signature of Terry Griffin over the date line.

10/16/96

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Terry Griffin* Date: 16-Oct-96
 Company: *BioTech Remediation* COC No.: 4158
 Address: *710 E 20th Street, Suite 400* Sample ID: 12544
 City, State: *Farmington, NM 87401* Job No.: 2-1000

Project Name: ***Thriftway Refinery 626 CR 5500 Bloomfield, NM***
 Project Location: ***Stripper Effluent***
 Sampled by: KS Date: 10-Oct-96 Time: 10:40
 Analyzed by: HR Date: 14-Oct-96

Laboratory Analysis

Parameter	Result	Unit of Measure	Result	Unit of Measure
<i>Cations</i>				
Sodium Na	878	mg/L	38.17	me/L
Calcium Ca	345	mg/L	17.22	me/L
Magnesium Mg	34.8	mg/L	2.86	me/L
Potassium K	9.3	mg/L	0.24	me/L
<i>Anions</i>				
Chloride Cl	1047	mg/L	29.53	me/L
Sulfate SO ₄	1419	mg/L	29.54	me/L
Carbonate CO ₃ as CaCO ₃	<1	mg/L	<0.01	me/L
Bicarbonate HCO ₃ as CaCO ₃	<1	mg/L	<0.01	me/L
Hydroxide OH as CaCO ₃	<1	mg/L	<0.01	me/L
<i>Total Dissolved Solids</i>				
Calculated, Sum of Cation/Anion	3733	mg/L	<i>Cation-Anion Balance</i>	
Total Dissolved Solids			0.59 Difference Cation-Anion, me/L	
Dried @ 180 C	3562	mg/L	117.56 Total Cation-Anion, me/L	
pH	2.50		0.5 % Difference Cation-Anion	
Conductivity @ 25 C	6070	uS/cm	<i>Comments</i>	
Total Hardness as CaCO ₃	1005	mg/L		

Approved by:

Date:

A handwritten signature in black ink, appearing to read "Terry Griffin".

10/16/96

OFF: (505) 325-5667



LAB: (505) 325-1556

QUALITY ASSURANCE REPORT*Cation/Anion Balance***Date:** 14-Oct-96***Quality Control Sample***

Parameter	Laboratory Identification	True Value	Analyzed Value	Unit of Measure	% Diff	Limit % Diff
Sodium, Na	0507-QC	3.60	3.81	mg/L	6	10
Calcium, Ca	0454-QC	3.11	3.19	mg/L	3	10
Magnesium, Mg	0454-QC	0.97	0.94	mg/L	-3	10
Potassium, K	0507-QC	2.24	2.27	mg/L	1	10
Chloride, Cl	0507-QC	155	151	mg/L	-3	10
Sulfate, SO ₄	0507-QC	116	120	mg/L	3	10
Alkalinity	0507-QC	174	190	mg/L	9	10
pH	0507-QC	9.05	9.21		2	10
Conductivity	0507-QC	1210	1172	uS/cm	-3	15
Total Dissolved Solids, 180C	0507-QC	905	884	uS/cm	-2	15

Matrix Spike

Parameter	Laboratory Identification	Analyzed Value	Matrix Spike	Spike Value	Unit of Measure	Spike Recovery
Sodium, Na	12544-4158	1.76	0.50	2.28	mg/L	101%
Calcium, Ca	12544-4158	0.69	0.50	1.15	mg/L	97%
Magnesium, Mg	12544-4158	0.70	0.50	1.16	mg/L	97%
Potassium, K	12544-4158	0.92	0.50	1.30	mg/L	92%

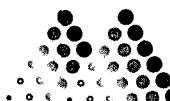
Method Blank

Parameter	Laboratory Identification	Analyzed Value	Unit of Measure
Sodium, Na	LF-Blank	<0.2	mg/L
Calcium, Ca	LF-Blank	<0.05	mg/L
Magnesium, Mg	LF-Blank	<0.05	mg/L
Potassium, K	LF-Blank	<0.05	mg/L
Chloride, Cl	LF-Blank	<3 X DL	mg/L
Sulfate, SO ₄	LF-Blank	<1	mg/L
Conductivity	LF-Blank	<2	uS/cm

(p)

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



Mountain States Analytical

The Quality Solution

October 31, 1996

Mr. David Cox
On Site Technologies, Ltd.
612 E Murray Drive
Farmington, NM 87401

Reference:

Project: Thriftway Refinery
Project No.: 13101001
MSAI Group: 13881

Dear Mr. Cox:

Enclosed are the analytical results for your project referenced above. The following samples are included in the report.

12543-4158	12544-4158
12553-4159	12554-4159

All holding times were met for the tests performed on these samples.

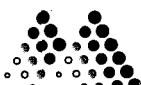
If the report is acceptable, please approve the enclosed invoice and forward it for payment.

Thank you for selecting Mountain States Analytical, Inc. to serve as your analytical laboratory on this project. If you have any questions concerning these results, please feel free to contact me at any time.

We look forward to working with you on future projects.

With Regards,

Rolf E. Larsen
Project Manager



Mountain States Analytical

The Quality Solution

On Site Technologies, Ltd.
612 E Murray Drive
Farmington, NM 87401

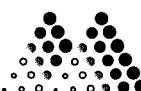
Attn: Mr. David Cox
Project: Thriftway Refinery

Sample ID: 12543-4158 STRIPPER INLET *(PC)*
Matrix: Waste Water

MSAI Sample: 54016
MSAI Group: 13881
Date Reported: 10/31/96
Discard Date: 11/30/96
Date Submitted: 10/11/96
Date Sampled: 10/10/96
Collected by: DC
Purchase Order: 4158
Project No.: 13101001

Test Analysis	Results as Received	Units	Limit of Quantitation
0259B Mercury by CVAA, w/ww, SW-846 Method: SW-846 7470	0.0006	mg/l	0.0005
0392I Flame/ICP Prep for Metals, Waters Method: SW-846 3005A	Complete		
0392M Mercury Prep CVAA, Waters Method: SW-846 7470	Complete		
7245 Arsenic by ICP Method: SW-846 6010A	ND	mg/l	0.10
7246 Barium by ICP Method: SW-846 6010A	0.11	mg/l	0.02
7249 Cadmium by ICP Method: SW-846 6010A	ND	mg/l	0.02
7251 Chromium by ICP Method: SW-846 6010A	0.37	mg/l	0.03
7255 Lead by ICP Method: SW-846 6010A	ND	mg/l	0.15
7264 Selenium by ICP Method: SW-846 6010A	ND	mg/l	0.30
7266 Silver by ICP Method: SW-846 6010A	ND	mg/l	0.02
0504 Fluoride, Ion Chromatography Method: EPA 300.0	ND	mg/l	2.5
0505 Bromide, Ion Chromatography Method: EPA 300.0	ND	mg/l	2.5

1645 West 2200 South, Salt Lake City, Utah 84119-1456 (801) 973-0050 1-800-973-MSAI FAX (801) 972-6278



Mountain States Analytical

On Site Technologies, Ltd.

The Quality Solution

Page 2

Sample ID: 12543-4158

MSAI Sample: 54016
MSAI Group: 13881

ND - Not detected at the limit of quantitation

Respectfully Submitted,
Reviewed and Approved by:

Rolf E. Larsen
Project Manager

1645 West 2200 South, Salt Lake City, Utah 84119-1456 (801) 973-0050 1-800-973-MSAI FAX (801) 972-6278



Mountain States Analytical

The Quality Solution

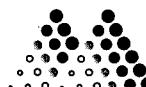
On Site Technologies, Ltd.
612 E Murray Drive
Farmington, NM 87401

Attn: Mr. David Cox
Project: Thriftway Refinery

Sample ID: 12544-4158 ~~STL UPPER EFFLUENT~~
Matrix: Waste Water

MSAI Sample: 54017
MSAI Group: 13881
Date Reported: 10/31/96
Discard Date: 11/30/96
Date Submitted: 10/11/96
Date Sampled: 10/10/96
Collected by: DC
Purchase Order: 4158
Project No.: 13101001

Test Analysis	Results as Received	Units	Limit of Quantitation
0259B Mercury by CVAA, w/ww, SW-846 Method: SW-846 7470	0.0006	mg/l	0.0005
0392I Flame/ICP Prep for Metals, Waters Method: SW-846 3005A	Complete		
0392M Mercury Prep CVAA, Waters Method: SW-846 7470	Complete		
7245 Arsenic by ICP Method: SW-846 6010A	ND	mg/l	0.10
7246 Barium by ICP Method: SW-846 6010A	0.11	mg/l	0.02
7249 Cadmium by ICP Method: SW-846 6010A	ND	mg/l	0.02
7251 Chromium by ICP Method: SW-846 6010A	0.09	mg/l	0.03
7255 Lead by ICP Method: SW-846 6010A	ND	mg/l	0.15
7264 Selenium by ICP Method: SW-846 6010A	ND	mg/l	0.30
7266 Silver by ICP Method: SW-846 6010A	ND	mg/l	0.02
0504 Fluoride, Ion Chromatography Method: EPA 300.0	ND	mg/l	2.5
0505 Bromide, Ion Chromatography Method: EPA 300.0	ND	mg/l	2.5



Mountain States Analytical

The Quality Solution

On Site Technologies, Ltd.

Page 2

Sample ID: 12544-4158

MSAI Sample: 54017
MSAI Group: 13881

ND - Not detected at the limit of quantitation

Respectfully Submitted,
Reviewed and Approved by:


Rolf E. Larsen
Project Manager

1645 West 2200 South, Salt Lake City, Utah 84119-1456 (801) 973-0050 1-800-973-MSAI FAX (801) 972-6278



Mountain States Analytical

The Quality Solution

On Site Technologies, Ltd.
612 E Murray Drive
Farmington, NM 87401

Attn: Mr. David Cox
Project: Thriftway Refinery

Sample ID: 12553-4159 STRIPPER INLET (P)
Matrix: Waste Water

MSAI Sample: 54018
MSAI Group: 13881
Date Reported: 10/31/96
Discard Date: 11/30/96
Date Submitted: 10/11/96
Date Sampled: 10/10/96
Collected by: DC
Purchase Order: 4158
Project No.: 13101001

Test	Analysis	Results as Received	Units	Limit of Quantitation	
6719	Polycyclic Aromatic Hydrocarbons Method: SW-846 8270A			-----	-----
	Acenaphthene	ND	ug/l	(1)	10
	Acenaphthylene	ND	ug/l		10
	Anthracene	ND	ug/l		10
	Benz(a)anthracene	ND	ug/l		10
	Benzo(b)fluoranthene	ND	ug/l		10
	Benzo(k)fluoranthene	ND	ug/l		10
	Benzo(ghi)perylene	ND	ug/l		10
	Benzo(a)pyrene	ND	ug/l		10
	Chrysene	ND	ug/l		10
	Dibenz(a,h)anthracene	ND	ug/l		10
	Fluoranthene	ND	ug/l		10
	Fluorene	ND	ug/l		10
	Naphthalene	90	ug/l		10
	Phenanthrene	ND	ug/l		10
	Pyrene	ND	ug/l		10
	Indeno(1,2,3-cd)pyrene	ND	ug/l		10
	2-Methylnaphthalene	34	ug/l		10
3000	SVOA Extraction, Water Method: SW-846 3510/3520	Complete			

(1) Surrogates fell outside of QC limits for this sample. Due to limited sample volume re-extraction was not possible. These values should be taken as approximate.

ND - Not detected at the limit of quantitation

Respectfully Submitted,
Reviewed and Approved by:

Rolf E. Larsen
Project Manager



Mountain States Analytical

The Quality Solution

On Site Technologies, Ltd.
612 E Murray Drive
Farmington, NM 87401

Attn: Mr. David Cox
Project: Thriftway Refinery

Sample ID: 12554-4159 STRIPPER EFFLUENT
Matrix: Waste Water

MSAI Sample: 54019
MSAI Group: 13881
Date Reported: 10/31/96
Discard Date: 11/30/96
Date Submitted: 10/11/96
Date Sampled: 10/10/96
Collected by: DC
Purchase Order: 4158
Project No.: 13101001

Test	Analysis	Results as Received	Units	Limit of Quantitation
6719	Polycyclic Aromatic Hydrocarbons Method: SW-846 8270A			
	Acenaphthene	ND	ug/l	10
	Acenaphthylene	ND	ug/l	10
	Anthracene	ND	ug/l	10
	Benz(a)anthracene	ND	ug/l	10
	Benzo(b)fluoranthene	ND	ug/l	10
	Benzo(k)fluoranthene	ND	ug/l	10
	Benzo(ghi)perylene	ND	ug/l	10
	Benzo(a)pyrene	ND	ug/l	10
	Chrysene	ND	ug/l	10
	Dibenz(a,h)anthracene	ND	ug/l	10
	Fluoranthene	ND	ug/l	10
	Fluorene	ND	ug/l	10
	Naphthalene	ND	ug/l	10
	Phenanthrene	ND	ug/l	10
	Pyrene	ND	ug/l	10
	Indeno(1,2,3-cd)pyrene	ND	ug/l	10
	2-Methylnaphthalene	ND	ug/l	10
3000	SVOA Extraction, Water Method: SW-846 3510/3520	Complete		

ND - Not detected at the limit of quantitation

Respectfully Submitted,
Reviewed and Approved by:

Rolf E. Larsen
Project Manager

Analysis Batch Number: 0259T-10/22/96-001 -1

Test Identification : 0259T-Mercury by CVAA, TCLP

Sequence : 0259T-1

Number of Samples : 12

Batch Data-Date/Time : 10/22/96 / 10:16:48

BLANK#	ANALYTE	CONC FOUND #	CONC LIMIT
PBW1-683	Mercury	0.0200	0.5000
PBW2-683-2	Mercury	0.0300	0.5000

PIKE

SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	% REC #	QC LIMITS
13987-54428	Mercury	1.0000	0.7700	1.0700	30.0(A)	80.0 120.0

HS

SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	%REC2 #	QC LIMITS
3987-54428	Mercury	1.0000	0.7700	1.0700	30.0(A)	80.0 120.0 RPD # 20.0

DUPLICATE

SAMPLE#	ANALYTE	RESULT 1	RESULT 2	RPD #	LIMIT	DILUTION
3987-54428	Mercury	0.7700	0.5200	38.8(3a)	20.0	1.00

CONTROL

SAMPLE#	ANALYTE	CONC FOUND	CONC KNOWN	% REC #	QC LIMITS
CSW-683	Mercury	2.2700	2.5000	90.8	80.0 120.0

ICV #

ICV #	ANALYTE	TRUE VALUE	BATCH READ	% REC #	QC LIMITS
ICV-	Mercury	3.0000	3.2300	107.7	80.0 120.0
CCV--2	Mercury	5.0000	4.4200	88.4	80.0 120.0
CCV--3	Mercury	5.0000	4.7900	95.8	80.0 120.0
CCV--4	Mercury	5.0000	5.3700	107.4	80.0 120.0
CCV--5	Mercury	5.0000	4.7500	95.0	80.0 120.0

CCB#

CCB#	ANALYTE	CONC FOUND #	CONC LIMIT
CCB-	Mercury	0.0300	0.5000
CCB-	Mercury	0.0500	0.5000
CCB-	Mercury	ND	0.5000
CCB-	Mercury	0.1100	0.5000
CCB-	Mercury	0.0100	0.5000

----- Result Footnotes -----

(A) - Matrix Interference inherent to the sample

3a) - Duplicate is valid because result is <5x the detection limit

Groups & Samples

13870-53979	13870-53980	13870-53981	13870-53982	13871-53983	13871-53984	13871-53985	13871-53986
13871-53987	13881-54016	13881-54017	13957-54296	13987-54428			

Analysis Batch Number: ICPWA-10/30/96-010 -2

Test Identification : ICPWA-Metals by ICP

Sequence : DATE304

Number of Samples : 22

Batch Data-Date/Time : 10/31/96 / 02:55:53

BLANK#	ANALYTE	CONC FOUND #	CONC LIMIT						
BW1-668	Arsenic	0.0044	0.0500						
	Barium	0.0005	0.2000						
	Cadmium	ND	0.0050						
	Chromium	0.0024	0.0100						
	Iron	0.0103	0.1000						
	Lead	ND	0.0500						
	Nickel	ND	0.0400						
	Selenium	0.0061	0.1000						
	Silver	ND	0.0100						
	Titanium	0.0006	0.0100						
BW2-668-2	Arsenic	ND	0.0500						
	Barium	ND	0.2000						
	Cadmium	ND	0.0050						
	Chromium	ND	0.0100						
	Iron	0.0451	0.1000						
	Lead	ND	0.0500						
	Nickel	ND	0.0400						
	Selenium	0.0014	0.1000						
	Silver	ND	0.0100						
	Titanium	0.0007	0.0100						
SPIKE			QC LIMITS						
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	CONC SPIKE	% REC #	LOWER	UPPER		
3852-53917	Arsenic	2.0000	0.0008	2.0871	104.3	80.0	120.0		
	Barium	2.0000	0.0291	2.0424	100.7	80.0	120.0		
	Cadmium	0.0500	0.0000	0.0534	106.8	80.0	120.0		
	Chromium	0.2000	0.0038	0.2090	102.6	80.0	120.0		
	Iron	1.0000	1.0581	1.7334	67.5(B)	80.0	120.0		
	Lead	0.5000	-0.0088	0.5029	102.3	80.0	120.0		
	Nickel	0.5000	0.0030	0.5172	102.8	80.0	120.0		
	Selenium	2.0000	0.4224	2.4375	100.8	80.0	120.0		
	Silver	0.0500	-0.0028	0.0519	109.4	80.0	120.0		
	Titanium	0.1000	0.0224	0.1246	102.2	75.0	125.0		
SD					QC LIMITS				
SAMPLE#	ANALYTE	CONC ADDED	CONC SAMPLE	RESULT 2	%REC2 #	LOWER	UPPER	RPD #	LIMIT
3852-53917	Arsenic	2.0000	0.0008	2.0805	104.0	80.0	120.0	0.3	20.0
	Barium	2.0000	0.0291	2.0211	99.6	80.0	120.0	1.1	20.0
	Cadmium	0.0500	0.0000	0.0524	104.8	80.0	120.0	1.9	20.0
	Chromium	0.2000	0.0038	0.2093	102.8	80.0	120.0	0.2	20.0
	Iron	1.0000	1.0581	1.7642	70.6(B)	80.0	120.0	4.5	20.0
	Lead	0.5000	-0.0088	0.4946	100.7	80.0	120.0	1.6	20.0
	Nickel	0.5000	0.0030	0.5129	102.0	80.0	120.0	0.8	20.0
	Selenium	2.0000	0.4224	2.4446	101.1	80.0	120.0	0.3	20.0
	Silver	0.0500	-0.0028	0.0518	109.2	80.0	120.0	0.2	20.0
	Titanium	0.1000	0.0224	0.1221	99.7	75.0	125.0	2.5	20.0

Analysis Batch Number: ICPWA-10/30/96-010 -2

Test Identification : ICPWA-Metals by ICP

Sequence : DATE304

Number of Samples : 22

Batch Data-Date/Time : 10/31/96 / 02:55:53

DUPLICATE

<u>AMPLE#</u>	<u>ANALYTE</u>	<u>RESULT 1</u>	<u>RESULT 2</u>	<u>RPD #</u>	<u>LIMIT</u>	<u>DILUTION</u>
13852-53917	Arsenic	0.0008	0.0000	200.0(11)	20.0	1.00
	Barium	0.0291	0.0299	2.7	20.0	1.00
	Cadmium	0.0000	0.0000	0.0	20.0	1.00
	Chromium	0.0038	0.0060	44.9(11)	20.0	1.00
	Iron	1.0581	0.7997	27.8(B)	20.0	1.00
	Lead	-0.0088	0.0060	1057.1(11)	20.0	1.00
	Nickel	0.0030	0.0004	152.9(11)	20.0	1.00
	Selenium	0.4224	0.4050	4.2	20.0	1.00
	Silver	-0.0028	0.0000	200.0(11)	20.0	1.00
	Titanium	0.0224	0.0272	19.4	20.0	1.00

CONTROL

<u>AMPLE#</u>	<u>ANALYTE</u>	<u>QC LIMITS</u>			
		<u>CONC FOUND</u>	<u>CONC KNOWN</u>	<u>% REC #</u>	<u>LOWER</u> <u>UPPER</u>
LCSW-668	Arsenic	2.0501	2.0000	102.5	80.0 120.0
	Barium	1.9998	2.0000	100.0	80.0 120.0
	Cadmium	0.0532	0.0500	106.4	80.0 120.0
	Chromium	0.2110	0.2000	105.5	80.0 120.0
	Iron	1.1331	1.0000	113.3	80.0 120.0
	Lead	0.5357	0.5000	107.1	80.0 120.0
	Nickel	0.5257	0.5000	105.1	80.0 120.0
	Selenium	1.9882	2.0000	99.4	80.0 120.0
	Silver	0.0544	0.0500	108.8	80.0 120.0
	Titanium	0.1052	0.1000	105.2	80.0 120.0

<u>CV #</u>	<u>ANALYTE</u>	<u>QC LIMITS</u>			
		<u>TRUE VALUE</u>	<u>BATCH READ</u>	<u>% REC #</u>	<u>LOWER</u> <u>UPPER</u>
CV-	Arsenic	1.6000	1.6153	101.0	90.0 110.0
	Barium	4.0000	3.8606	96.5	90.0 110.0
	Cadmium	4.0000	3.9679	99.2	90.0 110.0
	Chromium	4.0000	3.9917	99.8	90.0 110.0
	Iron	4.0000	3.9623	99.1	90.0 110.0
	Lead	20.0000	19.5094	97.5	90.0 110.0
	Nickel	8.0000	7.8985	98.7	90.0 110.0
	Selenium	1.6000	1.5664	97.9	90.0 110.0
	Silver	0.8000	0.8130	101.6	90.0 110.0
	Titanium	1.6000	1.6095	100.6	90.0 110.0
CV1--2	Arsenic	1.6000	1.6176	101.1	90.0 110.0
	Barium	4.0000	3.8966	97.4	90.0 110.0
	Cadmium	4.0000	4.0266	100.7	90.0 110.0
	Chromium	4.0000	4.0382	101.0	90.0 110.0
	Iron	4.0000	4.0606	101.5	90.0 110.0
	Lead	20.0000	19.7273	98.6	90.0 110.0
	Nickel	8.0000	7.9584	99.5	90.0 110.0
	Selenium	1.6000	1.6441	102.8	90.0 110.0
	Silver	0.8000	0.8168	102.1	90.0 110.0
	Titanium	1.6000	1.6239	101.5	90.0 110.0
CV2--3	Arsenic	1.6000	1.6295	101.8	90.0 110.0
	Barium	4.0000	3.8952	97.4	90.0 110.0
	Cadmium	4.0000	4.0340	100.9	90.0 110.0

Analysis Batch Number: ICPWA-10/30/96-010 -2

Test Identification : ICPWA-Metals by ICP

Sequence : DATE304

Number of Samples : 22

Batch Data-Date/Time : 10/31/96 / 02:55:53

QC LIMITS					
CCV #	ANALYTE	TRUE VALUE	BATCH READ	% REC #	LOWER UPPER
CCV2--3	Chromium	4.0000	4.0450	101.1	90.0 110.0
	Iron	4.0000	4.0070	100.2	90.0 110.0
	Lead	20.0000	19.7185	98.6	90.0 110.0
	Nickel	8.0000	8.0070	100.1	90.0 110.0
	Selenium	1.6000	1.5778	98.6	90.0 110.0
	Silver	0.8000	0.8181	102.3	90.0 110.0
	Titanium	1.6000	1.6273	101.7	90.0 110.0
	Arsenic	1.6000	1.6351	102.2	90.0 110.0
	Barium	4.0000	3.8113	95.3	90.0 110.0
	Cadmium	4.0000	4.0388	101.0	90.0 110.0
CCV3--4	Chromium	4.0000	4.0290	100.7	90.0 110.0
	Iron	4.0000	4.0111	100.3	90.0 110.0
	Lead	20.0000	19.6934	98.5	90.0 110.0
	Nickel	8.0000	8.0532	100.7	90.0 110.0
	Selenium	1.6000	1.5773	98.6	90.0 110.0
	Silver	0.8000	0.8083	101.0	90.0 110.0
	Titanium	1.6000	5.8622	366.4(L)	90.0 110.0
	Arsenic	1.6000	1.6216	101.3	90.0 110.0
	Barium	4.0000	3.9140	97.9	90.0 110.0
	Cadmium	4.0000	3.9792	99.5	90.0 110.0
CCV4--5	Chromium	4.0000	4.0003	100.0	90.0 110.0
	Iron	4.0000	3.7547	93.9	90.0 110.0
	Lead	20.0000	19.4689	97.3	90.0 110.0
	Nickel	8.0000	7.8649	98.3	90.0 110.0
	Selenium	1.6000	1.5955	99.7	90.0 110.0
	Silver	0.8000	0.8235	102.9	90.0 110.0
	Titanium	1.6000	1.7353	108.5	90.0 110.0
	Arsenic	1.6000	1.6222	101.4	90.0 110.0
	Barium	4.0000	3.8500	96.3	90.0 110.0
	Cadmium	4.0000	3.9949	99.9	90.0 110.0
CCV5--6	Chromium	4.0000	3.9939	99.8	90.0 110.0
	Iron	4.0000	3.8978	97.4	90.0 110.0
	Lead	20.0000	19.4080	97.0	90.0 110.0
	Nickel	8.0000	7.8776	98.5	90.0 110.0
	Selenium	1.6000	1.6622	103.9	90.0 110.0
	Silver	0.8000	0.8145	101.8	90.0 110.0
	Titanium	1.6000	1.7347	108.4	90.0 110.0
	Arsenic	ND		0.0500	
	Barium	ND		0.2000	
	Cadmium	ND		0.0050	
CCB#	Chromium	ND		0.0100	
	Iron	ND		0.1000	
	Lead	0.0114		0.0500	
	Nickel	ND		0.0400	
	Selenium	0.0083		0.1000	
	Silver	ND		0.0100	
	Titanium	ND		0.0100	

Analysis Batch Number: ICPWA-10/30/96-010 -2

Test Identification : ICPWA-Metals by ICP

Sequence : DATE304

Number of Samples : 22

Batch Data-Date/Time : 10/31/96 / 02:55:53

CB#	ANALYTE	CONC FOUND #	CONC LIMIT
CB1-	Arsenic	ND	0.0500
	Barium	ND	0.2000
	Cadmium	ND	0.0050
	Chromium	ND	0.0100
	Iron	ND	0.1000
	Lead	ND	0.0500
	Nickel	ND	0.0400
	Selenium	0.0130	0.1000
	Silver	ND	0.0100
	Titanium	ND	0.0100
CB2-	Arsenic	ND	0.0500
	Barium	0.0003	0.2000
	Cadmium	0.0007	0.0050
	Chromium	ND	0.0100
	Iron	ND	0.1000
	Lead	0.0041	0.0500
	Nickel	ND	0.0400
	Selenium	0.0143	0.1000
	Silver	ND	0.0100
	Titanium	0.0004	0.0100
CB3-	Arsenic	0.0045	0.0500
	Barium	0.0005	0.2000
	Cadmium	0.0011	0.0050
	Chromium	0.0015	0.0100
	Iron	0.0207	0.1000
	Lead	0.0130	0.0500
	Nickel	ND	0.0400
	Selenium	0.0196	0.1000
	Silver	0.0021	0.0100
	Titanium	0.2750(L)	0.0100
CB4-	Arsenic	0.0073	0.0500
	Barium	ND	0.2000
	Cadmium	ND	0.0050
	Chromium	ND	0.0100
	Iron	ND	0.1000
	Lead	ND	0.0500
	Nickel	ND	0.0400
	Selenium	0.0061	0.1000
	Silver	0.0001	0.0100
	Titanium	ND	0.0100
CB5-	Arsenic	ND	0.0500
	Barium	ND	0.2000
	Cadmium	0.0009	0.0050
	Chromium	ND	0.0100
	Iron	0.0421	0.1000
	Lead	ND	0.0500
	Nickel	ND	0.0400
	Selenium	ND	0.1000
	Silver	ND	0.0100
	Titanium	ND	0.0100

Analysis Batch Number: ICPWA-10/30/96-010 -2

Test Identification : ICPWA-Metals by ICP

Sequence : DATE304

Number of Samples : 22

Batch Data-Date/Time : 10/31/96 / 02:55:53

----- Result Footnotes -----

(3) - Incomplete Homogenization

(11) - Both Duplicate results are less than the LOQ.

(1) - All samples associated with this QC sample were reanalyzed.

Groups & Samples

13852-53917	13852-53918	13852-53919	13852-53920	13852-53921	13859-53943	13859-53944	13863-53955
13863-53956	13863-53957	13863-53959	13881-54016	13881-54017	13884-54024	13884-54025	

1B
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: MOUNTAIN STATES

Contract:

WBLK

Lab Code: MSAI

Case No.:

SAS No.:

SDG No.: OST

Matrix: (soil/water) WATER

Lab Sample ID: 961011WB

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: Z7610

Level: (low/med) LOW

Date Received: _____

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: _____

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 10/14/96

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: 7.0

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
---------	----------	----------------------------------------------	---

91-20-3-----	Naphthalene	10	U
91-57-6-----	2-Methylnaphthalene	10	U
208-96-8-----	Acenaphthylene	10	U
83-32-9-----	Acenaphthene	10	U
86-73-7-----	Fluorene	10	U
85-01-8-----	Phenanthrene	10	U
120-12-7-----	Anthracene	10	U
206-44-0-----	Fluoranthene	10	U
129-00-0-----	Pyrene	10	U
56-55-3-----	Benzo(a)anthracene	10	U
218-01-9-----	Chrysene	10	U
205-99-2-----	Benzo(b)fluoranthene	10	U
207-08-9-----	Benzo(k)fluoranthene	10	U
50-32-8-----	Benzo(a)pyrene	10	U
193-39-5-----	Indeno(1,2,3-cd)pyrene	10	U
53-70-3-----	Dibenz(a,h)anthracene	10	U
191-24-2-----	Benzo(g,h,i)perylene	10	U

2C
WATER SEMIVOLATILE SURROGATE RECOVERY

Lab Name: MOUNTAIN STATES

Contract:

Lab Code: MSAI

Case No.:

SAS No.:

SDG No.: OST

	EPA SAMPLE NO.	S1 (2FP) #	S2 (PHL) #	S3 (NBZ) #	S4 (FBP) #	S5 (TBP) #	S6 (TPH) #	S7 #	S8 #	TOT OUT
01	WBLK	48	32	83	72	101	99			0
02	WBLKLC	53	36	96	85	61	92			0
03	WBLKLCSD	56	38	99	87	102	98			0
04	12553	27	31	78	79	56	86			0
05	12554	3*	11	70	71	5*	86			2
06										
07										
08										
09										
10										
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28										
29										
30										

QC LIMITS

S1 (2FP) = 2-Fluorophenol	(21-100)
S2 (PHL) = Phenol-d6	(10- 94)
S3 (NBZ) = Nitrobenzene-d5	(35-114)
S4 (FBP) = 2-Fluorobiphenyl	(43-116)
S5 (TBP) = 2,4,6-Tribromophenol	(10-123)
S6 (TPH) = Terphenyl-d14	(33-141)

Column to be used to flag recovery values

* Values outside of contract required QC limits

D Surrogate diluted out

+ note: Due to limited sample volume, re-extraction could not be done.

FORM 3
WATER SEMIVOLATILE LAB CONTROL SAMPLE

Lab Name: MOUNTAIN STATES

Contract:

Lab Code: MSAI

Case No.:

SAS No.:

SDG No.: OST

Matrix Spike - Sample No.: WBLK

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC #	QC. LIMITS REC.
Phenol	100	0.0	32	32	5-112
2-Chlorophenol	100	0.0	67	67	23-134
1,4-Dichlorobenzene	100	0.0	46	46	20-124
N-Nitrosodi-n-propylami	100	0.0	89	89	1-230
1,2,4-Trichlorobenzene	100	0.0	55	55	44-142
4-Chloro-3-methylphenol	100	0.0	84	84	22-147
Acenaphthene	100	0.0	81	81	47-145
4-Nitrophenol	100	0.0	24	24	1-132
2,4-Dinitrotoluene	100	0.0	96	96	39-139
Pentachlorophenol	100	0.0	45	45	14-176
Pyrene	100	0.0	94	94	52-115

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC #	% RPD #	QC LIMITS RPD	REC.
Phenol	100	33	33	3	42	5-112
2-Chlorophenol	100	71	71	6	40	23-134
1,4-Dichlorobenzene	100	46	46	0	28	20-124
N-Nitrosodi-n-propylami	100	93	93	4	38	1-230
1,2,4-Trichlorobenzene	100	54	54	2	28	44-142
4-Chloro-3-methylphenol	100	86	86	2	42	22-147
Acenaphthene	100	83	83	2	31	47-145
4-Nitrophenol	100	29	29	19	50	1-132
2,4-Dinitrotoluene	100	97	97	1	38	39-139
Pentachlorophenol	100	72	72	46	50	14-176
Pyrene	100	100	100	6	31	52-115

Column to be used to flag recovery and RPD values with an asterisk
 * Values outside of QC limits

RPD: 0 out of 11 outside limits

Spike Recovery: 0 out of 22 outside limits

COMMENTS: _____

3A
LFB RECOVERY

Lab Name: MOUNTAIN STATES ANALYTICAL Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - MSAI Sample No.: _____ Date Analyzed: 10/15/96

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC #	QC. LIMITS REC.
FLUORIDE	100.00	0.00	104.34	104	90 110
CHLORIDE	200.00	0.00	196.26	98	90 110
NITRATE	90.80	0.00	90.56	100	90 110
BROMIDE	400.00	0.00	418.59	105	90 110
SULFATE	400.00	0.00	405.10	101	90 110

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of in-house QC limits

Spike Recovery: 0 out of 5 outside of in-house QC limits

Comments: _____

3A
WATER ANION SPIKE/MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: MOUNTAIN STATES ANALYTICAL Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Matrix Spike - MSAI Sample No.: 54195 Date Analyzed: 10/15/96

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (mg/L)	MS CONCENTRATION (mg/L)	MS % REC #	QC. LIMITS REC.
FLUORIDE	50.00	7.62	59.40	104	80 120
CHLORIDE	100.00	132.48	221.65	89	80 120
BROMIDE	200.00	0.00	206.04	103	80 120
NITRATE	45.40	0.00	45.35	100	80 120
SULFATE	200.00	145.04	348.59	102	80 120

COMPOUND	SPIKE ADDED (mg/L)	MSD CONCENTRATION (mg/L)	MSD % REC #	% RPD #	QC RPD	LIMITS REC.
FLUORIDE	50.00	58.69	102	1.2	20.0	80 120
CHLORIDE	100.00	216.40	84	2.4	20.0	80 120
BROMIDE	200.00	204.36	102	0.8	20.0	80 120
NITRATE	45.40	44.76	99	1.3	20.0	80 120
SULFATE	200.00	341.83	98	2.0	20.0	80 120

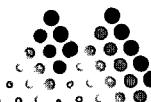
Column to be used to flag recovery and RPD values with an asterisk

* Values outside of in-house QC limits

RPD: 0 out of 5 outside of in-house QC limits

Spike Recovery: 0 out of 10 outside of in-house QC limits

Comments: _____



Mountain States Analytical

Project Quality Report

October 31, 1996

Mr. David Cox
On Site Technologies, Ltd.
612 E Murray Drive
Farmington, NM 87401

Reference:

Project: Templeton 1E, Florence 124 (Relog)
Project No.: PNM1002
MSAI Group: 14122

Dear Mr. Cox:

Enclosed are the analytical results for your project referenced above. The following sample is included in the report.

Florence 124 MW 2(52999)

All holding times were met for the tests performed on these samples except:

Sample - (Sample Date) Test Description	Expiration Date Date Analyzed	Days Past Holding Time
Florance 124 MW 2 (52999) - (09/05/96)	10/03/96 10/31/96	28
Mercury by CVAA, w/ww, SW-846	10/03/96 10/29/96	26
Mercury Prep CVAA, Waters		

If the report is acceptable, please approve the enclosed invoice and forward it for payment.

Thank you for selecting Mountain States Analytical, Inc. to serve as your analytical laboratory on this project. If you have any questions concerning these results, please feel free to contact me at any time.

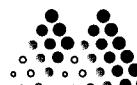
We look forward to working with you on future projects.

With Regards,

Rolf E. Larsen

Project Manager

1105 West 200 South, Salt Lake City, Utah 84139-2800 (800) 434-3434



Mountain States Analytical

The Quality Solution

On Site Technologies, Ltd.
612 E Murray Drive
Farmington, NM 87401

Attn: Mr. David Cox
Project: Templeton 1E, Florence 124 (Relog)

Sample ID: Florence 124 MW 2 (52999)
Matrix: Waste Water

MSAI Sample: 54931
MSAI Group: 14122
Date Reported: 10/31/96
Discard Date: 11/30/96
Date Submitted: 10/18/96
Date Sampled: 09/05/96
Collected by:
Purchase Order: 5251/52
Project No.: PNM1002

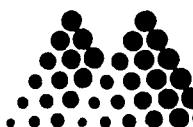
Test Analysis	Results as Received	Units	Limit of Quantitation
0259B Mercury by CVAA, w/ww, SW-846 Method: SW-846 7470	ND	mg/l	0.0005
0392M Mercury Prep CVAA, Waters Method: SW-846 7470	Complete		
7245 Arsenic by ICP Method: SW-846 6010A	ND	mg/l	0.10
7249 Cadmium by ICP Method: SW-846 6010A	ND	mg/l	0.02
7251 Chromium by ICP Method: SW-846 6010A	ND	mg/l	0.03
7264 Selenium by ICP Method: SW-846 6010A	ND	mg/l	0.30
7266 Silver by ICP Method: SW-846 6010A	ND	mg/l	0.02

ND - Not detected at the limit of quantitation

Respectfully Submitted,
Reviewed and Approved by:

Rolf E. Larsen
Project Manager

Facsimile Communication



Mountain States Analytical

The Quality Solution

CONFIDENTIAL MATERIAL

If received in error, please notify sender at once.

To: _____

David Cox

Company: _____

On-Site

Fax No.: _____

(505) 325-6257

Date: _____

Oct. 31, 96

From: _____

RE Person

Number of pages 11 (Including this cover sheet)

Comments: QC for 14122

SAC
This was
Screwed
up really
badly
by
Melvin

If you do not receive all of the pages or have problems with transmission,
please call (801) 973-0050 as soon as possible.

Analysis Batch Number: 0259T-10/31/96-107 -1
Test Identification : 0259T-Mercury by CVAA, TCLP
Number of Samples : 6
Batch Data-Date/Time : 10/31/96 / 15:48:05

Sequence : 0259T-1

<u>ANK#</u>	<u>ANALYTE</u>	<u>CONC FOUND #</u>	<u>CONC LIMIT</u>
BW1-708	Mercury	0.3700	0.5000
PBW2-708-2	Mercury	0.3100	0.5000
PIKE			
SAMPLE# ANALYTE			
13984-54418	Mercury	1.0000	2.1000 2.1900 % REC #
MSD			
SAMPLE# ANALYTE			
13984-54419	Mercury	1.0000	2.1000 RESULT 2 %REC2 # LOWER UPPER RPD # LIMIT
DUPLICATE			
SAMPLE# ANALYTE			
13984-54417	Mercury	2.1000	2.1500 RPD # LIMIT DILUTION
CONTROL			
SAMPLE# ANALYTE			
ECSW-708	Mercury	2.2400	2.5000 % REC # LOWER UPPER
QC LIMITS			
CV #	ANALYTE	TRUE VALUE	BATCH READ % REC # LOWER UPPER
ICV-	Mercury	3.0000	3.2700 109.0 80.0 120.0
CCV--2	Mercury	5.0000	5.0000 100.0 80.0 120.0
CCV--3	Mercury	5.0000	5.0600 101.2 80.0 120.0
ICV--4	Mercury	3.0000	2.9400 98.0 80.0 120.0
CCV--5	Mercury	5.0000	4.9200 98.4 80.0 120.0
CCV--6	Mercury	5.0000	5.1800 103.6 80.0 120.0
CCV--7	Mercury	5.0000	5.1100 102.2 80.0 120.0
CCV--8	Mercury	5.0000	5.1800 103.6 80.0 120.0
ICB#	ANALYTE	CONC FOUND #	CONC LIMIT
ICB-	Mercury	0.1800	0.5000
CCB-	Mercury	0.0600	0.5000
CCB-	Mercury	0.0700	0.5000
CCB-	Mercury	0.0200	0.5000
CCB-	Mercury	0.0800	0.5000
CB-	Mercury	0.0500	0.5000
CB-	Mercury	ND	0.5000
CCB-	Mercury	-0.0100	0.5000

----- Result Footnotes -----

(A) - Matrix Interference inherent to the sample

----- Batch Notes -----

Post digestion spike confirms matrix interferences.

Mountain States Analytical, Inc.
Daily QC Batching Data
Data Released for Reporting

10/31/96
16:26:44
Group: 14122

Analysis Batch Number: 0259T-10/31/96-107 -1

Test Identification : 0259T-Mercury by CVAA, TCLP

Sequence : 0259T-1

Number of Samples : 6

Batch Data-Date/Time : 10/31/96 / 15:48:05

Groups & Samples

13984-54417 13984-54418 13984-54419 14030-54633 14037-54676 14038-54678 14039-54679 14040-54682
14122-54931

Analysis Batch Number: ICPWA-09/24/96-010 -2

Test Identification : ICPWA-Metals by ICP

Sequence : DATC268

Number of Samples : 14

Batch Data-Date/Time : 09/24/96 / 17:17:06

RANK#	ANALYTE	CONC FOUND #	CONC LIMIT
BW-625	Aluminum	0.0202	0.2000
	Antimony	ND	0.1000
	Arsenic	0.0007	0.0500
	Barium	0.0008	0.2000
	Beryllium	ND	0.0050
	Cadmium	0.0032	0.0050
	Calcium	0.0530	1.0000
	Chromium	0.0022	0.0100
	Copper	0.0013	0.0250
	Iron	0.0726	0.1000
	Lead	ND	0.0500
	Magnesium	0.0077	1.0000
	Manganese	0.0086	0.0150
	Nickel	0.0132	0.0400
	Potassium	ND	1.0000
	Selenium	0.0096	0.1000
	Silver	0.0008	0.0100
	Sodium	0.0800	1.0000
	Thallium	0.0100	0.1500
	Vanadium	ND	0.0500
	Zinc	0.0014	0.0600
	Molybdenum	ND	0.0500

PIKE SAMPLE#	ANALYTE	QC LIMITS					
		CONC ADDED	CONC SAMPLE	CONC SPIKE	% REC #	LOWER	UPPER
13489-52767	Aluminum	1.0000	0.1290	1.1953	106.6	80.0	120.0
	Antimony	1.0000	0.0035	0.9745	97.1	80.0	120.0
	Arsenic	1.0000	0.0009	0.9778	97.7	80.0	120.0
	Barium	0.2000	0.0885	0.2864	98.9	80.0	120.0
	Beryllium	0.1000	0.0000	0.1018	101.8	80.0	120.0
	Cadmium	0.2000	0.0011	0.1949	96.9	80.0	120.0
	Calcium	2.0000	45.3217	53.4600	406.9(2a)	80.0	120.0
	Chromium	0.2000	0.0098	0.1973	93.8	80.0	120.0
	Copper	0.2000	-0.0012	0.1916	96.4	80.0	120.0
	Iron	0.7000	0.1438	0.8537	101.4	80.0	120.0
	Lead	1.0000	-0.0168	0.9399	95.7	80.0	120.0
	Magnesium	1.0000	54.7313	62.3512	762.0(2a)	80.0	120.0
	Manganese	0.2000	0.0099	0.2003	95.2	80.0	120.0
	Nickel	0.4000	0.0113	0.3882	94.2	80.0	120.0
	Potassium	2.0000	5.8840	8.1982	115.7	80.0	120.0
	Selenium	1.0000	0.0052	0.9364	93.1	80.0	120.0
	Silver	0.1000	-0.0020	0.0980	100.0	80.0	120.0
	Sodium	3.0000	172.5171	188.6594	538.1(2a)	80.0	120.0
	Thallium	2.0000	0.0154	1.8851	93.5	80.0	120.0
	Vanadium	0.5000	0.0065	0.4979	98.3	80.0	120.0
	Zinc	0.2000	0.0076	0.1955	94.0	80.0	120.0
	Molybdenum	1.0000	-0.0039	0.9628	96.7	80.0	120.0

Analysis Batch Number: ICPWA-09/24/96-010 -2

Test Identification : ICPWA-Metals by ICP

Number of Samples : 14

Batch Data-Date/Time : 09/24/96 / 17:17:06

Sequence : DATC268

SD SAMPLE#	ANALYTE	QC LIMITS							
		CONC ADDED	CONC SAMPLE	RESULT 2	%REC2 #	LOWER	UPPER	RPD #	LIMIT
13489-52767	Aluminum	1.0000	0.1290	1.1524	102.3	80.0	120.0	4.1	20.0
	Antimony	1.0000	0.0035	0.9082	90.5	80.0	120.0	7.0	20.0
	Arsenic	1.0000	0.0009	0.9442	94.3	80.0	120.0	3.5	20.0
	Barium	0.2000	0.0885	0.2743	92.9	80.0	120.0	6.3	20.0
	Beryllium	0.1000	0.0000	0.1012	101.2	80.0	120.0	0.6	20.0
	Cadmium	0.2000	0.0011	0.1916	95.3	80.0	120.0	1.7	20.0
	Calcium	2.0000	45.3217	45.7920	23.5(2a)	80.0	120.0	178.2(1a)	20.0
	Chromium	0.2000	0.0098	0.1896	89.9	80.0	120.0	4.2	20.0
	Copper	0.2000	-0.0012	0.1943	97.8	80.0	120.0	1.4	20.0
	Iron	0.7000	0.1438	0.8220	96.9	80.0	120.0	4.5	20.0
	Lead	1.0000	-0.0168	0.9190	93.6	80.0	120.0	2.2	20.0
	Magnesium	1.0000	54.7313	54.1200	-61.1(2a)	80.0	120.0	234.9(1a)	20.0
	Manganese	0.2000	0.0099	0.1994	94.8	80.0	120.0	0.4	20.0
	Nickel	0.4000	0.0113	0.3790	91.9	80.0	120.0	2.5	20.0
	Potassium	2.0000	5.8840	7.6316	87.4	80.0	120.0	27.9(4a)	20.0
	Selenium	1.0000	0.0052	0.9702	96.5	80.0	120.0	3.6	20.0
	Silver	0.1000	-0.0020	0.0943	96.3	80.0	120.0	3.8	20.0
	Sodium	3.0000	172.5171	171.0307	-49.5(2a)	80.0	120.0	240.5(1a)	20.0
	Thallium	2.0000	0.0154	1.7872	88.6	80.0	120.0	5.4	20.0
	Vanadium	0.5000	0.0065	0.4894	96.6	80.0	120.0	1.7	20.0
	Zinc	0.2000	0.0076	0.2012	96.8	80.0	120.0	2.9	20.0
	Molybdenum	1.0000	-0.0039	0.9489	95.3	80.0	120.0	1.5	20.0

DUPLICATE

SAMPLE#	ANALYTE	RESULT 1	RESULT 2	RPD #	LIMIT	DILUTION
13489-52767	Aluminum	0.1290	0.1921	39.3(11)	20.0	1.00
	Antimony	0.0035	0.0344	163.1(11)	20.0	1.00
	Arsenic	0.0009	0.0250	186.1(11)	20.0	1.00
	Barium	0.0885	0.0905	2.2	20.0	1.00
	Beryllium	0.0000	0.0000	0.0	20.0	1.00
	Cadmium	0.0011	0.0015	30.8(11)	20.0	1.00
	Calcium	45.3217	45.9977	1.5	20.0	1.00
	Chromium	0.0098	0.0982	163.7(B)	20.0	1.00
	Copper	-0.0012	0.0008	1000.0(11)	20.0	1.00
	Iron	0.1438	0.6366	126.3(B)	20.0	1.00
	Lead	-0.0168	0.0000	200.0(11)	20.0	1.00
	Magnesium	54.7313	55.7875	1.9	20.0	1.00
	Manganese	0.0099	0.0111	11.4	20.0	1.00
	Nickel	0.0113	0.0681	143.1(3a)	20.0	1.00
	Potassium	5.8840	5.9577	1.2	20.0	1.00
	Selenium	0.0052	0.0398	153.8(11)	20.0	1.00
	Silver	-0.0020	0.0000	200.0(11)	20.0	1.00
	Sodium	172.5171	177.2939	2.7	20.0	1.00
	Thallium	0.0154	0.0322	70.6(11)	20.0	1.00
	Vanadium	0.0065	0.0063	3.1	20.0	1.00
	Zinc	0.0076	0.0085	11.2	20.0	1.00
	Molybdenum	-0.0039	0.0026	1000.0(11)	20.0	1.00

Analysis Batch Number: ICPWA-09/24/96-010 -2

Test Identification : ICPWA-Metals by ICP

Sequence : DATC268

Number of Samples : 14

Batch Data-Date/Time : 09/24/96 / 17:17:06

CONTROL

<u>SAMPLE#</u>	<u>ANALYTE</u>	<u>CONC FOUND</u>	<u>CONC KNOWN</u>	<u>% REC #</u>	<u>QC LIMITS</u>	
LCSW-625	Aluminum	0.9580	1.0000	95.8	80.0	120.0
	Antimony	0.9122	1.0000	91.2	80.0	120.0
	Arsenic	0.9717	1.0000	97.2	80.0	120.0
	Barium	0.1908	0.2000	95.4	80.0	120.0
	Beryllium	0.1019	0.1000	101.9	80.0	120.0
	Cadmium	0.1991	0.2000	99.6	80.0	120.0
	Calcium	2.0755	2.0000	103.8	80.0	120.0
	Chromium	0.2021	0.2000	101.1	80.0	120.0
	Copper	0.1929	0.2000	96.4	80.0	120.0
	Iron	0.7125	0.7000	101.8	80.0	120.0
	Lead	0.9701	1.0000	97.0	80.0	120.0
	Magnesium	0.9881	1.0000	98.8	80.0	120.0
	Manganese	0.2090	0.2000	104.5	80.0	120.0
	Nickel	0.4041	0.4000	101.0	80.0	120.0
	Potassium	1.9478	2.0000	97.4	80.0	120.0
	Selenium	1.0066	1.0000	100.7	80.0	120.0
	Silver	0.0999	0.1000	99.9	80.0	120.0
	Sodium	2.9307	3.0000	97.7	80.0	120.0
	Thallium	2.0302	2.0000	101.5	80.0	120.0
	Vanadium	0.4970	0.5000	99.4	80.0	120.0
	Zinc	0.2020	0.2000	101.0	80.0	120.0
	Molybdenum	0.9845	1.0000	98.5	80.0	120.0

QC LIMITS

<u>CCV #</u>	<u>ANALYTE</u>	<u>TRUE VALUE</u>	<u>BATCH READ</u>	<u>% REC #</u>	<u>LOWER</u>	<u>UPPER</u>
CCV-	Aluminum	20.0000	19.6839	98.4	90.0	110.0
	Antimony	4.0000	4.0653	101.6	90.0	110.0
	Arsenic	1.6000	1.6020	100.1	90.0	110.0
	Barium	4.0000	3.8350	95.9	90.0	110.0
	Beryllium	0.4000	0.3975	99.4	90.0	110.0
	Cadmium	4.0000	3.9220	98.1	90.0	110.0
	Calcium	40.0000	40.0239	100.1	90.0	110.0
	Chromium	4.0000	3.9406	98.5	90.0	110.0
	Copper	4.0000	3.8607	96.5	90.0	110.0
	Iron	4.0000	3.8929	97.3	90.0	110.0
	Lead	20.0000	19.1943	96.0	90.0	110.0
	Magnesium	20.0000	19.7946	99.0	90.0	110.0
	Manganese	4.0000	3.8447	96.1	90.0	110.0
	Nickel	8.0000	7.7917	97.4	90.0	110.0
	Potassium	40.0000	40.3892	101.0	90.0	110.0
	Selenium	1.6000	1.5879	99.2	90.0	110.0
	Silver	0.4000	0.4238	106.0	90.0	110.0
	Sodium	40.0000	40.3638	100.9	90.0	110.0
	Thallium	4.0000	3.7819	94.5	90.0	110.0
	Vanadium	1.6000	1.5947	99.7	90.0	110.0
	Zinc	4.0000	3.8934	97.3	90.0	110.0
CCV1--2	Molybdenum	20.0000	20.0832	100.4	90.0	110.0
	Aluminum	20.0000	19.5707	97.9	90.0	110.0
	Antimony	4.0000	4.0739	101.8	90.0	110.0

Analysis Batch Number: ICPWA-09/24/96-010 -2

Test Identification : ICPWA-Metals by ICP

Number of Samples : 14

Batch Data-Date/Time : 09/24/96 / 17:17:06

Sequence : DATC268

CV #	ANALYTE	QC LIMITS			
		TRUE VALUE	BATCH READ	% REC #	LOWER UPPER
CCV1--2	Arsenic	1.6000	1.6073	100.5	90.0 110.0
	Barium	4.0000	3.7946	94.9	90.0 110.0
	Beryllium	0.4000	0.3969	99.2	90.0 110.0
	Cadmium	4.0000	3.9350	98.4	90.0 110.0
	Calcium	40.0000	40.2729	100.7	90.0 110.0
	Chromium	4.0000	3.9480	98.7	90.0 110.0
	Copper	4.0000	3.8362	95.9	90.0 110.0
	Iron	4.0000	3.9315	98.3	90.0 110.0
	Lead	20.0000	19.3166	96.6	90.0 110.0
	Magnesium	20.0000	19.7681	98.8	90.0 110.0
	Manganese	4.0000	3.8522	96.3	90.0 110.0
	Nickel	8.0000	7.8338	97.9	90.0 110.0
	Potassium	40.0000	40.0508	100.1	90.0 110.0
	Selenium	1.6000	1.5851	99.1	90.0 110.0
	Silver	0.4000	0.4246	106.2	90.0 110.0
	Sodium	40.0000	39.4719	98.7	90.0 110.0
	Thallium	4.0000	3.7357	93.4	90.0 110.0
	Vanadium	1.6000	1.5956	99.7	90.0 110.0
	Zinc	4.0000	3.8997	97.5	90.0 110.0
	Molybdenum	20.0000	20.1201	100.6	90.0 110.0
CCV2--3	Aluminum	20.0000	19.4752	97.4	90.0 110.0
	Antimony	4.0000	4.0086	100.2	90.0 110.0
	Arsenic	1.6000	1.5745	98.4	90.0 110.0
	Barium	4.0000	3.7769	94.4	90.0 110.0
	Beryllium	0.4000	0.3911	97.8	90.0 110.0
	Cadmium	4.0000	3.8623	96.6	90.0 110.0
	Calcium	40.0000	39.6900	99.2	90.0 110.0
	Chromium	4.0000	3.8833	97.1	90.0 110.0
	Copper	4.0000	3.8151	95.4	90.0 110.0
	Iron	4.0000	3.8138	95.3	90.0 110.0
	Lead	20.0000	19.0276	95.1	90.0 110.0
	Magnesium	20.0000	19.5952	98.0	90.0 110.0
	Manganese	4.0000	3.8052	95.1	90.0 110.0
	Nickel	8.0000	7.6535	95.7	90.0 110.0
	Potassium	40.0000	39.6865	99.2	90.0 110.0
	Selenium	1.6000	1.5181	94.9	90.0 110.0
	Silver	0.4000	0.4201	105.0	90.0 110.0
	Sodium	40.0000	39.0637	97.7	90.0 110.0
	Thallium	4.0000	3.7412	93.5	90.0 110.0
	Vanadium	1.6000	1.5753	98.5	90.0 110.0
	Zinc	4.0000	3.8588	96.5	90.0 110.0
CCV3--4	Molybdenum	20.0000	19.7775	98.9	90.0 110.0
	Aluminum	20.0000	19.9146	99.6	90.0 110.0
	Antimony	4.0000	4.0115	100.3	90.0 110.0
	Arsenic	1.6000	1.6313	102.0	90.0 110.0
	Barium	4.0000	3.8701	96.8	90.0 110.0
	Beryllium	0.4000	0.4078	101.9	90.0 110.0
	Cadmium	4.0000	3.9836	99.6	90.0 110.0
	Calcium	40.0000	40.7504	101.9	90.0 110.0

Analysis Batch Number: ICPWA-09/24/96-010 -2

Test Identification : ICPWA-Metals by ICP

Number of Samples : 14

Batch Data-Date/Time : 09/24/96 / 17:17:06

Sequence : DATC268

		QC LIMITS			
CV #	ANALYTE	TRUE VALUE	BATCH READ	% REC #	LOWER UPPER
CCV3--4	Chromium	4.0000	4.0028	100.1	90.0 110.0
	Copper	4.0000	3.9151	97.9	90.0 110.0
	Iron	4.0000	3.9753	99.4	90.0 110.0
	Lead	20.0000	19.4547	97.3	90.0 110.0
	Magnesium	20.0000	20.0755	100.4	90.0 110.0
	Manganese	4.0000	3.9120	97.8	90.0 110.0
	Nickel	8.0000	7.8815	98.5	90.0 110.0
	Potassium	40.0000	40.4407	101.1	90.0 110.0
	Selenium	1.6000	1.6507	103.2	90.0 110.0
	Silver	0.4000	0.4337	108.4	90.0 110.0
	Sodium	40.0000	39.2281	98.1	90.0 110.0
	Thallium	4.0000	3.8012	95.0	90.0 110.0
	Vanadium	1.6000	1.6194	101.2	90.0 110.0
	Zinc	4.0000	3.9553	98.9	90.0 110.0
CCV4--5	Molybdenum	20.0000	20.3911	102.0	90.0 110.0
	Aluminum	20.0000	20.0711	100.4	90.0 110.0
	Antimony	4.0000	4.0220	100.6	90.0 110.0
	Arsenic	1.6000	1.6035	100.2	90.0 110.0
	Barium	4.0000	3.9156	97.9	90.0 110.0
	Beryllium	0.4000	0.3993	99.8	90.0 110.0
	Cadmium	4.0000	3.9206	98.0	90.0 110.0
	Calcium	40.0000	39.8531	99.6	90.0 110.0
	Chromium	4.0000	3.9413	98.5	90.0 110.0
	Copper	4.0000	3.9379	98.4	90.0 110.0
	Iron	4.0000	3.8432	96.1	90.0 110.0
	Lead	20.0000	19.1778	95.9	90.0 110.0
	Magnesium	20.0000	19.9605	99.8	90.0 110.0
	Manganese	4.0000	3.8621	96.6	90.0 110.0
CCB#	Nickel	8.0000	7.7755	97.2	90.0 110.0
	Potassium	40.0000	40.8527	102.1	90.0 110.0
	Selenium	1.6000	1.5923	99.5	90.0 110.0
	Silver	0.4000	0.4307	107.7	90.0 110.0
	Sodium	40.0000	41.4451	103.6	90.0 110.0
	Thallium	4.0000	3.8285	95.7	90.0 110.0
	Vanadium	1.6000	1.6071	100.4	90.0 110.0
	Zinc	4.0000	3.8875	97.2	90.0 110.0
	Molybdenum	20.0000	20.2935	101.5	90.0 110.0
	Aluminum	0.0224		0.2000	
	Antimony	ND		0.1000	
	Arsenic	0.0084		0.0500	
	Barium	0.0010		0.2000	
CB-	Beryllium	0.0001		0.0050	
	Cadmium	0.0036		0.0050	
	Calcium	0.0089		1.0000	
	Chromium	0.0047		0.0100	
	Copper	0.0040		0.0250	
	Iron	0.0127		0.1000	

Analysis Batch Number: ICPWA-09/24/96-010 -2

Test Identification : ICPWA-Metals by ICP

Sequence : DATC268

Number of Samples : 14

Batch Data-Date/Time : 09/24/96 / 17:17:06

CB#	ANALYTE	CONC FOUND #	CONC LIMIT
CB-	Lead	ND	0.0500
	Magnesium	0.0261	1.0000
	Manganese	0.0001	0.0150
	Nickel	0.0135	0.0400
	Potassium	0.0640	1.0000
	Selenium	0.0400	0.1000
	Silver	0.0044	0.0100
	Sodium	0.0328	1.0000
	Thallium	0.0010	0.1500
	Vanadium	0.0020	0.0500
	Zinc	ND	0.0600
	Molybdenum	ND	0.0500
CCB1-	Aluminum	0.0078	0.2000
	Antimony	ND	0.1000
	Arsenic	ND	0.0500
	Barium	0.0004	0.2000
	Beryllium	ND	0.0050
	Cadmium	0.0005	0.0050
	Calcium	0.0067	1.0000
	Chromium	ND	0.0100
	Copper	0.0015	0.0250
	Iron	ND	0.1000
	Lead	ND	0.0500
	Magnesium	0.0088	1.0000
	Manganese	ND	0.0150
	Nickel	0.0122	0.0400
	Potassium	0.0308	1.0000
	Selenium	0.0464	0.1000
	Silver	0.0026	0.0100
	Sodium	0.0208	1.0000
	Thallium	0.0137	0.1500
	Vanadium	0.0004	0.0500
	Zinc	ND	0.0600
	Molybdenum	ND	0.0500
CB2-	Aluminum	0.0078	0.2000
	Antimony	ND	0.1000
	Arsenic	ND	0.0500
	Barium	0.0005	0.2000
	Beryllium	ND	0.0050
	Cadmium	0.0036	0.0050
	Calcium	0.0035	1.0000
	Chromium	ND	0.0100
	Copper	0.0005	0.0250
	Iron	ND	0.1000
	Lead	ND	0.0500
	Magnesium	ND	1.0000
	Manganese	ND	0.0150
	Nickel	ND	0.0400
	Potassium	ND	1.0000
	Selenium	ND	0.1000

Mountain States Analytical, Inc.
Daily QC Batching Data
Data Released for Reporting

10/31/96
16:38:00

Analysis Batch Number: ICPWA-09/24/96-010 -2

Test Identification : ICPWA-Metals by ICP

Sequence : DATC268

Number of Samples : 14

Batch Data-Date/Time : 09/24/96 / 17:17:06

CB#	ANALYTE	CONC FOUND #	CONC LIMIT
CB2-	Silver	ND	0.0100
	Sodium	0.0081	1.0000
	Thallium	0.0124	0.1500
	Vanadium	ND	0.0500
	Zinc	ND	0.0600
	Molybdenum	ND	0.0500
CB3-	Aluminum	0.0204	0.2000
	Antimony	ND	0.1000
	Arsenic	ND	0.0500
	Barium	0.0005	0.2000
	Beryllium	ND	0.0050
	Cadmium	0.0033	0.0050
	Calcium	0.0053	1.0000
	Chromium	0.0017	0.0100
	Copper	0.0010	0.0250
	Iron	0.0141	0.1000
	Lead	ND	0.0500
	Magnesium	ND	1.0000
	Manganese	ND	0.0150
	Nickel	0.0087	0.0400
	Potassium	0.0125	1.0000
	Selenium	ND	0.1000
	Silver	0.0017	0.0100
	Sodium	0.0448	1.0000
	Thallium	0.0185	0.1500
	Vanadium	ND	0.0500
	Zinc	ND	0.0600
	Molybdenum	ND	0.0500
CCB4-	Aluminum	0.0057	0.2000
	Antimony	ND	0.1000
	Arsenic	ND	0.0500
	Barium	0.0013	0.2000
	Beryllium	ND	0.0050
	Cadmium	0.0030	0.0050
	Calcium	0.0085	1.0000
	Chromium	0.0023	0.0100
	Copper	0.0018	0.0250
	Iron	ND	0.1000
	Lead	ND	0.0500
	Magnesium	0.0076	1.0000
	Manganese	ND	0.0150
	Nickel	0.0142	0.0400
	Potassium	0.0529	1.0000
	Selenium	ND	0.1000
	Silver	0.0028	0.0100
	Sodium	0.0398	1.0000
	Thallium	0.0109	0.1500
	Vanadium	0.0015	0.0500
	Zinc	ND	0.0600
	Molybdenum	ND	0.0500

Mountain States Analytical, Inc.
Daily QC Batching Data
Data Released for Reporting

10/31/96
16:38:04

Analysis Batch Number: ICPWA-09/24/96-010 -2

Test Identification : ICPWA-Metals by ICP

Sequence : DATC268

Number of Samples : 14

Batch Data-Date/Time : 09/24/96 / 17:17:06

----- Result Footnotes -----

- (2a) - Recovery is valid because sample conc. is >4x spike conc.
- (1a) - RPD has no significance due to insignificant spikes.
- (4a) - RPD is valid because Spike and Spike Duplicate are within method requirements.
- (11) - Both Duplicate results are less than the LOQ.
- (B) - Incomplete Homogenization
- (3a) - Duplicate is valid because result is <5x the detection limit

Groups & Samples

13488-52765 13489-52767 13489-52768 13489-52769 13489-52770 13545-52930 13545-52931 13562-52998
13562-52999 13568-53016

CHAIN OF CUSTODY RECORD

ON SITE
TECHNOLOGIES LTD.

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LAB: (505) 325-5667 • FAX: (505) 325-6256

CHAIN OF CUSTODY RECORD

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Page _____ of _____
Date: _____

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CHAIN OF CUSTODY RECORD

Date: 10/10/96

Page 5 of 5

Purchase Order No.: <u>Job No.</u>		Name <u>Terry G. H.</u>		Title <u>Company</u>	
Name <u>Terry G. H.</u>		Company <u>BioTech Remediation Inc.</u>		Dept.	
Address <u>210 E. 20th Street Suite 400</u>		City, State, Zip <u>Bloomfield NM 87411</u>		Telephone No.	
Sampling Location: <u>Third Way Pet. Corp</u> <u>626 Rd 5500</u> <u>Bloomfield NM</u>		Sampler: <u>Karen Smith</u> <u>Dan Smith</u>		RESPORT TO	
INVOICE TO		CONTAINERS		RESULTS TO	
		Number of Containers <u>6</u>		Name <u>Company</u>	
SAMPLE IDENTIFICATION		SAMPLE	MATRIX	PRES.	LAB ID
STR. SPEC. L. lot #		DATE <u>10/10/96</u>	TIME <u>14:20</u>	DATE <u>10/10/96</u>	<u>1</u>
STR. SPEC. L. lot # (CONT)		DATE <u>10/10/96</u>	TIME <u>14:30</u>	DATE <u>10/10/96</u>	<u>1</u>
Relinquished by: <u>Terry G. H.</u>		Date/Time <u>10/10/96</u>	Received by: <u>None</u>		Date/Time <u>10/10/96</u>
Relinquished by:		Date/Time	Received by:		Date/Time
Relinquished by:		Date/Time	Received by:		Date/Time
Method of Shipment:		Rush	24-48 Hours	10 Working Days	Special Instructions:
Authorized by: _____ Date _____		(Client Signature Must Accompany Request)			
Distribution: White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client					

OFF: (505) 325-5667



ORIGINAL

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Ross Kennemer* Date: 8-Jan-97
Company: *BioTech Remediation* COC No.: 6253
Address: *710 E 20th Street, Suite 400* Sample No. 13280
City, State: *Farmington, NM 87401* Job No. 2-1000

Project Name: ***Thriftway Refinery 626 Rd 5500 Bloomfield, NM***
Project Location: ***MW-01***
Sampled by: KS Date: 31-Dec-96 Time: 16:10
Analyzed by: DC Date: 5-Jan-97
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	219.6	ug/L	0.2	ug/L
<i>Benzene</i>	164.0	ug/L	0.2	ug/L
<i>Toluene</i>	5.3	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	19.8	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	162.3	ug/L	0.2	ug/L
<i>o-Xylene</i>	14.3	ug/L	0.2	ug/L
TOTAL	585.4	ug/L		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by:

Date:

[Signature]
1/8/97

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AROMATIC VOLATILE ORGANICS

Attn: *Ross Kennemer* Date: 8-Jan-97
Company: *BioTech Remediation* COC No.: 6253
Address: *710 E 20th Street, Suite 400* Sample No.: 13281
City, State: *Farmington, NM 87401* Job No.: 2-1000

Project Name: ***Thriftway Refinery 626 Rd 5500 Bloomfield, NM***
Project Location: ***MW-04***
Sampled by: KS Date: 31-Dec-96 Time: 12:00
Analyzed by: DC Date: 5-Jan-97
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	27.0	ug/L	0.2	ug/L
<i>Benzene</i>	3.5	ug/L	0.2	ug/L
<i>Toluene</i>	1.4	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	1.7	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	1.3	ug/L	0.2	ug/L
<i>o-Xylene</i>	0.3	ug/L	0.2	ug/L
	<i>TOTAL</i>	35.1	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: 1/8/97

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AROMATIC VOLATILE ORGANICS

Attn: *Ross Kennemer* Date: 8-Jan-97
Company: *BioTech Remediation* COC No.: 6253
Address: *710 E 20th Street, Suite 400* Sample No. 13282
City, State: *Farmington, NM 87401* Job No. 2-1000

Project Name: *Thriftway Refinery 626 Rd 5500 Bloomfield, NM*
Project Location: *MW-05*
Sampled by: KS Date: 31-Dec-96 Time: 11:30
Analyzed by: DC Date: 5-Jan-97
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	47.9	ug/L	0.2	ug/L
<i>Benzene</i>	4.8	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	1.1	ug/L	0.2	ug/L
<i>TOTAL</i>	54.0	ug/L		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *DG*
Date: *1/8/97*

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AROMATIC VOLATILE ORGANICS

Attn: *Ross Kennemer* Date: 8-Jan-97
Company: *BioTech Remediation* COC No.: 6253
Address: *710 E 20th Street, Suite 400* Sample No. 13283
City, State: *Farmington, NM 87401* Job No. 2-1000

Project Name: *Thriftway Refinery 626 Rd 5500 Bloomfield, NM*
Project Location: *MW-06*
Sampled by: *KS* Date: 31-Dec-96 Time: 12:30
Analyzed by: *DC* Date: 5-Jan-97
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	0.9	ug/L	0.2	ug/L
<i>Benzene</i>	0.3	ug/L	0.2	ug/L
<i>Toluene</i>	5.4	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	0.9	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	0.5	ug/L	0.2	ug/L
<i>o-Xylene</i>	0.6	ug/L	0.2	ug/L
TOTAL	8.5	ug/L		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: 1/8/97

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AROMATIC VOLATILE ORGANICS

Attn: *Ross Kennemer* Date: 8-Jan-97
Company: *BioTech Remediation* COC No.: 6253
Address: *710 E 20th Street, Suite 400* Sample No. 13284
City, State: *Farmington, NM 87401* Job No. 2-1000

Project Name: ***Thriftway Refinery 626 Rd 5500 Bloomfield, NM***
Project Location: ***MW-08***
Sampled by: ***KS*** Date: ***31-Dec-96*** Time: ***15:30***
Analyzed by: ***DC*** Date: ***5-Jan-97***
Sample Matrix: ***Liquid***

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	35.8	ug/L	0.2	ug/L
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
TOTAL	35.8	ug/L		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *DG*
Date: *1/8/97*

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AROMATIC VOLATILE ORGANICS

Attn: *Ross Kennemer* Date: 8-Jan-97
Company: *BioTech Remediation* COC No.: 6253
Address: *710 E 20th Street, Suite 400* Sample No. 13285
City, State: *Farmington, NM 87401* Job No. 2-1000

Project Name: ***Thriftway Refinery 626 Rd 5500 Bloomfield, NM***
Project Location: ***MW-09***
Sampled by: KS Date: 31-Dec-96 Time: 15:10
Analyzed by: DC Date: 5-Jan-97
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	7.2	ug/L	0.2	ug/L
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	TOTAL	7.2		ug/L

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: 1/8/97

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AROMATIC VOLATILE ORGANICS

Attn: *Ross Kennemer* Date: 8-Jan-97
Company: *BioTech Remediation* COC No.: 6253
Address: *710 E 20th Street, Suite 400* Sample No. 13286
City, State: *Farmington, NM 87401* Job No. 2-1000

Project Name: *Thriftway Refinery 626 Rd 5500 Bloomfield, NM*
Project Location: *Travel Blank*
Sampled by: KS Date: 31-Dec-96 Time: 8:30
Analyzed by: DC Date: 5-Jan-97
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Methyl-t-Butyl Ether	0.2	ug/L	0.2	ug/L
Benzene	<0.2	ug/L	0.2	ug/L
Toluene	<0.2	ug/L	0.2	ug/L
Ethylbenzene	<0.2	ug/L	0.2	ug/L
m,p-Xylene	<0.2	ug/L	0.2	ug/L
o-Xylene	<0.2	ug/L	0.2	ug/L
	TOTAL	0.2	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Dag*
Date: *1/8/97*

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AROMATIC VOLATILE ORGANICS

Attn: *Ross Kennemer*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: *8-Jan-97*
COC No.: *6253*
Sample No. *13287*
Job No. *2-1000*

Project Name: *Thriftway Refinery 626 Rd 5500 Bloomfield, NM*
Project Location: *MW-10*
Sampled by: *KS* Date: *31-Dec-96* Time: *14:45*
Analyzed by: *DC* Date: *5-Jan-97*
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	<0.2	ug/L	0.2	ug/L
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
TOTAL	<0.2	ug/L		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Dag*
Date: *1/8/97*

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AROMATIC VOLATILE ORGANICS

Attn: *Ross Kennemer* Date: 8-Jan-97
Company: *BioTech Remediation* COC No.: 6253
Address: *710 E 20th Street, Suite 400* Sample No.: 13288
City, State: *Farmington, NM 87401* Job No.: 2-1000

Project Name: *Thriftway Refinery 626 Rd 5500 Bloomfield, NM*
Project Location: *MW-11*
Sampled by: KS Date: 31-Dec-96 Time: 14:20
Analyzed by: DC Date: 6-Jan-97
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	<0.2	ug/L	0.2	ug/L
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>TOTAL</i>	<0.2	ug/L		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Dag*
Date: *1/8/97*

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AROMATIC VOLATILE ORGANICS

Attn: *Ross Kennemer* Date: 8-Jan-97
Company: *BioTech Remediation* COC No.: 6253
Address: *710 E 20th Street, Suite 400* Sample No. 13289
City, State: *Farmington, NM 87401* Job No. 2-1000

Project Name: *Thriftway Refinery 626 Rd 5500 Bloomfield, NM*
Project Location: *MW-13*
Sampled by: *KS* Date: 30-Dec-96 Time: 15:20
Analyzed by: *DC* Date: 6-Jan-97
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	<0.2	ug/L	0.2	ug/L
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	TOTAL	<0.2	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: *1/8/97*

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AROMATIC VOLATILE ORGANICS

Attn: *Ross Kennemer* Date: 8-Jan-97
Company: *BioTech Remediation* COC No.: 6253
Address: *710 E 20th Street, Suite 400* Sample No.: 13290
City, State: *Farmington, NM 87401* Job No.: 2-1000

Project Name: ***Thriftway Refinery 626 Rd 5500 Bloomfield, NM***
Project Location: ***MW-14***
Sampled by: KS Date: 30-Dec-96 Time: 15:50
Analyzed by: DC Date: 7-Jan-97
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	94.8	ug/L	0.2	ug/L
<i>Benzene</i>	6673.5	ug/L	0.2	ug/L
<i>Toluene</i>	179.4	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	857.3	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	820.6	ug/L	0.2	ug/L
<i>o-Xylene</i>	119.9	ug/L	0.2	ug/L
	<i>TOTAL</i>	8745.6	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *DAG*
Date: *1/8/97*



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AROMATIC VOLATILE ORGANICS

Attn: *Ross Kennemer* Date: 8-Jan-97
Company: *BioTech Remediation* COC No.: 6253
Address: *710 E 20th Street, Suite 400* Sample No. 13291
City, State: *Farmington, NM 87401* Job No. 2-1000

Project Name: ***Thriftway Refinery 626 Rd 5500 Bloomfield, NM***
Project Location: ***MW-15***
Sampled by: KS Date: 30-Dec-96 Time: 14:45
Analyzed by: DC Date: 6-Jan-97
Sample Matrix: *Liquid*

Laboratory Analysis

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Methyl-t-Butyl Ether</i>	<0.2	ug/L	0.2	ug/L
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	<i>TOTAL</i>	<0.2	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: 
Date: 1/8/97

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AROMATIC VOLATILE ORGANICS

Attn: *Ross Kennemer* Date: 8-Jan-97
Company: *BioTech Remediation* COC No.: 6254
Address: *710 E 20th Street, Suite 400* Sample No.: 13292
City, State: *Farmington, NM 87401* Job No.: 2-1000

Project Name: ***Thriftway Refinery 626 Rd 5500 Bloomfield, NM***
Project Location: ***MW-16***
Sampled by: KS Date: 30-Dec-96 Time: 16:15
Analyzed by: DC Date: 6-Jan-97
Sample Matrix: *Liquid*

Laboratory Analysis

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Methyl-t-Butyl Ether</i>	<0.2	ug/L	0.2	ug/L
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	<i>TOTAL</i>	<0.2	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Jac*
Date: *1/8/97*

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AROMATIC VOLATILE ORGANICS

Attn: *Ross Kennemer* Date: 8-Jan-97
Company: *BioTech Remediation* COC No.: 6254
Address: *710 E 20th Street, Suite 400* Sample No.: 13293
City, State: *Farmington, NM 87401* Job No.: 2-1000

Project Name: ***Thriftway Refinery 626 Rd 5500 Bloomfield, NM***
Project Location: ***MW-18***
Sampled by: KS Date: 31-Dec-96 Time: 10:45
Analyzed by: DC Date: 6-Jan-97
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	43.1	ug/L	0.2	ug/L
<i>Benzene</i>	176.0	ug/L	0.2	ug/L
<i>Toluene</i>	1.9	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	1.3	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	0.7	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	TOTAL	222.9		ug/L

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Dag*
Date: *1/8/97*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Ross Kennemer* Date: 8-Jan-97
Company: *BioTech Remediation* COC No.: 6254
Address: *710 E 20th Street, Suite 400* Sample No. 13294
City, State: *Farmington, NM 87401* Job No. 2-1000

Project Name: ***Thriftway Refinery 626 Rd 5500 Bloomfield, NM***
Project Location: ***MW-19***
Sampled by: KS Date: 30-Dec-96 Time: 17:15
Analyzed by: DC Date: 6-Jan-97
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	65.7	ug/L	0.2	ug/L
<i>Benzene</i>	17.9	ug/L	0.2	ug/L
<i>Toluene</i>	3.5	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	43.0	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	61.9	ug/L	0.2	ug/L
<i>o-Xylene</i>	0.6	ug/L	0.2	ug/L
	<i>TOTAL</i>	192.5	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: *1/8/97*



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LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Ross Kennemer* Date: 8-Jan-97
Company: *BioTech Remediation* COC No.: 6254
Address: *710 E 20th Street, Suite 400* Sample No. 13295
City, State: *Farmington, NM 87401* Job No. 2-1000

Project Name: *Thriftway Refinery 626 Rd 5500 Bloomfield, NM*
Project Location: *Travel Blank*
Sampled by: KS Date: 30-Dec-96 Time: 11:00
Analyzed by: DC Date: 6-Jan-97
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Methyl-t-Butyl Ether	0.2	ug/L	0.2	ug/L
Benzene	<0.2	ug/L	0.2	ug/L
Toluene	<0.2	ug/L	0.2	ug/L
Ethylbenzene	<0.2	ug/L	0.2	ug/L
m,p-Xylene	<0.2	ug/L	0.2	ug/L
o-Xylene	<0.2	ug/L	0.2	ug/L
TOTAL		0.2	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: 1/8/97

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LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Ross Kennemer* Date: 8-Jan-97
Company: *BioTech Remediation* COC No.: 6254
Address: *710 E 20th Street, Suite 400* Sample No. 13296
City, State: *Farmington, NM 87401* Job No. 2-1000

Project Name: ***Thriftway Refinery 626 Rd 5500 Bloomfield, NM***
Project Location: ***MW-20***
Sampled by: KS Date: 31-Dec-96 Time: 9:00
Analyzed by: DC Date: 6-Jan-97
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	53.3	ug/L	0.2	ug/L
<i>Benzene</i>	2.7	ug/L	0.2	ug/L
<i>Toluene</i>	14.3	ug/L	0.2	ug/L
<i>Ethyl/benzene</i>	9.5	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	4.5	ug/L	0.2	ug/L
<i>o-Xylene</i>	1.2	ug/L	0.2	ug/L
	TOTAL	85.4	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: 1/8/97

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LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Ross Kennemer* Date: 8-Jan-97
Company: *BioTech Remediation* COC No.: 6254
Address: *710 E 20th Street, Suite 400* Sample No. 13297
City, State: *Farmington, NM 87401* Job No. 2-1000

Project Name: *Thriftway Refinery 626 Rd 5500 Bloomfield, NM*
Project Location: *MW-21*
Sampled by: *KS* Date: 31-Dec-96 Time: 9:30
Analyzed by: *DC* Date: 6-Jan-97
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	51.3	ug/L	0.2	ug/L
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	0.5	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	TOTAL	52.0		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: 1/8/97

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



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LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Ross Kennemer* Date: 8-Jan-97
Company: *BioTech Remediation* COC No.: 6254
Address: *710 E 20th Street, Suite 400* Sample No. 13298
City, State: *Farmington, NM 87401* Job No. 2-1000

Project Name: *Thriftway Refinery 626 Rd 5500 Bloomfield, NM*
Project Location: *MW-22*
Sampled by: *KS* Date: 31-Dec-96 Time: 10:00
Analyzed by: *DC* Date: 6-Jan-97
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	22.1	ug/L	0.2	ug/L
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	TOTAL	22.1	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: 1/8/97

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 5-Jan-97**Internal QC No.:** 0515-QC**Surrogate QC No.:** 0516-QC**Reference Standard QC No.:** 0417-QC**Method Blank**

Parameter	Result	Unit of Measure
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Parameter	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Methyl-t-Butyl Ether	ppb	20.0	17.1	14	15%
Benzene	ppb	20.0	19.1	5	15%
Toluene	ppb	20.0	20.0	0	15%
Ethylbenzene	ppb	20.0	20.5	3	15%
m,p-Xylene	ppb	40.0	40.0	0	15%
o-Xylene	ppb	20.0	20.3	1	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Methyl-t-Butyl Ether	72	65	(39-150)	7	20%
Benzene	92	80	(39-150)	10	20%
Toluene	77	64	(46-148)	12	20%
Ethylbenzene	62	56	(32-160)	7	20%
m,p-Xylene	56	49	(35-145)	9	20%
o-Xylene	63	58	(35-145)	6	20%

Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered	Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered
Limit Percent Recovery	(70-130)		Limit Percent Recovery	(70-130)	
13280-6253	90				
13281-6253	94				
13282-6253	93				
13283-6253	92				
13284-6253	92				
13285-6253	93				
13286-6253	93				
13287-6253	93				

(mc)

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 6-Jan-97**Internal QC No.:** 0515-QC**Surrogate QC No.:** 0516-QC**Reference Standard QC No.:** 0417-QC**Method Blank**

Parameter	Result	Unit of Measure
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Parameter	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Methyl-t-Butyl Ether	ppb	20.0	17.4	13	15%
Benzene	ppb	20.0	18.8	6	15%
Toluene	ppb	20.0	19.6	2	15%
Ethylbenzene	ppb	20.0	20.0	0	15%
m,p-Xylene	ppb	40.0	39.0	2	15%
o-Xylene	ppb	20.0	19.8	1	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Methyl-t-Butyl Ether	88	88	(39-150)	0	20%
Benzene	96	93	(39-150)	2	20%
Toluene	99	96	(46-148)	2	20%
Ethylbenzene	102	102	(32-160)	0	20%
m,p-Xylene	99	96	(35-145)	2	20%
o-Xylene	102	97	(35-145)	4	20%

Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered	Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered
Limit Percent Recovery	(70-130)		Limit Percent Recovery	(70-130)	
13288-6253	93		13297-6254	93	
13289-6253	93		13298-6254	93	
13291-6253	93				
13292-6254	93				
13293-6254	93				
13294-6254	90				
13295-6254	93				
13296-6254	88				

(vm)

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 7-Jan-97

Internal QC No.: 0515-QC

Surrogate QC No.: 0516-QC

Reference Standard QC No.: 0417-QC

Method Blank

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>
<i>Average Amount of All Analytes In Blank</i>	<0.2	ppb

Calibration Check

Calibration Check					
Parameter	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Methyl- <i>t</i> -Butyl Ether	ppb	20.0	18.4	8	15%
Benzene	ppb	20.0	20.0	0	15%
Toluene	ppb	20.0	20.8	4	15%
Ethylbenzene	ppb	20.0	21.3	6	15%
<i>m,p</i> -Xylene	ppb	40.0	41.4	4	15%
<i>o</i> -Xylene	ppb	20.0	20.8	4	15%

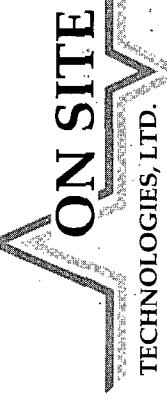
Matrix Spike

<i>Parameter</i>	<i>1- Percent Recovered</i>	<i>2 - Percent Recovered</i>	<i>Limit</i>	<i>%RSD</i>	<i>Limit</i>
<i>Methyl-t-Butyl Ether</i>	88	88	(39-150)	0	20%
<i>Benzene</i>	96	93	(39-150)	2	20%
<i>Toluene</i>	99	96	(46-148)	2	20%
<i>Ethylbenzene</i>	102	102	(32-160)	0	20%
<i>m,p-Xylene</i>	99	96	(35-145)	2	20%
<i>o-Xylene</i>	102	97	(35-145)	4	20%

Surrogate Recoveries

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



CHAIN OF CUSTODY RECORD

657 W. Maple • P.O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Page 1 of 2

Date: _____

Purchase Order No.: <u>397101</u>		Job No.		Name <u>Terry Griffis</u>		Title	
Name <u>Terry Griffis</u>		Company <u>Bio Tech Remediation, Inc.</u>		Name <u>Company</u>		Title	
Address <u>210 E. 20th St. Suite 400</u>		Dept.		Mailing Address			
City, State, Zip <u>Farmington, NM 87401</u>				City, State, Zip			
Sampling Location: <u>The, Itasca Refinery</u> <u>626 Rd 15500</u> <u>Bloomfield, NM</u>				Telephone No.		Telefax No.	
Sampler: <u>Ken Sisk</u>							
INVOICE TO		REPORT TO		RESULTS TO			
Number of Containers		Container #		Number of Containers		Container #	
1		1		2		2	
3		3		4		4	
5		5		6		6	
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CHAIN OF CUSTODY RECORD

ON SITE

TECHNOLOGIES, LTD.

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LAB: (505) 325-5667 • FAX: (505) 325-6256

Page 2 of 2
Date: _____

Purchase Order No.: B92/31 Job No.

Purchase Order No.: B97101	Job No.												
INVOICE TO Company Bio-Tech Remediation, Inc Dept.			RESULTS TO Company										
Address 210 E 20th St. Suite 400			Mailing Address										
City, State, Zip Farmington, NM 87401			City, State, Zip										
Sampling Location: Three (3) Ref. very 626 Ed 3500 Blown off. Nm			Telephone No. _____ Telefax No. _____										
Sampler: Ken Sinks			ANALYSIS REQUESTED										
Number of Containers 3													
SAMPLE IDENTIFICATION			SAMPLE DATE	TIME	MATRIX	PRES.	LAB ID						
MW-16			12/30	1615	HgCl₂	2 ✓							
MW-18			12/31	1045	HgCl₂	2 ✓							
MW-19			12/30	1315	HgCl₂	2 ✓							
Travel Blank			12/30	1100	HgCl₂	2 ✓							
MW-20			12/31	0900	HgCl₂	2 ✓							
MW-21			12/31	0730	HgCl₂	2 ✓							
MW-22			12/31	1000	HgCl₂	2 ✓							
Ken Sinks			Date/Time 12/27 2 pm	Received by:		Date/Time 1/1 1:15 pm							
			Date/Time	Received by:		Date/Time							
			Date/Time	Received by:		Date/Time							
Method of Shipment:			Rush	24-48 Hours		10 Working Days						Special Instructions:	
Authorized by: _____			Date _____										
(Client Signature Must Accompany Request)													

OFF: (505) 325-5667



APR 10 1997

GO

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Terry Griffin*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: *7-Apr-97*
COC No.: *6039*
Sample No.: *14115*
Job No.: *B97-265*

Project Name: *Thriftway 812*
Project Location: *Effluent*
Sampled by: DA
Analyzed by: DC
Sample Matrix: *Liquid*

Date: *4-Apr-97* Time: *8:52*
Date: *4-Apr-97*

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Benzene	<0.2	ug/L	0.2	ug/L
Toluene	0.3	ug/L	0.2	ug/L
Ethylbenzene	<0.2	ug/L	0.2	ug/L
m,p-Xylene	0.7	ug/L	0.2	ug/L
o-Xylene	<0.2	ug/L	0.2	ug/L
<i>TOTAL</i>	1.0	ug/L		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved By: *Dag*
Date: *4/7/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 4-Apr-97

Internal QC No.: 0527-STD

Surrogate QC No.: 0528-STD

Reference Standard QC No.: 0529/30-QC

Method Blank

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>
<i>Average Amount of All Analytes In Blank</i>	<0.2	ppb

Calibration Check

Calibration Check					
Parameter	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Benzene	ppb	20.0	20.5	2	15%
Toluene	ppb	20.0	21.2	6	15%
Ethylbenzene	ppb	20.0	21.8	9	15%
<i>m,p-Xylene</i>	ppb	40.0	41.3	3	15%
<i>o-Xylene</i>	ppb	20.0	21.3	7	15%

Matrix Spike

<i>Parameter</i>	<i>1- Percent Recovered</i>	<i>2 - Percent Recovered</i>	<i>Limit</i>	<i>%RSD</i>	<i>Limit</i>
Benzene	91	88	(39-150)	2	20%
Toluene	96	91	(46-148)	2	20%
Ethylbenzene	92	89	(32-160)	2	20%
<i>m,p-Xylene</i>	87	82	(35-145)	2	20%
<i>o-Xylene</i>	78	77	(35-145)	1	20%

Surrogate Recoveries

S1: Fluorobenzene

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: *22-Jul-96*
COC No.: *4149*
Sample No. *11551*
Job No. *B-3014*

Project Name: *Bio Tech Remediation*
Project Location: *Refinery Stripper Outlet*
Sampled by: KS Date: 18-Jul-96 Time: 14:40
Analyzed by: DC/HR Date: 19-Jul-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Methyl-t-Butyl Ether	7.4	ug/L	0.2	ug/L
Benzene	62.6	ug/L	0.2	ug/L
Toluene	43.7	ug/L	0.2	ug/L
Ethylbenzene	13.1	ug/L	0.2	ug/L
m,p-Xylene	69.6	ug/L	0.2	ug/L
o-Xylene	19.3	ug/L	0.2	ug/L
TOTAL		215.7	ug/L	

JUL 24
[Signature]

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Terry G*
Date: *7/22/96*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: *22-Jul-96*
COC No.: *4149*
Sample No. *11552*
Job No. *B-3014*

Project Name: *Bio Tech Remediation*
Project Location: *Refinery Stripper Inlet*
Sampled by: KS Date: 18-Jul-96 Time: 14:30
Analyzed by: DC/HR Date: 19-Jul-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Methyl-t-Butyl Ether	26.9	ug/L	0.2	ug/L
Benzene	5255.8	ug/L	0.2	ug/L
Toluene	3155.6	ug/L	0.2	ug/L
Ethylbenzene	706.6	ug/L	0.2	ug/L
m,p-Xylene	3512.9	ug/L	0.2	ug/L
o-Xylene	885.7	ug/L	0.2	ug/L
	TOTAL	13543.5	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *JG*
Date: *7/22/96*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: *22-Jul-96*
COC No.: *4149*
Sample No. *11553*
Job No. *B-3014*

Project Name: *Bio Tech Remediation*
Project Location: *Travel Blank*
Sampled by: *KS* Date: *18-Jul-96* Time: *13:45*
Analyzed by: *DC/HR* Date: *19-Jul-96*
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	<0.2	ug/L	0.2	ug/L
<i>Benzene</i>	<0.2	ug/L	0.2	ug/L
<i>Toluene</i>	<0.2	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	<0.2	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	<0.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	<0.2	ug/L	0.2	ug/L
	TOTAL	<0.2	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *JG*
Date: *7/21/96*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 19-Jul-96**Internal QC No.:** 0444-STD**Surrogate QC No.:** 0445-STD**Reference Standard QC No.:** 0417-QC**Method Blank**

Parameter	Result	Unit of Measure
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Parameter	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Methyl-t-Butyl Ether	ppb	20.0	19.5	2	15%
Benzene	ppb	20.0	19.6	2	15%
Toluene	ppb	20.0	19.9	1	15%
Ethylbenzene	ppb	20.0	20.0	0	15%
m,p-Xylene	ppb	40.0	39.4	2	15%
o-Xylene	ppb	20.0	19.7	2	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Methyl-t-Butyl Ether	86	78	(39-150)	7	20%
Benzene	107	107	(39-150)	0	20%
Toluene	96	98	(46-148)	1	20%
Ethylbenzene	100	101	(32-160)	1	20%
m,p-Xylene	86	87	(35-145)	1	20%
o-Xylene	91	93	(35-145)	1	20%

Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered	Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered
Limit Percent Recovery	(70-130)		Limit Percent Recovery	(70-130)	
11551-4149	100				
11552-4149	104				
11553-4149	102				

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-8786

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: *7-Jun-96*
COC No.: *4137*
Sample No. *11105*
Job No. *B2921*

Project Name: *626 Road 5500 Bloomfield, NM*
Project Location: *Stripper Outlet*
Sampled by: KS Date: 4-Jun-96 Time: 16:15
Analyzed by: DC Date: 7-Jun-96
Sample Matrix: *Liquid*

Laboratory Analysis

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>	<i>Detection Limit</i>	<i>Unit of Measure</i>
<i>Methyl-t-Butyl Ether</i>	3.5	ug/L	0.2	ug/L
<i>Benzene</i>	2.4	ug/L	0.2	ug/L
<i>Toluene</i>	0.7	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	0.9	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	3.6	ug/L	0.2	ug/L
<i>o-Xylene</i>	0.2	ug/L	0.2	ug/L
	TOTAL	11.4	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Jack*
Date: *6/7/96*

P. O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-8786

LAB: (505) 325-5667

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin* Date: 7-Jun-96
Company: *BioTech Remediation* COC No.: 4137
Address: *710 E 20th Street, Suite 400* Sample No. 11106
City, State: *Farmington, NM 87401* Job No. B2921

Project Name: **626 Road 5500 Bloomfield, NM**
Project Location: **UST Liner**
Sampled by: KS Date: 4-Jun-96 Time: 10:10
Analyzed by: DC Date: 7-Jun-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Methyl-t-Butyl Ether	0.2	ug/L	0.2	ug/L
Benzene	<0.2	ug/L	0.2	ug/L
Toluene	<0.2	ug/L	0.2	ug/L
Ethylbenzene	<0.2	ug/L	0.2	ug/L
m,p-Xylene	0.3	ug/L	0.2	ug/L
o-Xylene	<0.2	ug/L	0.2	ug/L
TOTAL		0.5	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *JAC*
Date: *6/7/96*

P. O. BOX 2606 • FARMINGTON, NM 87499

– TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT –



OFF: (505) 325-8786

LAB: (505) 325-5667

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 7-Jun-96*Internal QC No.:* 0444-STD*Surrogate QC No.:* 0445-STD*Reference Standard QC No.:* 0355-STD***Method Blank***

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

<i>Parameter</i>	<i>Unit of Measure</i>	<i>True Value</i>	<i>Analyzed Value</i>	<i>% Diff</i>	<i>Limit</i>
Methyl-t-Butyl Ether	ppb	20.0	20.5	3	15%
Benzene	ppb	20.0	19.4	3	15%
Toluene	ppb	20.0	19.8	1	15%
Ethylbenzene	ppb	20.0	20.0	0	15%
m,p-Xylene	ppb	40.0	40.0	0	15%
o-Xylene	ppb	20.0	19.6	2	15%

Matrix Spike

<i>Parameter</i>	<i>1- Percent Recovered</i>	<i>2 - Percent Recovered</i>	<i>Limit</i>	<i>%RSD</i>	<i>Limit</i>
Methyl-t-Butyl Ether	83	64	(39-150)	18	20%
Benzene	101	109	(39-150)	5	20%
Toluene	105	112	(46-148)	5	20%
Ethylbenzene	103	110	(32-160)	5	20%
m,p-Xylene	101	108	(35-145)	5	20%
o-Xylene	103	105	(35-145)	1	20%

Surrogate Recoveries

<i>Laboratory Identification</i>	<i>S1 Percent Recovered</i>	<i>S2 Percent Recovered</i>	<i>Laboratory Identification</i>	<i>S1 Percent Recovered</i>	<i>S2 Percent Recovered</i>
Limit Percent Recovery	(70-130)		Limit Percent Recovery	(70-130)	
11099-4136	98				
11100-4137	98				
11101-4137	98				
11102-4137	101				
11103-4137	98				
11104-4137	100				
11105-4137	102				
11106-4137	99				

P. O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

WATER ANALYSIS

Attn: *Terry Griffin*
 Company: *BioTech Remediation*
 Address: *710 E 20th Street, Suite 400*
 City, State: *Farmington, NM 87401*

Date: *12-Jun-96*
 COC No.: *4138*
 Sample ID: *11107*
 Job No.: *2-1000*

Project Name: *626 Road 5500 Bloomfield, NM*
 Project Location: *810 Stripper Influent*
 Sampled by: KS Date: *6-Jun-96* Time: *9:15*
 Analyzed by: HR Date: *11-Jun-96*

Laboratory Analysis

<i>Parameter</i>		<i>Result</i>	<i>Unit of Measure</i>		<i>Result</i>	<i>Unit of Measure</i>	
<i>Cations</i>							
Sodium	Na	712	mg/L		30.97	me/L	
Calcium	Ca	228.0	mg/L		11.38	me/L	
Magnesium	Mg	39.5	mg/L		3.25	me/L	
Potassium	K	7.5	mg/L		0.19	me/L	
<i>Anions</i>							
Chloride	Cl	1994	mg/L		56.24	me/L	
Sulfate	SO4	1121	mg/L		23.34	me/L	
Carbonate	CO3	<1	mg/L		<0.01	me/L	
Bicarbonate	HCO3	<1	mg/L		<0.01	me/L	
Hydroxide	OH	<1	mg/L		<0.01	me/L	
Nitrate	NO3	<0.05	mg/L		<0.01	me/L	
<i>Total Dissolved Solids</i>							
Calculated, Sum of Cation/Anion		4102	mg/L	<i>Cation-Anion Balance</i>			
Dried @ 180oC		3195	mg/L				
pH		1.65					
Resistivity		0.6618	ohm-m				
Conductivity		15.11	mS/cm				
Total Hardness as CaCO3		732	mg/L	<i>Comments</i>			

Approved by: *[Signature]*
 Date: *6/12/96*

33.79 Difference Cation-Anion, me/L
125.37 Total Cation-Anion, me/L
27.0 % Difference Cation-Anion

NA: Not Analyzed



OFF: (505) 325-5667

LAB: (505) 325-1556

WATER ANALYSIS

Attn: *Terry Griffin*
 Company: *BioTech Remediation*
 Address: *710 E 20th Street, Suite 400*
 City, State: *Farmington, NM 87401*

Date: *12-Jun-96*
 COC No.: *4138*
 Sample ID: *11108*
 Job No.: *2-1000*

Project Name: *626 Road 5500 Bloomfield, NM*
 Project Location: *810 Stripper Effluent*
 Sampled by: KS Date: *6-Jun-96* Time: *9:15*
 Analyzed by: HR Date: *11-Jun-96*

Laboratory Analysis

Parameter	Result	Unit of Measure		Result	Unit of Measure	
<i>Cations</i>						
Sodium Na	760	mg/L		33.06	me/L	
Calcium Ca	418.0	mg/L		20.86	me/L	
Magnesium Mg	40.0	mg/L		3.29	me/L	
Potassium K	6.1	mg/L		0.15	me/L	
<i>Anions</i>						
Chloride Cl	1599	mg/L		45.10	me/L	
Sulfate SO4	1154	mg/L		24.03	me/L	
Carbonate CO3	< 1	mg/L		< 0.01	me/L	
Bicarbonate HCO3	< 1	mg/L		< 0.01	me/L	
Hydroxide OH	< 1	mg/L		< 0.01	me/L	
Nitrate NO3	< 0.05	mg/L		< 0.01	me/L	
<i>Total Dissolved Solids</i>						
Calculated, Sum of Cation/Anion	3977	mg/L	<i>Cation-Anion Balance</i>			
Dried @ 180°C	3568	mg/L	<i>11.76 Difference Cation-Anion, me/L</i>			
pH	2.21		<i>126.49 Total Cation-Anion, me/L</i>			
Resistivity	1.1806	ohm-m	<i>9.3 % Difference Cation-Anion</i>			
Conductivity	8.47	mS/cm	<i>Comments</i>			
Total Hardness as CaCO3	1208	mg/L	<i>NA: Not Analyzed</i>			

Approved by: *TG*
 Date: *6/12/96*

OFF: (505) 325-5667



LAB: (505) 325-1556

QUALITY ASSURANCE REPORT*Water Analysis*

Date: 11-Jun-96

Quality Control Sample

<i>Parameter</i>	<i>Laboratory Identification</i>	<i>True Value</i>	<i>Analyzed Value</i>	<i>Unit of Measure</i>	<i>% Diff</i>	<i>Limit % Diff</i>
Sodium, Na	0483-QC	3.46	3.52	mg/L	2	10
Calcium, Ca	0453-QC	3.89	3.61	mg/L	-7	10
Magnesium, Mg	0453-QC	1.22	1.28	mg/L	5	10
Potassium, K	0483-QC	2.46	2.59	mg/L	5	10
Chloride, Cl	0483-QC	138	135	mg/L	-2	10
Sulfate, SO4	0463-QC	88	84	mg/L	-5	10
Alkalinity	0483-QC	180	197	mg/L	9	10
Nitrate	0611-IML	10.3	10.3	mg/L	0	10
pH	0463-QC	9.04	9.22		2	10
Conductivity	0463-QC	894	868	uS/cm	-3	15

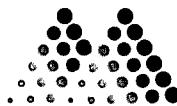
Matrix Spike

<i>Parameter</i>	<i>Laboratory Identification</i>	<i>Analyzed Value</i>	<i>Matrix Spike</i>	<i>Spike Value</i>	<i>Unit of Measure</i>	<i>Spike Recovery</i>
Sodium, Na	11174-4218	0.56	0.50	1.05	mg/L	99%
Calcium, Ca	11174-4218	0.82	0.50	1.36	mg/L	103%
Magnesium, Mg	11174-4218	1.64	0.50	2.13	mg/L	100%
Potassium, K	11174-4218	1.24	0.50	1.77	mg/L	102%

Method Blank

<i>Parameter</i>	<i>Laboratory Identification</i>	<i>Analyzed Value</i>	<i>Unit of Measure</i>
Sodium, Na	LF-Blank	<0.2	mg/L
Calcium, Ca	LF-Blank	<0.05	mg/L
Magnesium, Mg	LF-Blank	<0.05	mg/L
Potassium, K	LF-Blank	<0.05	mg/L
Chloride, Cl	LF-Blank	<2 X DL	mg/L
Sulfate, SO4	LF-Blank	<1	mg/L
Nitrate, NO3	LF-Blank	<0.05	mg/L
Conductivity	LF-Blank	<2	uS/cm

(pu) RECEIVED JUL 01 1996



Mountain States Analytical

The Quality Solution

June 24, 1996

Mr. David Cox
On Site Technologies, Ltd.
612 E Murray Drive
Farmington, NM 87401

Reference:

Project: Waste Water Samples
MSAI Group: 12366

Dear Mr. Cox:

Enclosed are the analytical results for your project referenced above. The following samples are included in the report.

810 Stripper Influent 810 Stripper Effluent

All holding times were met for the tests performed on these samples.

If the report is acceptable, please approve the enclosed invoice and forward it for payment.

Thank you for selecting Mountain States Analytical, Inc. to serve as your analytical laboratory on this project. If you have any questions concerning these results, please feel free to contact me at any time.

We look forward to working with you on future projects.

With Regards,

A handwritten signature in black ink that reads "Rolf E. Larsen".

Rolf E. Larsen
Project Manager



Mountain States Analytical

The Quality Solution

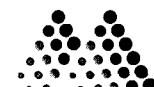
On Site Technologies, Ltd.
612 E Murray Drive
Farmington, NM 87401

Attn: Mr. David Cox
Project: Waste Water Samples

Sample ID: 810 Stripper Influent
Matrix: Waste Water

MSAI Sample: 48829
MSAI Group: 12366
Date Reported: 06/24/96
Discard Date: 07/24/96
Date Submitted: 06/11/96
Date Sampled: 06/06/96
Collected by: KS
Purchase Order: 4138
Project No.:

Test Analysis	Results as Received	Units	Limit of Quantitation
0259B Mercury by CVAA, w/ww, SW-846 Method: SW-846 7470	ND	mg/l	0.0005
0392I Flame/ICP Prep for Metals, Waters Method: SW-846 3005A	Complete		
0392M Mercury Prep CVAA, Waters Method: SW-846 7470	Complete		
7245 Arsenic by ICP Method: SW-846 6010A	ND	mg/l	0.10
7246 Barium by ICP, w/ww Method: SW-846 6010A	0.04	mg/l	0.02
7249 Cadmium by ICP, w/ww, SW-846 Method: SW-846 6010A	ND	mg/l	0.02
7251 Chromium by ICP Method: SW-846 6010A	0.02	mg/l	0.02
7255 Lead by ICP Method: SW-846 6010A	ND	mg/l	0.15
7264 Selenium by ICP Method: SW-846 6010A	ND	mg/l	0.30
7266 Silver by ICP Method: SW-846 6010A	ND	mg/l	0.02
6719 Polycyclic Aromatic Hydrocarbons Method: SW-846 8270A Acenaphthene	ND	ug/l	10



Mountain States Analytical

The Quality Solution

On Site Technologies, Ltd.

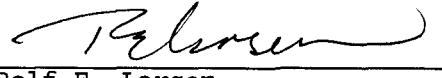
Page 2

MSAI Sample: 48829
MSAI Group: 12366

Sample ID: 810 Stripper Influent

Test	Analysis	Results as Received	Units	Limit of Quantitation
6719	Polycyclic Aromatic Hydrocarbons Method: SW-846 8270A			
	Acenaphthylene	ND	ug/l	10
	Anthracene	ND	ug/l	10
	Benz(a)anthracene	ND	ug/l	10
	Benzo(b)fluoranthene	ND	ug/l	10
	Benzo(k)fluoranthene	ND	ug/l	10
	Benzo(ghi)perylene	ND	ug/l	10
	Benzo(a)pyrene	ND	ug/l	10
	Chrysene	ND	ug/l	10
	Dibenz(a,h)anthracene	ND	ug/l	10
	Fluoranthene	ND	ug/l	10
	Fluorene	ND	ug/l	10
	Naphthalene	70	ug/l	10
	Phenanthrene	ND	ug/l	10
	Pyrene	ND	ug/l	10
	Indeno(1,2,3-cd)pyrene	ND	ug/l	10
	2-Methylnaphthalene	34	ug/l	10
3000	SVOA Extraction, Water Method: SW-846 3510/3520	complete		

ND - Not detected at the limit of quantitation

Respectfully Submitted,
Reviewed and Approved by:


 Rolf E. Larsen
 Project Manager



Mountain States Analytical

The Quality Solution

On Site Technologies, Ltd.
612 E Murray Drive
Farmington, NM 87401

Attn: Mr. David Cox
Project: Waste Water Samples

Sample ID: 810 Stripper Effluent
Matrix: Waste Water

MSAI Sample: 48831
MSAI Group: 12366
Date Reported: 06/24/96
Discard Date: 07/24/96
Date Submitted: 06/11/96
Date Sampled: 06/06/96
Collected by: DC
Purchase Order: 4138
Project No.:

Test Analysis	Results as Received	Units	Limit of Quantitation
0259B Mercury by CVAA, w/ww, SW-846 Method: SW-846 7470	ND	mg/l	0.0005
0392I Flame/ICP Prep for Metals, Waters Method: SW-846 3005A	Complete		
0392M Mercury Prep CVAA, Waters Method: SW-846 7470	Complete		
7245 Arsenic by ICP Method: SW-846 6010A	ND	mg/l	0.10
7246 Barium by ICP, w/ww Method: SW-846 6010A	0.12	mg/l	0.02
7249 Cadmium by ICP, w/ww, SW-846 Method: SW-846 6010A	ND	mg/l	0.02
7251 Chromium by ICP Method: SW-846 6010A	0.03	mg/l	0.02
7255 Lead by ICP Method: SW-846 6010A	ND	mg/l	0.15
7264 Selenium by ICP Method: SW-846 6010A	ND	mg/l	0.30
7266 Silver by ICP Method: SW-846 6010A	ND	mg/l	0.02
6719 Polycyclic Aromatic Hydrocarbons Method: SW-846 8270A Acenaphthene	ND	ug/l	10



Page 2

On Site Technologies, Ltd.

MSAI Sample: 48831
MSAI Group: 12366

Sample ID: 810 Stripper Effluent

Test	Analysis	Results as Received	Units	Limit of Quantitation
6719	Polycyclic Aromatic Hydrocarbons Method: SW-846 8270A			
	Acenaphthylene	ND	ug/l	10
	Anthracene	ND	ug/l	10
	Benz(a)anthracene	ND	ug/l	10
	Benzo(b)fluoranthene	ND	ug/l	10
	Benzo(k)fluoranthene	ND	ug/l	10
	Benzo(ghi)perylene	ND	ug/l	10
	Benzo(a)pyrene	ND	ug/l	10
	Chrysene	ND	ug/l	10
	Dibenz(a,h)anthracene	ND	ug/l	10
	Fluoranthene	ND	ug/l	10
	Fluorene	ND	ug/l	10
	Naphthalene	ND	ug/l	10
	Phenanthrene	ND	ug/l	10
	Pyrene	ND	ug/l	10
	Indeno(1,2,3-cd)pyrene	ND	ug/l	10
	2-Methylnaphthalene	ND	ug/l	10
3000	SVOA Extraction, Water Method: SW-846 3510/3520	complete		

ND - Not detected at the limit of quantitation

Respectfully Submitted,
Reviewed and Approved by:

 Rolf E. Larsen
 Project Manager



CHAIN OF CUSTODY RECORD

657 W. Maple • P.O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Date: 6/6/96 Page 1 of 3

Purchase Order No.: <u>B 2921</u> Job No.			Name <u>Terry Griffith</u> Title																																																																																																																																						
Name <u>Biotech Remediation Inc</u>			Company <u>Biotech Remediation Inc</u>																																																																																																																																						
Company <u>210 E. 2nd St. Suite 400</u> Dept.			Mailing Address																																																																																																																																						
Address <u>City, State, Zip</u>			City, State, Zip <u>Farmington NM 87401</u>																																																																																																																																						
Sampling Location: <u>626 Red Sosis</u> <u>Blown off end room</u>			Telephone No. <u>874-3111</u> Telefax No.																																																																																																																																						
ANALYSIS REQUESTED																																																																																																																																									
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Distribution: White - On Site Yellow - LAB Pink - Sampler Goldernrod - Client

(Client Signature Must Accompany Request)

ON SITE

TECHNOLOGIES, LTD.

657 W. Maple • P.O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

CHAIN OF CUSTODY RECORD

Date: 6/6/96

Page 2 of 3

Purchase Order No.: <u>B 2921</u>		Job No.	Name <u>Terry Griffis</u>	Phone <u>505-424-1661</u>	Title
Name <u>Terry Griffis</u>		Company <u>Biotech Remediations</u>	Company <u>Sonicare</u>	Title	
Company <u>Biotech Remediations</u>		Dept.	Mailing Address		
Address <u>710 E 2nd St. Suite 400</u>		City, State, Zip	City, State, Zip		
City, State, Zip <u>Farmington, NM 87401</u>		Telephone No.	Telephone No.		
Sampling Location: <u>626 Red Soss</u>		ANALYSIS REQUESTED			
Sampler: <u>Ken Schles</u>					
INVOICE TO	SAMPLE IDENTIFICATION	SAMPLE			LAB ID
		DATE	TIME	MATRIX	
Min - 19	6/4/96	3:30	H ₂ O	H ₃ Cl ₄	✓
Min - 20	6/3/96	11:30	✓	✓	✓
Min - 21	✓	2:25	✓	✓	✓
Min - 22	✓	2:50	✓	✓	✓
Star, open Toilet	6/4/96	4:00	✓	✓	✓
Star, open Outlet	✓	4:15	✓	✓	✓
LST Litter	✓	10:10	✓	✓	✓
Relinquished by: <u>John H. Schles</u>		Date/Time <u>6/6/96 1:16</u>	Received by: <u>JH</u>	Date/Time <u>6/6/96 1:22</u>	
Relinquished by:		Date/Time	Received by:	Date/Time	
Relinquished by:		Date/Time	Received by:	Date/Time	
Method of Shipment:		Rush	24-48 Hours	10 Working Days	Special Instructions:
Authorized by: <u>John H. Schles</u>		Date <u>6/6/96</u>	(Client Signature Must Accompany Request)		
Distribution: White - On Site		Yellow - LAB	Pink - Sampler	Goldernrod - Client	



OFF: (505) 325-5667

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: *18-Nov-96*
COC No.: *6015*
Sample No. *12849*
Job No. *B-3208*

Project Name: *Thriftway Refinery*
Project Location: *Refinery Air Stripper Inlet*
Sampled by: DA Date: *13-Nov-96* Time: *9:15*
Analyzed by: DC Date: *15-Nov-96*
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Methyl-t-Butyl Ether	50.3	ug/L	0.2	ug/L
Benzene	3508.1	ug/L	0.2	ug/L
Toluene	2206.4	ug/L	0.2	ug/L
Ethylbenzene	676.2	ug/L	0.2	ug/L
m,p-Xylene	2852.0	ug/L	0.2	ug/L
o-Xylene	768.9	ug/L	0.2	ug/L
	TOTAL	10061.9	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *[Signature]*
Date: *11/19/96*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: 18-Nov-96
COC No.: 6015
Sample No. 12850
Job No. B-3208

Project Name: *Thriftway Refinery*
Project Location: *Refinery Air Stripper Effluent*
Sampled by: DA Date: 13-Nov-96 Time: 9:17
Analyzed by: DC Date: 15-Nov-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Methyl-t-Butyl Ether	1.4	ug/L	0.2	ug/L
Benzene	88.5	ug/L	0.2	ug/L
Toluene	64.4	ug/L	0.2	ug/L
Ethylbenzene	21.3	ug/L	0.2	ug/L
m,p-Xylene	93.1	ug/L	0.2	ug/L
o-Xylene	26.4	ug/L	0.2	ug/L
TOTAL		295.1	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Dag*
Date: *11/18/96*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Terry Griffin*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: 18-Nov-96
COC No.: 6015
Sample No. 12851
Job No. B-3208

Project Name: *Thriftway Refinery*
Project Location: *Travel Blank*
Sampled by: DA Date: 13-Nov-96 Time: NR
Analyzed by: DC Date: 18-Nov-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Methyl-t-Butyl Ether	0.5	ug/L	0.2	ug/L
Benzene	1.0	ug/L	0.2	ug/L
Toluene	<0.2	ug/L	0.2	ug/L
Ethylbenzene	<0.2	ug/L	0.2	ug/L
m,p-Xylene	<0.2	ug/L	0.2	ug/L
o-Xylene	<0.2	ug/L	0.2	ug/L
	TOTAL	1.5	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *DAG*
Date: *11/18/96*



OFF: (505) 325-5667

LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 15-Nov-96*Internal QC No.:* 0515-QC*Surrogate QC No.:* 0516-QC*Reference Standard QC No.:* 0417-QC**Method Blank**

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

<i>Parameter</i>	<i>Unit of Measure</i>	<i>True Value</i>	<i>Analyzed Value</i>	<i>% Diff</i>	<i>Limit</i>
Methyl-t-Butyl Ether	ppb	20.0	18.9	5	15%
Benzene	ppb	20.0	19.5	2	15%
Toluene	ppb	20.0	20.2	1	15%
Ethylbenzene	ppb	20.0	20.4	2	15%
m,p-Xylene	ppb	40.0	40.2	0	15%
o-Xylene	ppb	20.0	20.1	0	15%

Matrix Spike

<i>Parameter</i>	<i>1- Percent Recovered</i>	<i>2 - Percent Recovered</i>	<i>Limit</i>	<i>%RSD</i>	<i>Limit</i>
Methyl-t-Butyl Ether	84	78	(39-150)	5	20%
Benzene	118	110	(39-150)	5	20%
Toluene	120	112	(46-148)	5	20%
Ethylbenzene	122	113	(32-160)	5	20%
m,p-Xylene	118	110	(35-145)	5	20%
o-Xylene	115	107	(35-145)	5	20%

Surrogate Recoveries

<i>Laboratory Identification</i>	<i>S1 Percent Recovered</i>	<i>S2 Percent Recovered</i>	<i>Laboratory Identification</i>	<i>S1 Percent Recovered</i>	<i>S2 Percent Recovered</i>
Limit Percent Recovery	(70-130)		Limit Percent Recovery	(70-130)	
12849-6015	98				
12850-6015	91				

(12)

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 18-Nov-96*Internal QC No.:* 0515-QC*Surrogate QC No.:* 0516-QC*Reference Standard QC No.:* 0417-QC**Method Blank**

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

<i>Parameter</i>	<i>Unit of Measure</i>	<i>True Value</i>	<i>Analyzed Value</i>	<i>% Diff</i>	<i>Limit</i>
Methyl-t-Butyl Ether	ppb	20.0	18.0	10	15%
Benzene	ppb	20.0	19.3	4	15%
Toluene	ppb	20.0	19.8	1	15%
Ethylbenzene	ppb	20.0	20.1	0	15%
m,p-Xylene	ppb	40.0	39.7	1	15%
o-Xylene	ppb	20.0	19.9	0	15%

Matrix Spike

<i>Parameter</i>	<i>1- Percent Recovered</i>	<i>2 - Percent Recovered</i>	<i>Limit</i>	<i>%RSD</i>	<i>Limit</i>
Methyl-t-Butyl Ether	84	78	(39-150)	5	20%
Benzene	118	110	(39-150)	5	20%
Toluene	120	112	(46-148)	5	20%
Ethylbenzene	122	113	(32-160)	5	20%
m,p-Xylene	118	110	(35-145)	5	20%
o-Xylene	115	107	(35-145)	5	20%

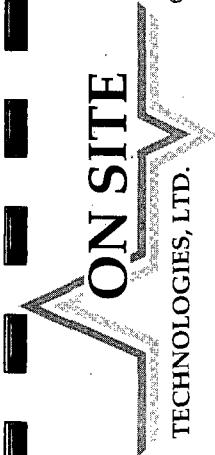
Surrogate Recoveries

<i>Laboratory Identification</i>	<i>S1 Percent Recovered</i>	<i>S2 Percent Recovered</i>	<i>Laboratory Identification</i>	<i>S1 Percent Recovered</i>	<i>S2 Percent Recovered</i>
Limit Percent Recovery	(70-130)		Limit Percent Recovery	(70-130)	
12851-6015	97				

(12)

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



CHAIN OF CUSTODY RECORD

5557 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

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ON S TECHNOLOGIES, LTD.

Date: 11/13/96 Page 1 of 1

Purchase Order No.: **B-3308** Job No.

540/E

TO
INVOICE
SEND

Sampling Location: Thirtieth Refinery Air Stripper

Purchase Order No.: B-3208	Job No.													
Name SAME		Dept.												
Company		Mailing Address 710 E 20th Suite 400												
Address		City, State, Zip FMN, NM 87401												
City, State, Zip		Telephone No. 632-3365	Teletax No. 632-7850											
ANALYSIS REQUESTED														
<p>REPORT TO RESULTS TO</p> <p>Number of Containers 2</p> <p>Sampler: D. Albin</p> <p>Sampling Location: Refinery Air Stripper</p>														
SAMPLE IDENTIFICATION		SAMPLE	DATE	TIME	MATRIX	PRES.	LAB ID		Special Instructions:					
Refinery Air Stripper Inlet		0915 Water	11/26/91	2	✓	✓	12646-6015		11/26/91 - 6015					
Refinery Air Stripper Effluent		0917 Water	11/26/91	2	✓	✓	12650-6015		11/26/91 - 6015					
Trace 1 Backs		0918 Water	11/26/91	2	✓	✓	12651-6015		11/26/91 - 6015					
Relinquished by: D. Albin		Date/Time 11/30/91 1404	Received by: D. Albin	Date/Time 11/17/91 1404										
Relinquished by:		Date/Time	Received by:	Date/Time										
Relinquished by:		Date/Time	Received by:	Date/Time										
Method of Shipment:		Rush	24-48 Hours	10 Working Days	Special Instructions:									
Authorized by:		Date	11/17/91 - 6015											
(Client Signature Must Accompany Request)														



OFF: (505) 325-5667

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Ross Kennemer*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: 19-Dec-96
COC No.: 6238
Sample No. 13165
Job No. B-3275

Project Name: *Thriftway #810*
Project Location: *Stripper Discharge*
Sampled by: RK Date: 14-Dec-96 Time: 10:10
Analyzed by: DC Date: 18-Dec-96
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Methyl-t-Butyl Ether	844.8	ug/L	0.2	ug/L
Benzene	427.5	ug/L	0.2	ug/L
Toluene	373.1	ug/L	0.2	ug/L
Ethylbenzene	47.5	ug/L	0.2	ug/L
m,p-Xylene	460.5	ug/L	0.2	ug/L
o-Xylene	211.0	ug/L	0.2	ug/L
TOTAL	2364.4	ug/L		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *DAG*
Date: 12/19/96

JAN - 3 1997

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OFF: (505) 325-5667



LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Ross Kennemer*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: *19-Dec-96*
COC No.: *6238*
Sample No. *13166*
Job No. *B-3275*

Project Name: *Thrifway #810*
Project Location: *Stripper Discharge*
Sampled by: *RK* Date: *15-Dec-96* Time: *13:20*
Analyzed by: *DC* Date: *18-Dec-96*
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Methyl-t-Butyl Ether</i>	866.8	ug/L	0.2	ug/L
<i>Benzene</i>	436.1	ug/L	0.2	ug/L
<i>Toluene</i>	385.7	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	49.9	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	473.2	ug/L	0.2	ug/L
<i>o-Xylene</i>	216.3	ug/L	0.2	ug/L
	TOTAL	2428.1		ug/L

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *DG*
Date: *12/19/96*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Ross Kennemer*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: *19-Dec-96*
COC No.: *6238*
Sample No. *13167*
Job No. *B-3275*

Project Name: *Thriftway #810*
Project Location: *Stripper Discharge*
Sampled by: RK Date: *16-Dec-96* Time: *15:00*
Analyzed by: DC Date: *18-Dec-96*
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Methyl-t-Butyl Ether	465.4	ug/L	0.2	ug/L
Benzene	150.4	ug/L	0.2	ug/L
Toluene	139.0	ug/L	0.2	ug/L
Ethylbenzene	13.7	ug/L	0.2	ug/L
m,p-Xylene	133.2	ug/L	0.2	ug/L
o-Xylene	88.6	ug/L	0.2	ug/L
	TOTAL	990.5	ug/L	

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *Dag*
Date: *12/19/96*

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OFF: (505) 325-5667

LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: *Ross Kennemer*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: *19-Dec-96*
COC No.: *6238*
Sample No. *13168*
Job No. *B-3275*

Project Name: *Thriftway #810*
Project Location: *Stripper Discharge*
Sampled by: *RK* Date: *17-Dec-96* Time: *9:15*
Analyzed by: *DC* Date: *18-Dec-96*
Sample Matrix: *Liquid*

Laboratory Analysis

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Methyl-t-Butyl Ether	331.8	ug/L	0.2	ug/L
Benzene	93.4	ug/L	0.2	ug/L
Toluene	90.3	ug/L	0.2	ug/L
Ethylbenzene	4.6	ug/L	0.2	ug/L
m,p-Xylene	52.5	ug/L	0.2	ug/L
o-Xylene	59.4	ug/L	0.2	ug/L
TOTAL	632.1	ug/L		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved by: *DAG*
Date: *12/19/96*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

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LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 18-Dec-96**Internal QC No.:** 0515-QC**Surrogate QC No.:** 0516-QC**Reference Standard QC No.:** 0417-QC**Method Blank**

Parameter	Result	Unit of Measure
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Parameter	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Methyl-t-Butyl Ether	ppb	20.0	17.4	13	15%
Benzene	ppb	20.0	18.9	5	15%
Toluene	ppb	20.0	19.6	2	15%
Ethylbenzene	ppb	20.0	19.8	1	15%
m,p-Xylene	ppb	40.0	38.8	3	15%
o-Xylene	ppb	20.0	19.6	2	15%

Matrix Spike

Parameter	1 - Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Methyl-t-Butyl Ether	85	93	(39-150)	6	20%
Benzene	92	97	(39-150)	4	20%
Toluene	97	101	(46-148)	2	20%
Ethylbenzene	100	102	(32-160)	2	20%
m,p-Xylene	97	100	(35-145)	2	20%
o-Xylene	98	100	(35-145)	2	20%

Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered	Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered
Limit Percent Recovery	(70-130)		Limit Percent Recovery	(70-130)	
13165-6238	95				
13166-6238	94				
13167-6238	93				
13168-6238	93				

(n)

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556
DJS

ANALYTICAL REPORT

Attn: *Ross Kennemer*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: *26-Mar-97*
COC No.: *6031*
Sample No.: *14028*
Job No.: *B97-240*

Project Name: *Thriftway 812*
Project Location: *812 - Inlet*
Sampled by: DA Date: *24-Mar-97* Time: *10:00*
Analyzed by: DC Date: *25-Mar-97*
Sample Matrix: *Liquid*

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Benzene	2110	ug/L	0.2	ug/L
Toluene	1010	ug/L	0.2	ug/L
Ethylbenzene	470	ug/L	0.2	ug/L
m,p-Xylene	948	ug/L	0.2	ug/L
o-Xylene	331	ug/L	0.2	ug/L
TOTAL	4868	ug/L		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved By: *DJS*
Date: *3/26/97*

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OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Ross Kennemer*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: *26-Mar-97*
COC No.: *6031*
Sample No.: *14029*
Job No.: *B97-240*

Project Name: *Thriftway 812*
Project Location: *812 - Outlet*
Sampled by: DA Date: *24-Mar-97* Time: *10:00*
Analyzed by: DC Date: *25-Mar-97*
Sample Matrix: *Liquid*

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Benzene	34.0	ug/L	0.2	ug/L
Toluene	18.9	ug/L	0.2	ug/L
Ethylbenzene	9.1	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	19.4	ug/L	0.2	ug/L
<i>o-Xylene</i>	7.6	ug/L	0.2	ug/L
<i>TOTAL</i>	89.0	ug/L		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved By: *DAG*
Date: *3/26/97*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 25-Mar-97**Internal QC No.:** 0527-STD**Surrogate QC No.:** 0528-STD**Reference Standard QC No.:** 0529/30-QC**Method Blank**

Parameter	Result	Unit of Measure
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Parameter	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Benzene	ppb	20.0	18.4	8	15%
Toluene	ppb	20.0	19.2	4	15%
Ethylbenzene	ppb	20.0	19.5	2	15%
m,p-Xylene	ppb	40.0	37.6	6	15%
o-Xylene	ppb	20.0	19.2	4	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Benzene	89	85	(39-150)	3	20%
Toluene	93	89	(46-148)	3	20%
Ethylbenzene	94	90	(32-160)	3	20%
m,p-Xylene	91	87	(35-145)	3	20%
o-Xylene	93	89	(35-145)	3	20%

Surrogate Recoveries

Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered	Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered
Limit Percent Recovered	(70-130)		Limit Percent Recovered	(70-130)	
14028-6031	96				
14029-6031	95				

S1: Fluorobenzene

DR
3/26/97

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



CHAIN OF CUSTODY RECORD

ON SITE

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LAB: (505) 325-5667 • FAX: (505) 325-6256

Date: 3/24/97

Page / of /
6031

Purchase Order No.: 897-2410		Job No.	Name Ross Kenneth	Title			
Name Company Address		Dept.	Company B.C. Tech Remediation	Mailing Address 7101 E 20th St Suite 400			
City, State, Zip		Telephone No.	City, State, Zip FMN, NM	Telephone No.			
ANALYSIS REQUESTED							
REPORT TO RESCULTS TO	Number of Containers						
		SAMPLE	DATE	TIME	MATRIX	PRES.	LAB ID
812 Inlet Inlet	3/24/97	10:00	H2O	Cool	2 ✓	1-6026-6031	
812 Outlet Outlet	"	"	"	"	2 ✓	1-6029-6031	
Sampling Location:	71.91 812	Sampler:	Dave Allin				
SAMPLE IDENTIFICATION		SAMPLE	DATE	TIME	MATRIX	PRES.	LAB ID
SEND INVOICE TO	RElinquished by:	Date/Time	3/24/97 10:00	Received by:	DJ	Date/Time	3/24/97 11:11
RElinquished by:	Date/Time	Received by:		Date/Time		Date/Time	
RElinquished by:	Date/Time	Received by:		Date/Time		Date/Time	
Method of Shipment:	Rush	24-48 Hours	10 Working Days	Special Instructions:			
Authorized by:	(Client Signature Must Accompany Request)	Date					
Distribution: White - On Site		Yellow - LAB	Pink - Sampler	Goldendrod - Client			

OFF: (505) 325-5667



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APR 04 1997

LAB: (505) 325-1556
7 1997

[Signature]

ANALYTICAL REPORT

Attn: *Ross Kennemer*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: *2-Apr-97*
COC No.: *6035*
Sample No.: *14073*
Job No.: *B97-256*

Project Name: *Thriftway 812*
Project Location: *Stripper Influent*
Sampled by: *RK* Date: *2-Apr-97* Time: *8:00*
Analyzed by: *DC* Date: *2-Apr-97*
Sample Matrix: *Liquid*

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Benzene	1436	ug/L	0.2	ug/L
Toluene	650	ug/L	0.2	ug/L
Ethylbenzene	361	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	830	ug/L	0.2	ug/L
<i>o-Xylene</i>	449	ug/L	0.2	ug/L
TOTAL	3725	ug/L		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved By: *[Signature]*
Date: *4/2/97*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



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LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Ross Kennemer*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: *2-Apr-97*
COC No.: *6035*
Sample No.: *14074*
Job No.: *B97-256*

Project Name: *Thriftway 812*
Project Location: *Stripper Effluent*
Sampled by: RK Date: *2-Apr-97* Time: *8:00*
Analyzed by: DC Date: *2-Apr-97*
Sample Matrix: *Liquid*

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
<i>Benzene</i>	54.4	ug/L	0.2	ug/L
<i>Toluene</i>	26.1	ug/L	0.2	ug/L
<i>Ethylbenzene</i>	14.3	ug/L	0.2	ug/L
<i>m,p-Xylene</i>	34.6	ug/L	0.2	ug/L
<i>o-Xylene</i>	13.4	ug/L	0.2	ug/L
<i>TOTAL</i>	142.8	ug/L		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved By: *DG*
Date: *4/2/97*

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LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 2-Apr-97

Internal QC No.: 0527-STD

Surrogate QC No.: 0528-STD

Reference Standard QC No.: 0529/30-QC

Method Blank

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>
<i>Average Amount of All Analytes In Blank</i>	<0.2	ppb

Calibration Check

Calibration Check					
Parameter	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Benzene	ppb	20.0	18.1	9	15%
Toluene	ppb	20.0	19.2	4	15%
Ethylbenzene	ppb	20.0	19.7	2	15%
<i>m,p-Xylene</i>	ppb	40.0	37.9	5	15%
<i>o-Xylene</i>	ppb	20.0	19.5	3	15%

Matrix Spike

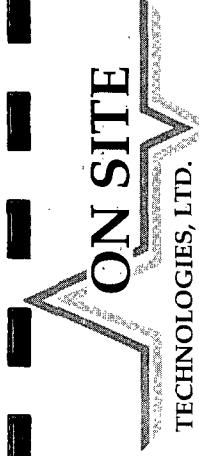
<i>Parameter</i>	<i>1- Percent Recovered</i>	<i>2 - Percent Recovered</i>	<i>Limit</i>	<i>%RSD</i>	<i>Limit</i>
Benzene	68	82	(39-150)	2	20%
Toluene	81	88	(46-148)	2	20%
Ethylbenzene	86	91	(32-160)	2	20%
<i>m,p-Xylene</i>	82	87	(35-145)	2	20%
<i>o-Xylene</i>	45	52	(35-145)	3	20%

Surrogate Recoveries

S1: Fluorobenzene

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



CHAIN OF CUSTODY RECORD

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Order No.: B7-1234 Job No.

Name _____
Company _____
Address _____

City, State

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P.O. Box 2606 Farmington, NM 87499 (505) 325-5667

APR 8 1997

RAB

Facsimile Cover Sheet

Attn: ROSS / TERRY
Company: BIO TECH REMEDIATION
Phone: _____
Fax: 632-9850

From: DAVID COX
Company: On Site Technologies, LTD.
Laboratory Phone: (505) 325-2432
Laboratory Fax: (505) 325-6256

Date: 4/8/97
Pages Including Cover Sheet: 5

Comments:

Thank you for your patience :)

Dak



OFF: (505) 325-5667

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *Terry Griffin*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: *7-Apr-97*
COC No.: *6036*
Sample No.: *14090*
Job No.: *B97-256*

Project Name: *Thriftway Refinery 626 CR 5500 Bloomfield, NM*
Project Location: *Air Stripper Effluent*
Sampled by: *KS* Date: *3-Apr-97* Time: *11:08*
Analyzed by: *DC* Date: *4-Apr-97*
Sample Matrix: *Liquid*

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Benzene	0.3	ug/L	0.2	ug/L
Toluene	0.2	ug/L	0.2	ug/L
Ethylbenzene	<0.2	ug/L	0.2	ug/L
m,p-Xylene	0.9	ug/L	0.2	ug/L
o-Xylene	<0.2	ug/L	0.2	ug/L
TOTAL	1.4	ug/L		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved By: *TG*
Date: *4/7/97*

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

QFR: (505) 325-5667



LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 4-Apr-97

Internal QC No.: 0527-STD
Surrogate QC No.: 0528-STD
Reference Standard QC No.: 0529/30-QC

Method Blank

Parameter	Result	Unit of Measure
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Parameter	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Benzene	ppb	20.0	20.5	2	15%
Toluene	ppb	20.0	21.2	6	15%
Ethylbenzene	ppb	20.0	21.8	9	15%
m,p-Xylene	ppb	40.0	41.3	3	15%
o-Xylene	ppb	20.0	21.3	7	15%

Matrix Spike

Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	%RSD	Limit
Benzene	91	88	(39-150)	2	20%
Toluene	96	91	(46-148)	2	20%
Ethylbenzene	92	89	(32-160)	2	20%
<i>m,p</i> -Xylene	87	82	(35-145)	2	20%
<i>o</i> -Xylene	78	77	(35-145)	1	20%

Surrogate Recoveries

S1: Fluorobenzene

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667

LAB: (505) 325-1556

**ANALYTICAL REPORT**

Attn: *Terry Griffin*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: *7-Apr-97*
COC No.: *6039*
Sample No.: *14115*
Job No.: *B97-265*

Project Name: *Thriftway 812*
Project Location: *Effluent*
Sampled by: DA Date: *4-Apr-97* Time: *8:52*
Analyzed by: DC Date: *4-Apr-97*
Sample Matrix: *Liquid*

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Benzene	<0.2	ug/L	0.2	ug/L
Toluene	0.3	ug/L	0.2	ug/L
Ethylbenzene	<0.2	ug/L	0.2	ug/L
m,p-Xylene	0.7	ug/L	0.2	ug/L
o-Xylene	<0.2	ug/L	0.2	ug/L
TOTAL	1.0	ug/L		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved By: *Dag*
Date: *4/7/97*

OFF: (305) 325-5667



LAB: (505) 325-1556

QUALITY ASSURANCE REPORT
for EPA Method 8020

Date Analyzed: 4-Apr-97

Internal QC No.: 0527-STD

Surrogate QC No.: 0528-STD

Reference Standard QC No.: 0529/30-QC

Method Blank

Parameter	Result	Unit of Measure
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

<i>Parameter</i>	<i>Unit of Measure</i>	<i>True Value</i>	<i>Analyzed Value</i>	<i>% Diff</i>	<i>Limit</i>
Benzene	ppb	20.0	20.5	2	15%
Toluene	ppb	20.0	21.2	6	15%
Ethylbenzene	ppb	20.0	21.8	9	15%
<i>m,p-Xylene</i>	ppb	40.0	41.3	3	15%
<i>o-Xylene</i>	ppb	20.0	21.3	7	15%

Matrix Spike

<u>Parameter</u>	<u>1- Percent Recovered</u>	<u>2 - Percent Recovered</u>	<u>Limit</u>	<u>%RSD</u>	<u>Limit</u>
Benzene	91	88	(39-150)	2	20%
Toluene	96	91	(46-148)	2	20%
Ethylbenzene	92	89	(32-160)	2	20%
<i>m,p-Xylene</i>	87	82	(35-145)	2	20%
<i>o-Xylene</i>	78	77	(35-145)	1	20%

Surrogate Recoveries

S1: Fluorobenzene

OFF: (505) 325-5667



APR 10 1997
66

LAB: (505)-325-1556

ANALYTICAL REPORT

Attn: *Terry Griffin*
Company: *BioTech Remediation*
Address: *710 E 20th Street, Suite 400*
City, State: *Farmington, NM 87401*

Date: *7-Apr-97*
COC No.: *6036*
Sample No.: *14090*
Job No.: *B97-256*

Project Name: *Thriftway Refinery 626 CR 5500 Bloomfield, NM*
Project Location: *Air Stripper Effluent*
Sampled by: KS Date: *3-Apr-97* Time: *11:08*
Analyzed by: DC Date: *4-Apr-97*
Sample Matrix: *Liquid*

Parameter	Result	Unit of Measure	Detection Limit	Unit of Measure
Benzene	0.3	ug/L	0.2	ug/L
Toluene	0.2	ug/L	0.2	ug/L
Ethylbenzene	<0.2	ug/L	0.2	ug/L
m,p-Xylene	0.9	ug/L	0.2	ug/L
o-Xylene	<0.2	ug/L	0.2	ug/L
TOTAL	1.4	ug/L		

Method - SW-846 EPA Method 8020 Aromatic Volatile Organics by Gas Chromatography

Approved By: *DAG*
Date: *4/7/97*

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -



OFF: (505) 325-5667

LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 4-Apr-97

Internal QC No.: 0527-STD

Surrogate QC No.: 0528-STD

Reference Standard QC No.: 0529/30-QC

Method Blank

<i>Parameter</i>	<i>Result</i>	<i>Unit of Measure</i>
<i>Average Amount of All Analytes In Blank</i>	<0.2	ppb

Calibration Check

Calibration Check					
Parameter	Unit of Measure	True Value	Analyzed Value	% Diff	Limit
Benzene	ppb	20.0	20.5	2	15%
Toluene	ppb	20.0	21.2	6	15%
Ethylbenzene	ppb	20.0	21.8	9	15%
<i>m,p-Xylene</i>	ppb	40.0	41.3	3	15%
<i>o-Xylene</i>	ppb	20.0	21.3	7	15%

Matrix Spike

<i>Parameter</i>	<i>1- Percent Recovered</i>	<i>2 - Percent Recovered</i>	<i>Limit</i>	<i>%RSD</i>	<i>Limit</i>
Benzene	91	88	(39-150)	2	20%
Toluene	96	91	(46-148)	2	20%
Ethylbenzene	92	89	(32-160)	2	20%
<i>m,p-Xylene</i>	87	82	(35-145)	2	20%
<i>o-Xylene</i>	78	77	(35-145)	1	20%

Surrogate Recoveries

S1: Fluorobenzene

(m)
4/3/07

ON SITE

CHAIN OF CUSTODY RECORD

6036

TECHNOLOGIES, LTD.

657 W. Maple • P.O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Date: 4/3/97

Page 1 of 57

Purchase Order No.: <u>397-256</u>		Job No.															
SEND INVOICE TO Name <u>Same</u> Company _____ Address _____ City, State, Zip _____		RESULTS TO Name <u>Terry Griffith</u> Company <u>BioTech Remediations, Inc.</u> Mailing Address <u>710 E. 20th Street, Suite 400</u> City, State, Zip <u>Farmington, NM 87501</u> Telephone No. <u>505-632-3365</u> Telefax No. <u>505-632-9837</u>															
ANALYSIS REQUESTED																	
Sampling Location <u>The Flaxy Refinery</u> <u>626 RD. 5500</u> <u>Bloomfield, NM</u>																	
Sampler: <u>Ken Sinks</u> <u>Ken Sinks</u>																	
SAMPLE IDENTIFICATION																	
				SAMPLE	DATE	TIME	MATRIX	PRES.									
Resample mw-01				1055	1130	1155	1000	1020	1035	1108	1120	1121	1122	1123	1124	1125	1126
2nd Resample mw-06				mw	mw	mw	mw	mw	mw	mw	mw	mw	mw	mw	mw	mw	
Resample mw-13				cool	cool	cool	cool	cool	cool	cool	cool	cool	cool	cool	cool	cool	cool
Resample mw-21				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2nd Resample mw-22				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Air Stripper Effluent				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
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APPENDIX B

THRIFTWAY REFINERY
PRODUCT RECOVERY DATA

MONITOR WELL	DATE	OIL LEVEL FEET	WATER LEVEL FEET	PRODUCT THICKNESS FEET	PRODUCT REMOVED GALLONS	TIME	SAMPLED BY
FILE:1810\BAILTBL.WK4							
MW-01	12/27/96	15.62	15.62	0.00	0.0000		D. ALBIN
MW-01	01/10/97	15.61	15.61	0.00	0.0000		D. ALBIN
MW-01	01/31/97		NOT MEASURED				D. ALBIN
MW-01	02/21/97		NOT MEASURED				D. ALBIN
MW-02	12/27/96	12.23	13.24	1.01	0.1398		D. ALBIN
MW-02	01/10/97	12.33	12.54	0.21	0.0132		D. ALBIN
MW-02	01/31/97	12.27	12.53	0.26	0.0185		D. ALBIN
MW-02	02/21/97	12.20	12.51	0.31	0.0185		D. ALBIN
MW-03	12/27/96	4.60	4.72	0.12	0.0111		D. ALBIN
MW-03	01/31/97	3.85	3.85	0.00	0.0000		D. ALBIN
MW-03	02/21/97	3.63	3.63	0.00	0.0000		D. ALBIN
MW-07	12/27/96	7.62	7.62	0.00	0.0000		D. ALBIN
MW-07	01/10/97	7.36	7.36	0.00	0.0000		D. ALBIN
MW-07	01/31/97	6.92	6.92	0.00	0.0000		D. ALBIN
MW-07	02/21/97	6.64	6.64	0.00	0.0000		D. ALBIN
MW-12	12/27/96	14.17	15.60	1.43	0.2982		D. ALBIN
MW-12	01/10/97	14.17	15.62	1.45	0.2929		D. ALBIN
MW-12	01/31/97	14.19	15.55	1.36	0.2876		D. ALBIN
MW-12	02/21/97	14.16	15.47	1.31	0.2665		D. ALBIN
MW-14	12/27/96	12.97	12.97	0.00	0.0000		D. ALBIN
MW-14	01/10/97	12.01	12.76	0.75	0.2929		D. ALBIN
MW-14	01/31/97	12.75	13.64	0.89	0.1266		D. ALBIN
MW-14	02/21/97	12.74	13.59	0.85	0.1214		D. ALBIN
MW-17	12/27/96	5.21	6.30	1.09	0.4700		D. ALBIN
MW-17	01/10/97	5.86	6.23	0.37	0.1609		D. ALBIN
MW-17	01/31/97	5.73	5.75	0.02	0.0066		D. ALBIN
MW-17	02/21/97	5.67	5.72	0.05	0.0053		D. ALBIN
MW-29	12/27/96	14.65	14.78	0.13	0.0149		D. ALBIN
MW-29	01/10/97	14.64	14.74	0.10	0.0132		D. ALBIN
MW-29	01/31/97	14.66	14.74	0.08	0.0079		D. ALBIN
MW-29	02/21/97	14.63	14.71	0.08	0.0264		D. ALBIN
RW-24	12/27/96	13.94	15.34	1.40	0.2427		D. ALBIN
RW-24	01/10/97	13.94	15.31	1.37	0.2427		D. ALBIN
RW-24	01/31/97	13.94	15.25	1.31	0.2348		D. ALBIN
RW-24	02/21/97	13.92	15.14	1.22	0.1741		D. ALBIN
RW-25	12/27/96	14.89	15.02	0.13	0.0101		D. ALBIN
RW-25	01/10/97	14.86	14.95	0.09	0.0066		D. ALBIN
RW-25	01/31/97	14.87	14.98	0.11	0.0132		D. ALBIN
RW-25	02/21/97	14.82	14.94	0.12	0.0132		D. ALBIN
RW-26	12/27/96	12.97	13.70	0.73	0.7000		D. ALBIN
RW-26	01/10/97	12.01	12.76	0.75	0.3219		D. ALBIN
RW-26	01/31/97	12.02	12.71	0.69	0.2850		D. ALBIN
RW-26	02/21/97	12.00	12.62	0.62	0.2164		D. ALBIN
T-17-1	12/27/96	DRY	DRY	0.00	0.0000		D. ALBIN
T-17-1	01/10/97	18.07	18.07	0.00	0.0000		D. ALBIN
T-17-1	01/31/97		NOT MEASURED				D. ALBIN
T-17-1	02/21/97		NOT MEASURED				D. ALBIN
T-17-3	12/30/96	17.16	17.16	0.00	0.0000		D. ALBIN
T-17-3	01/10/97	17.16	17.16	0.00	0.0000		D. ALBIN
T-17-3	01/31/97		NOT MEASURED				D. ALBIN
T-17-3	02/21/97		NOT MEASURED				D. ALBIN

total 5.0531

FREE PRODUCT BAILING LOG THRIFTWAY REFINERY

DATE: 2-21-97

TECHNICIAN: _____

F:\FILE\810\BAILOG.WK4

MONITOR WELL #	AO LEVEL	OW LEVEL	DELTA FEET	PRODUCT GALLONS	COMMENTS
MW-02	12.20	12.57	.37	.0158	60 .0158
MW-03	3.63	3.63	0	0	-0-
MW-07	6.64	6.64	0	0	-0-
MW-12	14.16	15.47	1.31	.2665	1010 .2665
MW-14	12.74	13.59	.85	.1214	460 .1214
MW-17	5.67	5.72	.05	.0053	20 20 .0053
MW-29	14.63	14.71	.80	.0264	100 .0264
RW-24	13.92	15.14	1.22	.1741	660 .1741
RW-25	14.82	14.94	.12	.0132	50 .0132
RW-26	12.00	12.62	.62	.2164	820 .2164
STR UST					

* Should not have free product on the water surface.

FREE PRODUCT BAILING LOG THRIFTWAY REFINERY

DATE: 2-28-97

Technician: J. A. M. bin

F:\FILE\810\BAILOG.WK4

MONITOR WELL #	AO LEVEL	OW LEVEL	DELTA FEET	PRODUCT GALLONS	COMMENTS
MW-02	12.18	12.39	0.21		30ml
MW-03	3.53	3.53	0		
MW-07	6.56	6.56	0		
MW-12	14.13	15.40	1.27		1000
MW-14	10.71	13.52	0.81		400
MW-17	5.65	5.69	0.04		20ml
MW-29	14.60	14.60	0.00		5ml
RW-24	13.90	15.11	1.21		620
RW-25	14.78	14.97	0.19		50ml
RW-26	11.98	12.57	0.78		720
STR UST					

* Should not have free product on the water surface.

000264

THRIFTWAY REFINERY
PRODUCT RECOVERY DATA

WELL	LEVEL FEET	LEVEL FEET	THICKNESS FEET	REMOVED GALLONS	ML	BY	
FILE:\810\BAILTBL.WK4							
THRIFTWAY REFINERY PRODUCT RECOVERY DATA							
WELL	LEVEL FEET	LEVEL FEET	THICKNESS FEET	REMOVED GALLONS	ML	BY	
FILE:\810\BAILTBL.WK4							
MW-01	12/27/96	15.62	15.62	0.00	0.0000	D. ALBIN	
MW-01	01/10/97	15.61	15.61	0.00	0.0000	D. ALBIN	
MW-01	01/31/97		NOT MEASURED			D. ALBIN	
MW-01	02/21/97		NOT MEASURED			D. ALBIN	
MW-01	02/28/97		NOT MEASURED			D. ALBIN	
MW-02	12/27/96	12.23	13.24	1.01	0.1398	D. ALBIN	
MW-02	01/10/97	12.33	12.54	0.21	0.0132	D. ALBIN	
MW-02	01/31/97	12.27	12.53	0.26	0.0185	D. ALBIN	
MW-02	02/21/97	12.20	12.51	0.31	0.0185	D. ALBIN	
MW-02	02/28/97	12.18	12.39	0.21	0.0079	30.0	D. ALBIN
MW-03	12/27/96	4.60	4.72	0.12	0.0111	D. ALBIN	
MW-03	01/31/97	3.85	3.85	0.00	0.0000	D. ALBIN	
MW-03	02/21/97	3.63	3.63	0.00	0.0000	D. ALBIN	
MW-03	02/21/97	3.63	3.63	0.00	0.0000	D. ALBIN	
MW-03	02/28/97	3.53	3.53	0.00	0.0000	D. ALBIN	
MW-07	12/27/96	7.62	7.62	0.00	0.0000	D. ALBIN	
MW-07	01/10/97	7.36	7.36	0.00	0.0000	D. ALBIN	
MW-07	01/31/97	6.92	6.92	0.00	0.0000	D. ALBIN	
MW-07	02/21/97	6.64	6.64	0.00	0.0000	D. ALBIN	
MW-07	02/28/97	6.56	6.56	0.00	0.0000	D. ALBIN	
MW-12	12/27/96	14.17	15.60	1.43	0.2982	D. ALBIN	
MW-12	01/10/97	14.17	15.62	1.45	0.2929	D. ALBIN	
MW-12	01/31/97	14.19	15.55	1.36	0.2876	D. ALBIN	
MW-12	02/21/97	14.16	15.47	1.31	0.2665	D. ALBIN	
MW-12	02/28/97	14.13	15.40	1.27	0.2640	1000.0	D. ALBIN
MW-14	12/27/96	12.97	12.97	0.00	0.0000	D. ALBIN	
MW-14	01/10/97	12.01	12.76	0.75	0.2929	D. ALBIN	
MW-14	01/31/97	12.75	13.64	0.89	0.1266	D. ALBIN	
MW-14	02/21/97	12.74	13.59	0.85	0.1214	D. ALBIN	
MW-14	02/28/97	12.71	13.52	0.81	0.1056	400.0	D. ALBIN

THRIFTWAY REFINERY
PRODUCT RECOVERY DATA

WELL		LEVEL FEET	LEVEL FEET	THICKNESS FEET	REMOVED GALLONS	ML	BY
FILE:\810\BAILTBL.WK4							
MW-17	12/27/96	5.21	6.30	1.09	0.4700		D. ALBIN
MW-17	01/10/97	5.86	6.23	0.37	0.1609		D. ALBIN
MW-17	01/31/97	5.73	5.75	0.02	0.0066		D. ALBIN
MW-17	02/21/97	5.67	5.72	0.05	0.0053		D. ALBIN
MW-17	02/28/97	5.65	5.69	0.04	0.0053	20.0	D. ALBIN
MW-29	12/27/96	14.65	14.78	0.13	0.0149		D. ALBIN
MW-29	01/10/97	14.64	14.74	0.10	0.0132		D. ALBIN
MW-29	01/31/97	14.66	14.74	0.08	0.0079		D. ALBIN
MW-29	02/21/97	14.63	14.71	0.08	0.0264		D. ALBIN
MW-29	02/28/97	14.60	14.68	0.08	0.0132	50.0	D. ALBIN
RW-24	12/27/96	13.94	15.34	1.40	0.2427		D. ALBIN
RW-24	01/10/97	13.94	15.31	1.37	0.2427		D. ALBIN
RW-24	01/31/97	13.94	15.25	1.31	0.2348		D. ALBIN
RW-24	02/21/97	13.92	15.14	1.22	0.1741		D. ALBIN
RW-24	02/28/97	13.90	15.11	1.21	0.1637	620.0	D. ALBIN
RW-25	12/27/96	14.89	15.02	0.13	0.0101		D. ALBIN
RW-25	01/10/97	14.86	14.95	0.09	0.0066		D. ALBIN
RW-25	01/31/97	14.87	14.98	0.11	0.0132		D. ALBIN
RW-25	02/21/97	14.82	14.94	0.12	0.0132		D. ALBIN
RW-25	02/28/97	14.78	14.97	0.19	0.0132	50.0	D. ALBIN
RW-26	12/27/96	12.97	13.70	0.73	0.7000		D. ALBIN
RW-26	01/10/97	12.01	12.76	0.75	0.3219		D. ALBIN
RW-26	01/31/97	12.02	12.71	0.69	0.2850		D. ALBIN
RW-26	02/21/97	12.00	12.62	0.62	0.2164		D. ALBIN
RW-26	02/28/97	11.98	12.57	0.59	0.1901	720.0	D. ALBIN
T-17-1	12/27/96	DRY	DRY	0.00	0.0000		D. ALBIN
T-17-1	01/10/97	18.07	18.07	0.00	0.0000		D. ALBIN
T-17-1	01/31/97	NOT MEASURED					D. ALBIN
T-17-1	02/21/97	NOT MEASURED					D. ALBIN
T-17-1	02/28/97	NOT MEASURED					D. ALBIN
T-17-3	12/30/96	17.16	17.16	0.00	0.0000		D. ALBIN
T-17-3	01/10/97	17.16	17.16	0.00	0.0000		D. ALBIN
T-17-3	01/31/97	NOT MEASURED					D. ALBIN
T-17-3	02/21/97	NOT MEASURED					D. ALBIN
T-17-3	02/28/97	NOT MEASURED					D. ALBIN

TABLE 4
THRIFTWAY REFINERY
PRODUCT RECOVERY DATA

MONITOR WELL	DATE	OIL LEVEL FEET	WATER LEVEL FEET	PRODUCT THICKNESS FEET	PRODUCT REMOVED GALLONS	TIME	SAMPLED BY
FILE:\810\QMRTABL4.WK4							
MW-01	12/27/96	15.62	15.62	0.00	0.0000		D. ALBIN
MW-01	01/10/97	15.61	15.61	0.00	0.0000		D. ALBIN
MW-01	01/31/97	NOT MEASURED					D. ALBIN
MW-02	12/27/96	12.23	13.24	1.01	0.1398		D. ALBIN
MW-02	01/10/97	12.33	12.54	0.21	0.0132		D. ALBIN
MW-02	01/31/97	12.27	12.53	0.26	0.0185		D. ALBIN
MW-03	12/27/96	4.60	4.72	0.12	0.0111		D. ALBIN
MW-03	01/31/97	3.85	3.85	0.00	0.0000		D. ALBIN
MW-07	12/27/96	7.62	7.62	0.00	0.0000		D. ALBIN
MW-07	01/10/97	7.36	7.36	0.00	0.0000		D. ALBIN
MW-07	01/31/97	6.92	6.92	0.00	0.0000		D. ALBIN
MW-12	12/27/96	14.17	15.60	1.43	0.2982		D. ALBIN
MW-12	01/10/97	14.17	15.62	1.45	0.2929		D. ALBIN
MW-12	01/31/97	14.19	15.55	1.36	0.2876		D. ALBIN
MW-14	12/27/96	12.97	12.97	0.00	0.0000		D. ALBIN
MW-14	01/10/97	12.01	12.76	0.75	0.2929		D. ALBIN
MW-14	01/31/97	12.75	13.64	0.89	0.1266		D. ALBIN
MW-17	12/27/96	5.21	6.30	1.09	0.4700		D. ALBIN
MW-17	01/10/97	5.86	6.23	0.37	0.1609		D. ALBIN
MW-17	01/31/97	5.73	5.75	0.02	0.0066		D. ALBIN
MW-29	12/27/96	14.65	14.78	0.13	0.0149		D. ALBIN
MW-29	01/10/97	14.64	14.74	0.10	0.0132		D. ALBIN
MW-29	01/31/97	14.66	14.74	0.08	0.0079		D. ALBIN
RW-24	12/27/96	13.94	15.34	1.40	0.2427		D. ALBIN
RW-24	01/10/97	13.94	15.31	1.37	0.2427		D. ALBIN
RW-24	01/31/97	13.94	15.25	1.31	0.2348		D. ALBIN
RW-25	12/27/96	14.89	15.02	0.13	0.0101		D. ALBIN
RW-25	01/10/97	14.86	14.95	0.09	0.0066		D. ALBIN
RW-25	01/31/97	14.87	14.98	0.11	0.0132		D. ALBIN
RW-26	12/27/96	12.97	13.70	0.73	0.7000		D. ALBIN
RW-26	01/10/97	12.01	12.76	0.75	0.3219		D. ALBIN
RW-26	01/31/97	12.02	12.71	0.69	0.2850		D. ALBIN
T-17-1	12/27/96	DRY	DRY	0.00	0.0000		D. ALBIN
T-17-1	01/10/97	18.07	18.07	0.00	0.0000		D. ALBIN
T-17-1	01/31/97	NOT MEASURED					D. ALBIN
T-17-3	12/30/96	17.16	17.16	0.00	0.0000		D. ALBIN
T-17-3	01/10/97	17.16	17.16	0.00	0.0000		D. ALBIN
T-17-1	01/31/97	NOT MEASURED					D. ALBIN

**FREE PRODUCT
BAILING LOG
THRIFTWAY REFINERY**

DATE: /-31-97

TECHNICIAN: Dakota

F:\FILE\810\BAILLOG.WK4

MONITOR WELL#	AO LEVEL	OW LEVEL	DELTA FEET	PRODUCT GALLONS	COMMENTS
MW-02	12.27	12.53	0.26		70 ml .0185
MW-03	3.85	3.85	0	0	
MW-07	6.92	6.92	0	0	
MW-12	5.73	5.75	0.02		25 ml
MW-14	12.75	13.64	0.89		480
MW-17	5.73	5.75	0.02		25 ml
MW-29	14.66	14.74	0.08		30 ml
RW-24	13.94	15.25	1.31		890
RW-25	14.87	14.98	0.11		50 ml
RW-26	12.02	12.71	0.69		870 + 210
STR UST					
MW 12	14.19	15.55			950 + 140 ml

* Should not have free product on the water surface.

File control Annual
monitoring report - the
include in report

FREE PRODUCT BAILING LOG

DATE: 12/27/96

LOCATION: Refinery

TECHNICIAN: D. Allin
F:\FILE\810BAILLOG.WK4

MONITOR WELL#	AO LEVEL	OW LEVEL	DELTA FEET	PRODUCT GALLONS	COMMENTS
MW-01 *	—	12.98'	-0 -	-0 -	
MW-02	12.23	13.24	1.01	.1398	5500 gal
MW-07	—	7.62	-0 -	-0 -	
MW-12	14.17	15.60	1.43	.2982	700 + 230
MW-14 *	—	15.59	-0 -	-0 -	
MW-17	5.90	6.36	0.46	.3325	2700 + 2400 gal?
MW-29	14.62	14.75	0.13	-0 -	not bailed
RW-24	13.93	15.13	1.20	.2797	8500 + 2100
RW-25	14.65	15.02	0.37	-0 -	Loss thru 1/2" in bailed
RW-26	12.95	13.14	0.69	.3404	4" Neels Creek 800 + 1000 gal
STR UST	—	not checked	-0 -	-0 -	3404
T-17-1	18.10	19.22	-0 -	-0 -	Bottom of hole
T-17-3	—	17.15	-0 -	-0 -	

* Should not have free product on the water surface.

DAM 11/21/97
JFS

BAILING LOG THRIFTWAY REFINERY

DATE: 12/30/96

TECHNICIAN: D. Albin

F:\FILE\1810\BAILOG.WK4

MONITOR WELL#	AO LEVEL	OW LEVEL	DELTA FEET	PRODUCT GALLONS	COMMENTS
MW-02	12.35	12.54	0.19	500 gal	
MW-07	7.54	7.54	-0-	no water	
MW-12	14.20	15.60	1.40	840 gal + 300 gal = 1140 gal	
MW-17	5.91	6.30	0.39	410 gal + 110 = 520 gal	
MW-29	14.65	14.78	0.13	25 gal	
RW-24	13.94	15.34	1.40	800 gal + 230 = 1030 gal	
RW-25	14.89	15.02	0.13	25 gal	
RW-26	12.97	13.70	0.73	630 gal + 100 = 1360 gal	
STRETCH					
T-17-1	10.5	18.07	-0-	Well Dry	
T-17-3*	12.16	17.16	-0-		

* Should not have free product on the water surface.

218

**THRIFTWAY REFINERY
DAILY MONITORING SHEET
FOR AIR STRIPPER FLOWS**

Government of
Bihar
Received

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810\LOGSHEET

This log sheet is part of the OCO Annual reporting.

Quarterly Summary
DAILY LOG
BAILING OF FREE PRODUCT

1996

Thriftway Refinery
 810 file
 RAW-Field
 DATA - initial
 10/11/96 into
 810\QMRATABL1.
 wk4

DATE:
7/12/96 &
10/10/96

LOCATION:

TECHNICIAN:

f:\files\baillog

MONITOR WELL #	ORS WATER LEVEL	100' TAPE PRODUCT LEVEL	DEPTH OF FREE PRODUCT	GALLONS OF FREE PRODUCT RECOVERED
10/19	MW-2 , 2000	TOTAL gal 2000	8/30	Rw-24 .1250
10/7	MW-7 .045-		8/16	Rw-24 ,1788
8/30	MW-7 .0625		7/26	Rw-24 ,2500
8/16	MW-7 .0501		10/7	Rw-25 .0053
7/26	MW-7 .0156		8/30	Rw-25 trace
7/2	MW-7 .0625 => 2052		8/16	Rw-25 ,0897
10/7	MW-12 .2876 .0145		7/26	Rw-25 .2500 => .2200
8/30	MW-12 ,1250			
7/16	MW-12 ,1266			
7/26	MW-12 .2500			
7/12	MW-12 ,5000 => 1.2892			
10/7	MW-17 .0092	.0092		
10/10	MW-17-1 .0039	.0039		
10/10	MW-17-3 .0040	.0040		
10/7	MW-29 .0132	.0132		
10/7	RW-24 .2955			

ADDITIONAL COMMENTS:

EQUIPMENT LIST:
 2 - 5 GALLON BUCKETS
 1 - 3" BAILER
 3 - 1.66" BAILERS
 NYLON CORD WITH PERMANENT CLIPS (33 FT)
 100' TAPE
 ORS PROBE

DAILY LOG

BAILING OF FREE PRODUCT

DATE: 10/10/96

LOCATION:

TECHNICIAN: K. S. S.

Bloomfield
Refinery

N: K. Sank

f:\files\baillog

ADDITIONAL COMMENTS:

EQUIPMENT LIST:
2 - 5 GALLON BUCKETS
1 - 3" BAILER
3 - 1.66" BAILERS
NYLON CORD WITH PERMANENT CLIPS (33 FT)
100' TAPE
ORS PROBE

DAILY LOG

BAILING OF FREE PRODUCT

DATE:

10/19/96

LOCATION:

Bloomfield

Refinement

TECHNICIAN:

K. Singh

40

20

f:\files\bailllog

ADDITIONAL COMMENTS:

EQUIPMENT LIST:

EQUIPMENT LIST:
2 - 5 GALLON BUCKETS

1 - 3" BAILER

3 - 1.66" BAILERS

NYLON CORD WITH PERMANENT CLIPS (33 FT.)

100' TAPE

ORS PROBE

DAILY LOG

BAILING OF FREE PRODUCT

DATE:

10/7/96

LOCATION:

Bloomfield
Refinery

TECHNICIAN:

K. Sinker

f:\files\bailllog

ADDITIONAL COMMENTS:

EQUIPMENT LIST:

EQUIPMENT LIST:
2 - 5 GALLON BUCKETS

1 - 3" BAILER

3 - 1.66" BAILERS

NYLON CORD WITH PERMANENT CLIPS (33 FT.)

100' TAPE
GPO 2200-2

DAILY LOG

BAILING OF FREE PRODUCT

DATE:

month of September
Sept

LOCATION:

TECHNICIAN:

f:\files\bailllog

ADDITIONAL COMMENTS:

EQUIPMENT LIST

EQUIPMENT LIST:
2 - 5 GALLON BUCKETS

1 - 3" BAILER

3 - 1.66" BAILERS

NYLON CORD WITH PERMANENT CLIPS (33 FT.)

100' TAPE

ORS PROBE

DAILY LOG

BAILING OF FREE PRODUCT

DATE: 8-30-96

LOCATION:

TECHNICIAN: *K. Shannon*

f:\files\bailllog

ADDITIONAL COMMENTS:

EQUIPMENT LIST:
2 - 5 GALLON BUCKETS
1 - 3" BAILER
3 - 1.66" BAILERS
NYLON CORD WITH PERMANENT CLIPS ,33 FT
100' TAPE
ORS PROBE

	P.	W.	Thickness	Volume	
RW-24-	13.73	15.13	1.38	500 ml + 60g .1319 + .0469	gal .1788
RW-25	14.56	15.31	0.75	340 ml	.0842
MW-12	14.00	15.42	1.42	480 ml	.1266
MW-29	14.42	15.00	0.58	250 ml	.0660
6" Recycled in Dike 21	19.27	19.75	0.46	not bailed	
MW-17	6.11	6.32	0.21	not bailed	
MW-7	8.07	8.59	0.52	190 ml	.0501

8-16-96
 Kent Morrison
 SITE 810

DAILY LOG

BAILING OF FREE PRODUCT

DATE: 7-26-96

LOCATION: Bloomfield
Refined

TECHNICIAN: *J. Henson*

f:\files\bailllog

ADDITIONAL COMMENTS:

EQUIPMENT LIST:
2 - 5 GALLON BUCKETS
1 - 3" BAILER
3 - 1.66" BAILERS
NYLON CORD WITH PERMANENT CLIPS (33 FT.)
100' TAPE
ORS PROBE

DAILY LOG

BAILING OF FREE PRODUCT

DATE: 7-12-96

LOCATION:

TECHNICIAN:

K. Shannon

f:\files\haillou

ADDITIONAL COMMENTS:

EQUIPMENT LIST:

EQUIPMENT LIST:
2 - 5 GALLON BUCKETS

1 - 3" BAILER

3 - 1.66" BAILERS

NYLON CORD WI
4301 TAPE

100' TAPE
OBS PROBE

ORS PROBE

— 1 —

DAILY LOG

BAILING OF FREE PRODUCT

DATE: 4-26-96

LOCATION: Bloomfield Refinery

TECHNICIAN: K. Hennemeyer

f:\files\bailllog

ADDITIONAL COMMENTS:

EQUIPMENT LIST:
2 - 5 GALLON BUCKETS
1 - 3" BAILER
3 - 1.66" BAILERS
NYLON CORD WITH PERMANENT CLIPS (33 FT.)
100' TAPE
ORS PROBE

DAILY LOG

BAILING OF FREE PRODUCT

DATE: 5-17-96

LOCATION: BLOOMFIELD
REFINERY

TECHNICIAN: *K. Shannon*

f:\files\bailllog

ADDITIONAL COMMENTS:

EQUIPMENT LIST:
2 - 5 GALLON BUCKETS
1 - 3" BAILER
3 - 1.66" BAILERS
NYLON CORD WITH PERM
100' TAPE
ORS PROBE

DAILY LOG

BAILING OF FREE PRODUCT

DATE: 3-29-96

LOCATION: Bloomfield
Refinery

TECHNICIAN: K. Shannon

f:\files\bailllog

ADDITIONAL COMMENTS:

EQUIPMENT LIST:
2 - 5 GALLON BUCKETS
1 - 3" BAILER
3 - 1.66" BAILERS
NYLON CORD WITH PERMANENT CLIPS (33 FT)
100' TAPE
ORS PROBE

My 8' 200 gallons

Apr. 1 26 50 gallons

Refining 810

UST @ stripper

TOTAL gallons since March 5, 1991

250 gallons

DAILY LOG

BAILING OF FREE PRODUCT

DATE:-

3-29-96

LOCATION:

Bloomfield
Refinery

TECHNICIAN:

N: K. Shannon

f:\files\bailllog

ADDITIONAL COMMENTS:

EQUIPMENT LIST:
2 - 5 GALLON BUCKETS
1 - 3" BAILER
3 - 1.66" BAILERS
NYLON CORD WITH PERM
100' TAPE
ORS PROBE

DAILY LOG

BAILING OF FREE PRODUCT

DATE:

4-26-96

LOCATION:

Bloomfield
Refinery

TECHNICIAN:

N: K. Hansen

f:\files\bailllog

ADDITIONAL COMMENTS:

EQUIPMENT LIST:
2 - 5 GALLON BUCKETS
1 - 3" BAILER
3 - 1.66" BAILERS
NYLON CORD WITH PEE
100' TAPE
ORS PROBE

DAILY LOG

BAILING OF FREE PRODUCT

DATE: 5-17-96

LOCATION: BLOOMFIELD
REFINERY

TECHNICIAN: K. Shannon

f:\files\bailllog

ADDITIONAL COMMENTS:

EQUIPMENT LIST:
2 - 5 GALLON BUCKETS
1 - 3" BAILER
3 - 1.66" BAILERS
NYLON CORD WITH PERMANENT CLIPS .33 FT
100' TAPE
ORS PROBE

BioTECH REMEDIATION INC.

QUARTERLY MONITORING REPORT THRIFTWAY REFINERY 626 COUNTY ROAD 5500 BLOOMFIELD, NEW MEXICO 87413

RECEIVED

MAY 13 1996

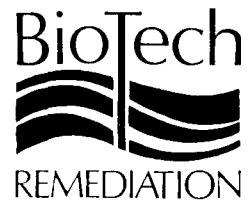
Environmental Bureau
Oil Conservation Division

**PREPARED FOR THE
NEW MEXICO OIL CONSERVATION DIVISION
MR. WILL OLSEN, PROJECT MANAGER, SANTA FE OFFICE
&
MR. DENNY FOUST, AZTEC OFFICE**

BY

**BIOTECH REMEDIATION, INC.
710 EAST 20TH STREET, SUITE 400
FARMINGTON, NEW MEXICO 87401**

MAY 6, 1996



QUARTERLY MONITORING REPORT
THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO

710 East 20th Street, Suite 400
Farmington, New Mexico 87401
Field Office: (505) 632-3365
Fax: (505) 632-9850

PREPARED FOR THE
NEW MEXICO OIL CONSERVATION DIVISION
MR. WILL OLSEN, PROJECT MANAGER, SANTA FE OFFICE

&

MR. DENNY FOUST, AZTEC OFFICE

MAY 6, 1996

BY
BIOTECH REMEDIATION INC.
710 EAST 20TH STREET., SUITE 400
FARMINGTON, NEW MEXICO 87401

PREPARED BY:

A handwritten signature in black ink, appearing to read "Ross Kennemer".

ROSS KENNEMER
PROJECT SCIENTIST/MANAGER

TABLE OF CONTENTS

SECTIONS:

- 1.0 INTRODUCTION
- 2.0 QUARTERLY MONITORING AND SAMPLING FIELD ACTIVITIES
- 3.0 GROUND WATER TREATMENT EQUIPMENT PERFORMANCE
- 4.0 DISCUSSION & CONCLUSIONS

FIGURES:

- FIGURE 1 SITE MAP
- FIGURE 2 WATER CONTOUR MAP
- FIGURE 3 BENZENE PLUME

TABLES:

- TABLE 1 SUMMARY OF GROUND WATER MONITORING DATA
- TABLE 2 SUMMARY OF LABORATORY ANALYSIS DATA

APPENDICES:

- APPENDIX A LABORATORY REPORTS
 QA/QC DATA
 CHAIN OF CUSTODY RECORD
- APPENDIX B PHASE-SEPARATED PRODUCT RECOVERY LOGS

1.0 INTRODUCTION

In compliance with Ground Water Discharge Plan GW-55 and pursuant to the requirements of the New Mexico Oil Conservation Division (NMOCD), BioTech Remediation, Inc., (BioTech) on behalf of Thriftway Company, submits the following quarterly monitoring and sampling report.

This report summarizes the monitoring and sampling events, the compiled data and the phase-separated product recovery activities. An update reporting the performance of the ground water treatment equipment is provided as well.

2.0 QUARTERLY MONITORING AND SAMPLING FIELD ACTIVITIES

On March 3, 1996, BioTech personnel completed the monitoring and sampling requirements for the February 1996 Quarterly Monitoring event. Ground water monitoring well measurements and sampling procedures strictly followed methods described in previous reports.

Summaries of the ground water measurement data, including measurements of phase-separated product and laboratory analysis data are provided in Tables 1 and 2 respectively. Copies of laboratory analysis reports, QA/QC Documentation and Chain of Custody Records are provided in Appendix A.

Prior to this monitoring event, a resurvey was completed for all ground water monitoring wells due to suspicions of inaccuracies in the original survey data. As indicated by the current ground water contour interpretation, which is formulated from the new survey data, this

suspicion has been substantiated and the author now believes the presented interpretations to be correct.

3.0 GROUND WATER TREATMENT EQUIPMENT PERFORMANCE

The air stripper which is used to remove dissolve-phase contamination from ground water, during the pump and treat remediation process, has performed adequately for the entire quarter. Samples collected during mid-quarter from both the inlet and discharge indicated that the unit was efficiently removing 98% of the BTEX constituents. This data is reported in the cumulative summary in Table 2. The laboratory reports and associated documentation for these analysis are provided in Appendix A.

Due to the excessive dissolve solids contained in the ground water, an acid injection system was set in place and is operational; however, it is not sufficient for keeping the stripper tray free of scale buildup. Therefore, a periodic hand cleaning of the tray is needed to maintain efficiency. Following this down time, which usually occurs once every other month, several thousand gallons of water must pass through the stripper and adjustments must be made before peak efficiency is realized. Laboratory analysis of the effluent, during the system restart, indicate benzene levels which slightly exceed acceptable regulatory levels.

The samples collected from the stripper unit were collected during one of the above described restart periods and are summarized in Table 2. The noted concentrations typical of these instances are extremely temporary and the post analysis performed indicate a rapid return to an efficient operating unit.

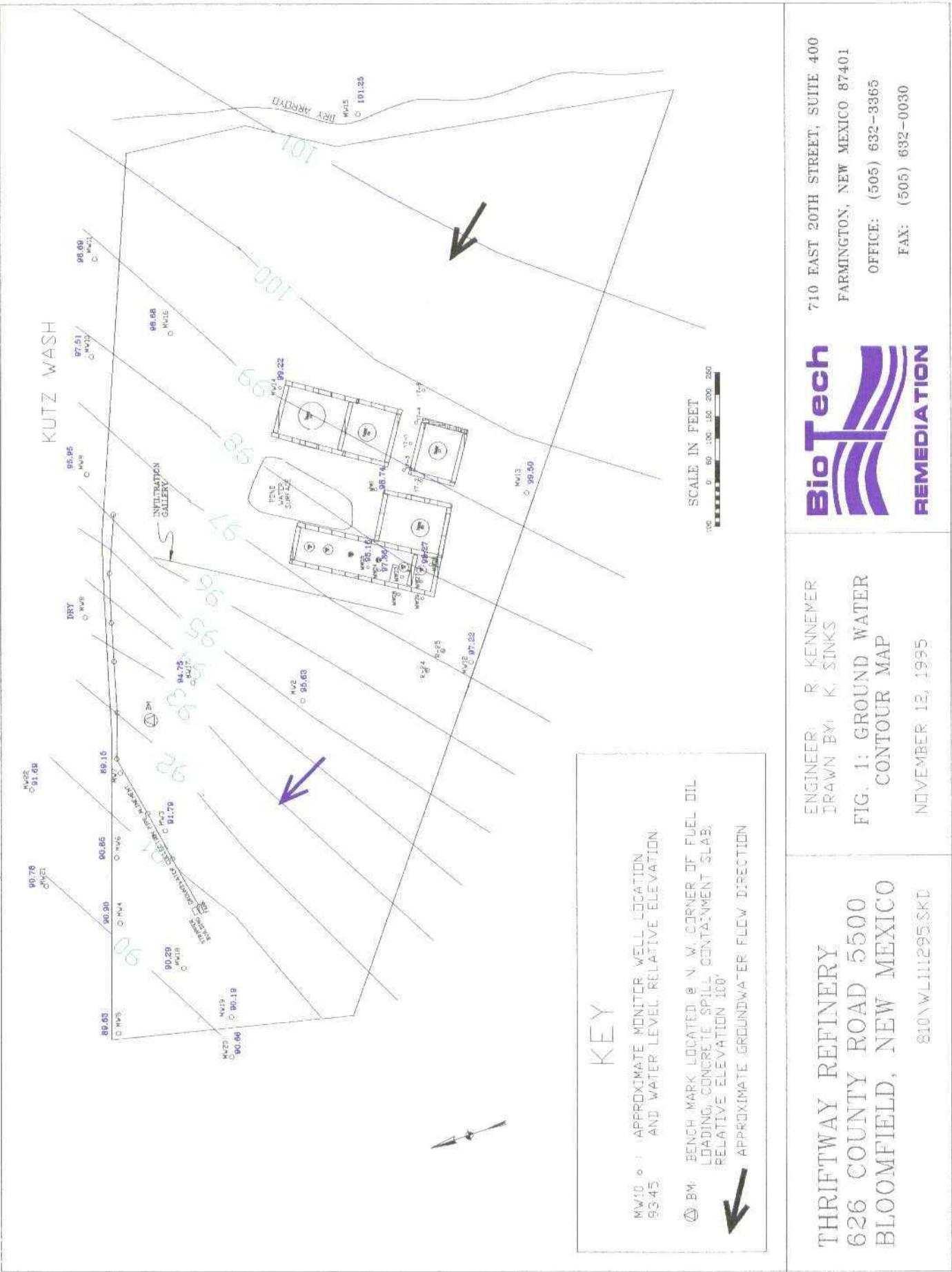
Currently 7.0 gpm of water is being discharged to the infiltration gallery which is a decrease in volume over the past quarter. The cause of the decrease is scale fouling in the formation surrounding the infiltration gallery. This continued problem could be resolved by increasing acid injection rates thereby lowering the pH in the ground water, in the area of the infiltration galleries. Another alternative to mitigate the problematic situation is to abandon the infiltration system and discharge the treated water to the fire water pond. This method would mimic the ground water mounding which occurred while the fire system was operational and the pond received continuous discharges from the on-site artesian well.

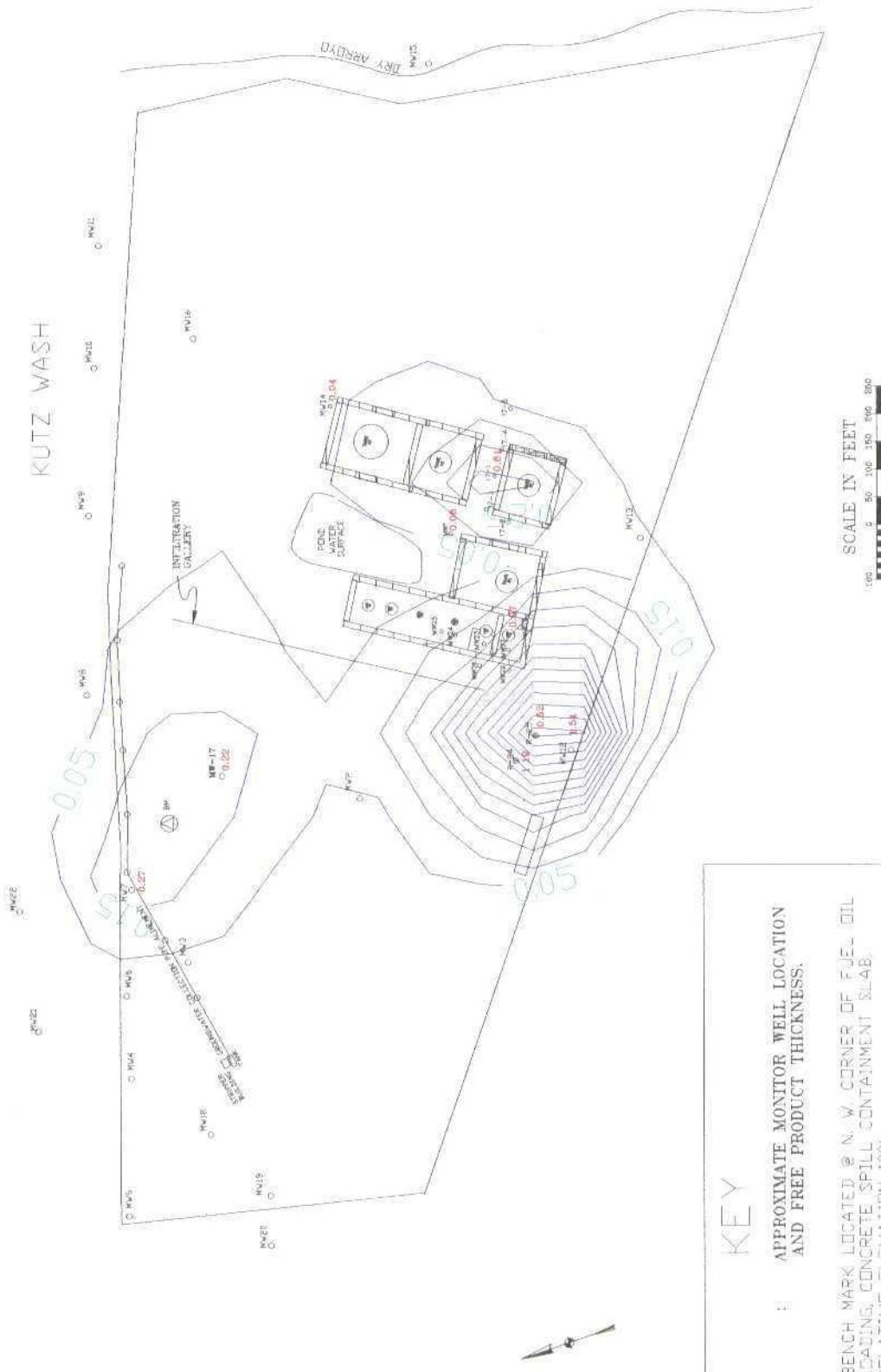
Both options are being examined for consideration and once a decision is made, a proposal will be submitted to the OCD.

4.0 DISCUSSION & CONCLUSIONS

Summaries of ground water analysis and contaminant concentration and location mapping indicate that the ground water remediation system is sufficient in operation. The phase-separated product removal is continuing on a bi-monthly schedule. No significant changes have occurred since the last quarterly monitoring event.

FIGURES





0.22
BM

KEY

APPROXIMATE MONITOR WELL LOCATION
AND FREE PRODUCT THICKNESS.

BENCH MARK LOCATED @ N. W. CORNER OF FUEL OIL SPILL CONCRETE SPILL CONTAINMENT SLAB.
RELATIVE ELEVATION 100'

SCALE IN FEET
0 50 100 150 200 250

THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO
810 N FM 11295 SK

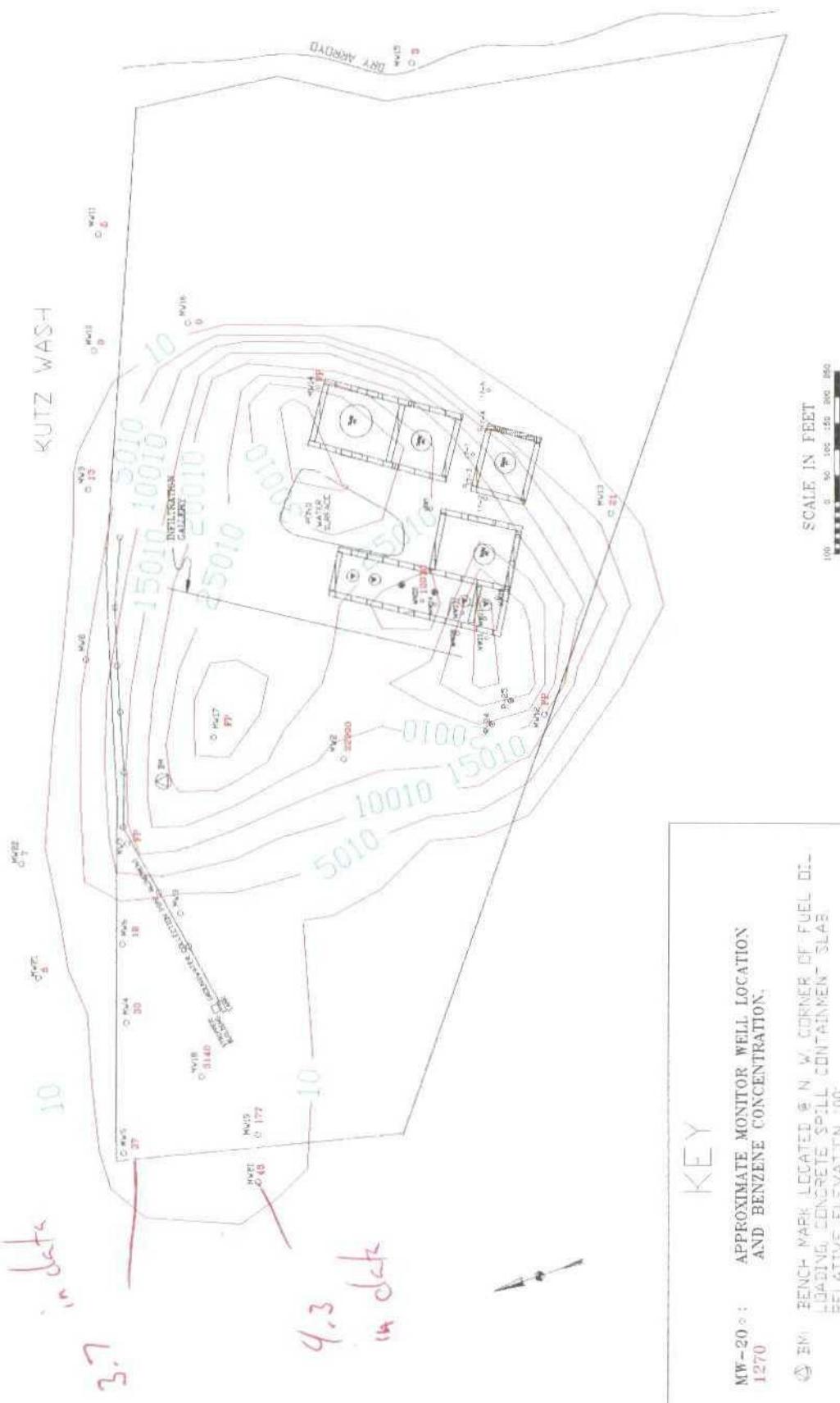
FIG. 2 FREE PRODUCT MAP
NOVEMBER 12, 1995

ENGINEER R. RENNER
DRAWN BY K. SINKS

FIG. 2 FREE PRODUCT MAP
NOVEMBER 12, 1995

710 EAST 20TH STREET, SUITE 400
FARMINGTON, NEW MEXICO 87401
OFFICE: (505) 632-3365
FAX: (505) 632-0030





APPROXIMATE MONITOR WELL LOCATION
AND BENZENE CONCENTRATION.

MW-200 : 1270

EM BENCH MARK LOCATED @ N W CORNER OF FUEL DIL-
LOADING CONCRETE SPILL CONTAINMENT SLAB
RELATIVE ELEVATION 100.

SCALE IN FEET

BioTech 710 EAST 20TH STREET, SUITE 400
DRAWN BY R. KENNEMER FARMINGTON, NEW MEXICO 87401
K. SINKS OFFICE: (505) 632-3365
FIG. 3: BENZENE FAX: (505) 632-0030
CONTOUR MAP
NOVEMBER 12, 1995
REMEDIATION

THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO

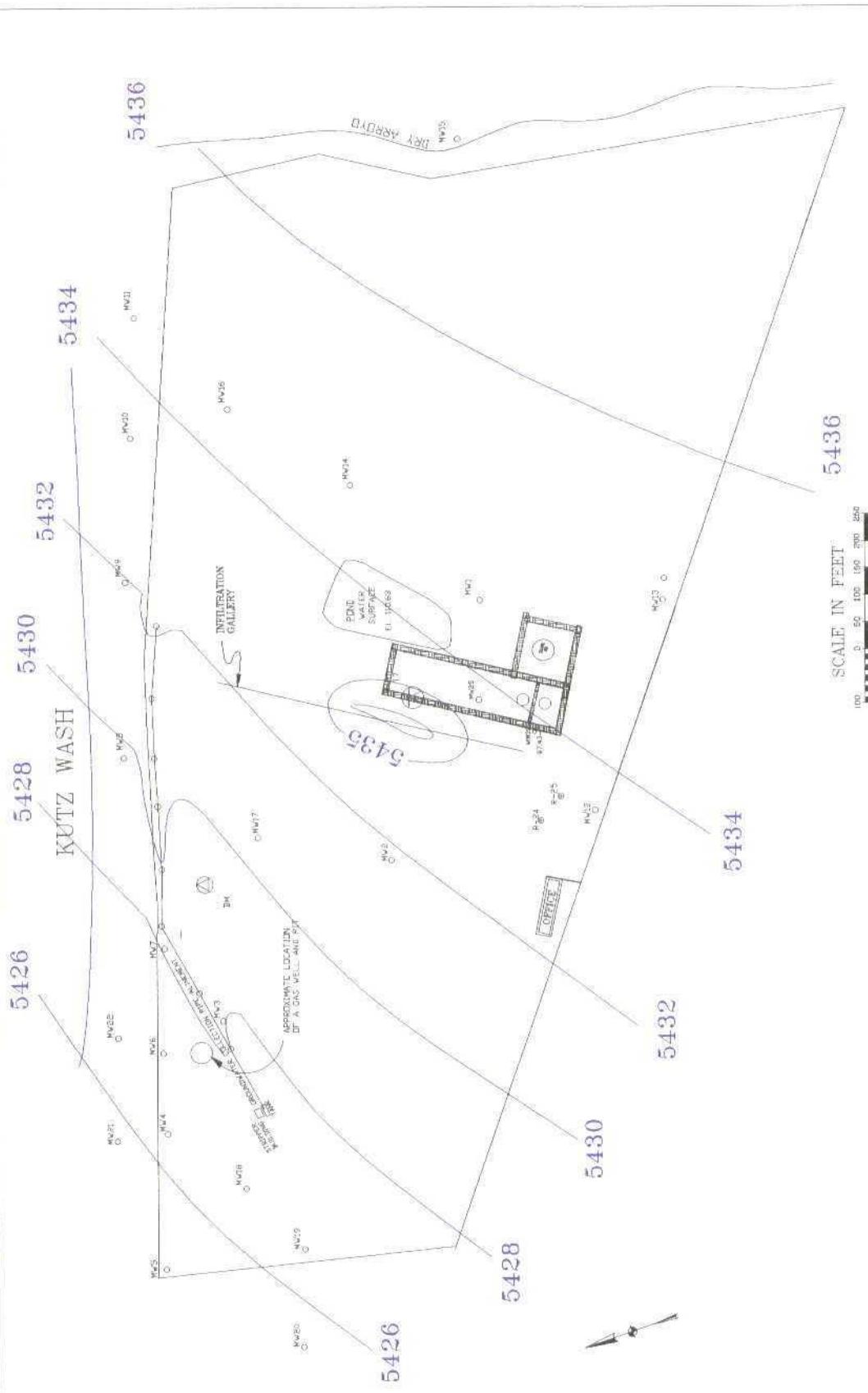
PREPARED BY:
MICHAEL DALY
NEW MEXICO P.E. #1, T.S. 5992

LOCATION: 626 ROAD 5500
BLOOMFIELD, NEW MEXICO 87413
THE HIGHWAY REFINERY
THE HIGHWAY COMPANY
HIGHWAY 6441

PREPARED BY:
MICHAEL DALY
NEW MEXICO P.E. #1, T.S. 5992

Scale 1: 4,000
North arrow
True north
W.L.D.
ABM - 100'
ABM - 200'
ABM - 300'
ABM - 400'





THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO

810\WT030596 SKD

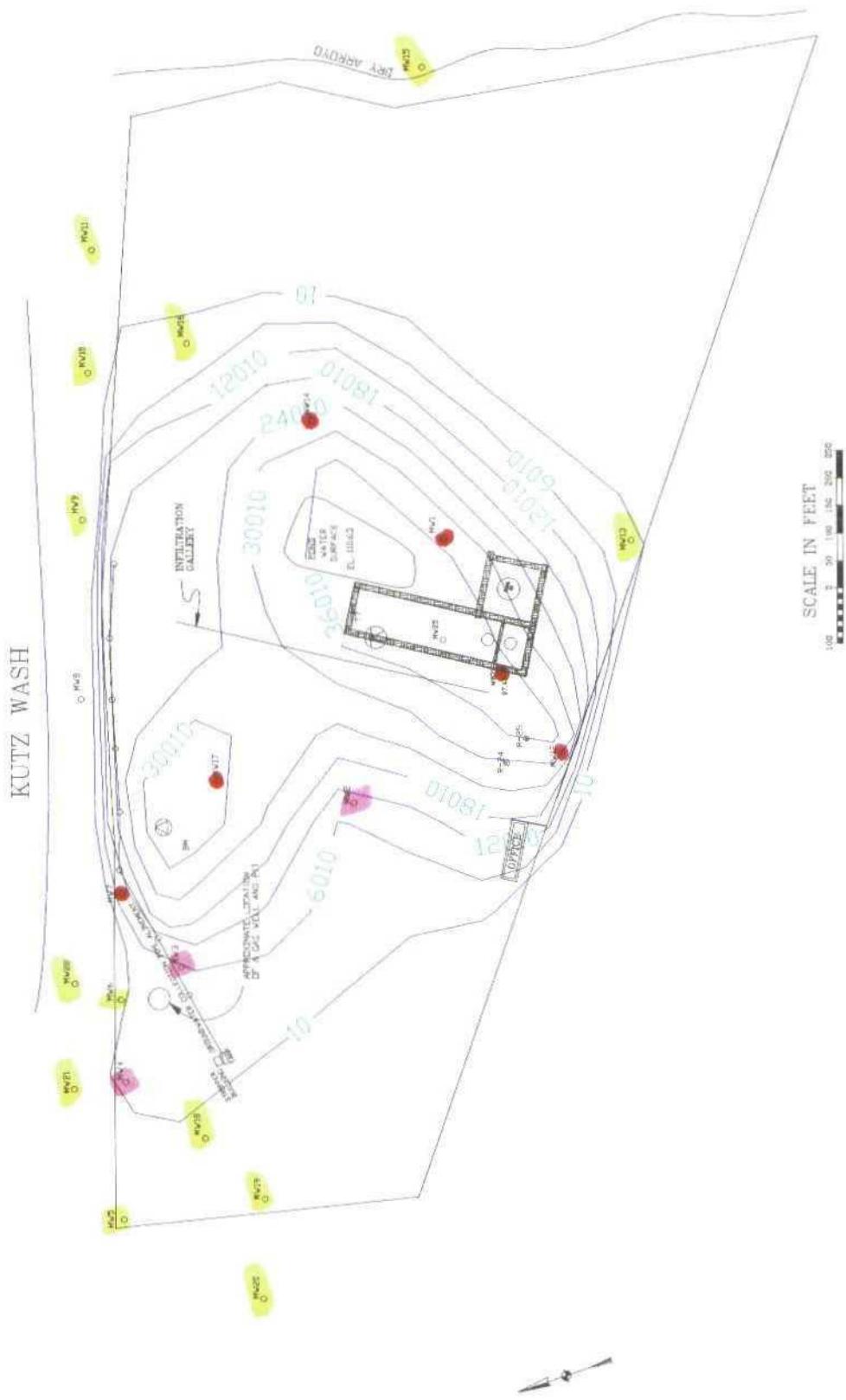
FIG. 2 WATER CONTOUR MAP

FIG. 2 WATER CONTOUR

MAP MARCH 5 1996

710 EAST 20TH STREET, SUITE 400
FARMINGTON, NEW MEXICO 87401
OFFICE: (505) 632-3365

FAN (see) *fan*



THRIFTWAY REFINERY
626 COUNTY ROAD 5500
BLOOMFIELD, NEW MEXICO

ENGINEER: R. KENNEMER
DRAWN BY: K. SINKS
FIG. 3 BENZENE
PLUME

TABLES

TABLE 1
THRIFTWAY REFINERY, BLOOMFIELD, NM
SUMMARY OF GROUND WATER MONITING DATA

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	AIR/OIL INTERFACE (feet))	WATER OUTAGE (feet)	PRODUCT THICKNESS (feet))	WATER LEVEL ELEVATION (feet)	ACCUMULATED PRODUCT (gallons)
1	114.08	02/11/94	16:15		12.97		101.11	
		06/14/94	14:50		13.70		100.38	
		09/20/94	10:55		14.60		99.48	
		01/20/95	11:21		16.08	1.71	98.00	0.52
		04/19/95	10:10		15.52	1.83	98.56	0.79
		08/24/95	18:30		16.1	1.47	97.98	1.32
		11/12/95	11:55		15.41	1.08	98.67	1.66
		5449.08	03/05/96	14:10	15.10	0.09	5433.96	1.66
	2	107.62	02/11/94	14:10	9.91		97.71	
		06/14/94	13:30		10.59		97.03	
		09/20/94	09:25		11.43		96.19	
		01/20/95	13:39		11.73		95.89	
		04/12/95	10:10		11.57		96.05	
		08/24/95	17:25		11.80		95.82	
		11/12/95	10:00		11.99		95.63	
		5442.65	03/05/96	12:40	11.85	0.00	5430.80	
3	96.28	02/11/94	11:25		1.27		95.01	
		06/14/94	14:05		2.40		93.88	
		09/19/94	15:25		3.93		92.35	
		01/20/95	12:10		4.75		91.53	
		04/12/95	08:36		5.21		91.07	
		08/24/95	17:00		4.33		91.95	
		11/12/95	10:20		4.49		91.79	
		5431.43	03/05/96	12:15	5.13	0.00	5426.30	
	4	95.82	02/11/94	10:55	2.93		92.89	
		06/14/94	14:00		3.85		91.97	
		09/19/94	16:05		4.55		91.27	
		01/17/95	16:09		4.77		91.05	
		04/11/95	16:30		4.62		91.20	
		08/28/95	16:45		5.13		90.69	
		11/12/95	10:40		4.92		90.90	
		5430.12	03/05/96	11:45	5.10	0.00	5425.02	
5	94.66	02/11/94	10:20		3.44		91.22	
		06/14/94	13:45		4.13		90.53	
		09/19/94	15:55		4.79		89.87	
		01/17/95	15:47		4.54		90.12	
		04/11/95	15:40		4.33		90.33	
		08/28/95	16:20		5.25		89.41	
		11/12/95	09:40		5.03		89.63	
		5428.97	03/05/96	11:20	4.91	0.00	5424.06	

TABLE 1
THRIFTWAY REFINERY, BLOOMFIELD, NM
SUMMARY OF GROUND WATER MONITING DATA

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	AIR/OIL INTERFACE (feet)	WATER OUTAGE (feet)	PRODUCT THICKNESS (feet))	WATER LEVEL ELEVATION (feet)	ACCUMULATED PRODUCT (gallons)
6	96.31	02/11/94	11:00		1.91		94.40	
		06/14/94	15:00		2.89		93.42	
		09/19/94	16:15		4.03		92.28	
		01/20/95	12:45		4.65		91.66	
		04/12/95	12:45		4.72		91.59	
		08/24/95	16:50		4.59		91.72	
		11/12/95	10:50		5.46		90.85	
		5430.7	03/05/96	11:55	4.95	4.95	0.00	5425.75
7	96.79	02/11/94	11:35		4.36		92.43	
		06/14/94	14:10		5.63		91.16	
		09/19/94	16:25		7.21		89.58	
		01/20/95	13:11		7.60		89.19	
		04/12/95	09:30		8.09		88.70	
		08/24/95	17:10		7.82		88.97	
		11/12/95	10:55		8.11		88.68	
		5434.34	03/05/96	14:25	7.45	7.89	0.44	5426.45
8	97.04	02/11/94	09:00		1.17		95.87	
		06/14/94	11:30		3.09		93.95	
		09/19/94	14:30		3.42		93.62	
		01/17/95	13:17		3.00		94.04	
		04/11/95	13:21		3.00		94.04	
		08/24/95			DRY		DRY	
		11/12/95	1350		DRY		DRY	
		5432.09	03/05/96		DRY	DRY	0.00	DRY
9	100.16	02/10/94	15:57		2.62		97.54	
		06/14/94	11:15		3.85		96.31	
		09/19/94	14:20		4.37		95.79	
		01/17/95	12:53		4.20		95.96	
		04/11/95	13:02		4.20		95.96	
		08/24/95	10:35		4.47		95.69	
		11/12/95	13:40		4.21		95.95	
		5435.19	03/05/96	08:45	4.09	4.09	0.00	5431.10
10	101.55	02/10/94	15:55		2.31		99.24	
		06/14/94	11:00		3.78		97.77	
		09/19/94	13:45		4.51		97.04	
		01/17/95	12:16		4.09		97.46	
		04/11/95	11:32		4.05		97.50	
		08/24/95	10:30		4.31		97.24	
		11/12/95	14:00		4.04		97.51	
		5436.56	03/05/96	08:20	3.95	3.95	0.00	5432.61

TABLE 1
THRIFTWAY REFINERY, BLOOMFIELD, NM
SUMMARY OF GROUND WATER MONITING DATA

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	AIR/OIL INTERFACE (feet))	WATER OUTAGE (feet)	PRODUCT THICKNESS (feet))	WATER LEVEL ELEVATION (feet)	ACCUMULATED PRODUCT (gallons)
11	103.63	02/10/94	15:50		4.16		99.47	
		06/14/94	10:30		4.87		98.76	
		09/19/94	13:55		5.09		98.54	
		01/17/95	10:30		4.83		98.80	
		04/11/95	11:51		4.75		98.88	
		08/24/95	10:15		5.16		98.47	
		11/12/95	14:15		4.94		98.69	
	5438.65	03/05/96	08:55	4.81	4.81	0.00	5433.84	
12	111.11	02/14/94	14:30		11.99	0.47	99.12	2.19
		06/14/94	15:40		14.01	1.87	97.10	7.46
		09/20/94	11:45		15.25	3.17	95.86	11.69
		01/20/95	15:57		15.18	1.96	95.93	16.97
		04/19/95	09:15		13.41	1.81	97.70	18.02
		08/24/95	12:00		15.13	1.69	95.98	21.45
		11/12/95	12:45		15.17	1.54	95.94	22.45
	5446.09	03/05/96	14:40	13.45	14.94	1.49	5432.39	26.45
13	117.12	02/10/94	15:15		16.17		100.95	
		06/14/94	10:00		16.46		100.66	
		09/19/94	11:45		17.05		100.07	
		01/20/95	10:37		17.30		99.82	
		04/11/95	10:30		17.15		99.97	
		08/24/95	15:10		17.47		99.65	
		11/12/95	12:35		17.62		99.50	
	5452.12	03/05/96	15:05	17.43	17.43	0.00	5434.69	
14	111.94	02/14/94	16:00		11.22	0.95	100.72	2.00
		06/15/94	09:10		12.71	1.30	99.23	2.42
		09/20/94	11:30		13.32	1.18	98.62	2.82
		01/20/95	15:01		12.59	0.27	99.35	2.88
		04/19/95	15:01		12.23	0.42	99.71	2.96
		08/24/95	12:15		12.66	0.2	99.28	2.96
		11/12/95	12:05		12.75	0.04	99.19	2.96
	5446.93	03/05/96	15:25	12.20	12.53	0.33	5434.40	3.10
15	114.53	02/10/94	15:45		12.89		101.64	
		06/14/94	10:45		12.81		101.72	
		09/19/94	14:10		13.15		101.38	
		01/17/95	11:50		13.17		101.36	
		04/11/95	12:35		12.96		101.57	
		08/24/95	10:00		13.35		101.18	
		11/12/95	14:30		13.28		101.25	
	5449.51	03/05/96	08:40	13.29	13.29	0.00	5436.22	

TABLE 1
THRIFTWAY REFINERY, BLOOMFIELD, NM
SUMMARY OF GROUND WATER MONITING DATA

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	AIR/OIL INTERFACE (feet))	WATER OUTAGE (feet)	PRODUCT THICKNESS (feet))	WATER LEVEL ELEVATION (feet)	ACCUMULATED PRODUCT (gallons)
16	107.64	02/10/94	15:30		8.03		99.61	
		06/14/94	10:15		8.51		99.13	
		09/19/94	12:00		8.92		98.72	
		01/20/95	11:03		8.78		98.86	
		04/11/95	10:55		8.69		98.95	
		08/24/95	15:35		9.03		98.61	
		11/12/95	12:15		8.96		98.68	
	5442.63	03/05/96	09:15	8.81	8.81	0.00	5433.82	
17	100.84	02/11/94	14:25		3.90		96.94	
		06/14/94	14:12		5.01		95.83	
		09/20/94	11:15		6.11	0.25	94.73	1.06
		01/20/95	14:22		6.10	0.27	94.74	2.24
		04/19/95	09:45		5.85	0.23	94.99	3.03
		08/24/95	17:00		6.39	0.39	94.45	4.54
		11/12/95	11:05		6.27	0.22	94.57	4.54
	5435.57	03/05/96	15:40	5.84	6.04	0.20	5429.53	4.54
18	94.04	02/11/94	10:10		1.75		92.29	
		06/14/94	15:10		2.60		91.44	
		09/19/94	15:45		3.29		90.75	
		01/17/95	15:25		3.64		90.40	
		04/11/95	16:00		3.54		90.50	
		08/24/95	16:10		3.85		90.19	
		11/12/95	08:50		3.75		90.29	
	5429.1	03/05/96	13:30	DRY	DRY	0.00	DRY	
19	93.64	02/11/94	10:00		2.09		91.55	
		06/14/94	13:40		2.55		91.09	
		09/19/94	15:35		3.14		90.50	
		01/17/95	15:04		3.02		90.62	
		04/11/95	15:20		2.89		90.75	
		08/24/95	16:05		3.59		90.05	
		11/12/95	09:30		3.45		90.19	
	5428.69	03/05/96	10:50	3.51	3.51	0.00	5425.18	
20	96.11	02/10/94	16:17		4.30		91.81	
		06/14/94	15:30		4.64		91.47	
		09/19/94	14:45		5.15		90.96	
		01/17/95	13:45		4.99		91.12	
		04/11/95	13:52		4.81		91.30	
		08/24/95	11:35		5.52		90.59	
		11/12/95	08:40		5.45		90.66	
	5430.36	03/05/96	09:50	5.37	5.37	0.00	5424.99	

TABLE 1
THRIFTWAY REFINERY, BLOOMFIELD, NM
SUMMARY OF GROUND WATER MONITING DATA

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	AIR/OIL INTERFACE (feet)	WATER OUTAGE (feet)	PRODUCT THICKNESS (feet))	WATER LEVEL ELEVATION (feet)	ACCUMULATED PRODUCT (gallons)
21	94.34	02/10/94	16:25		1.92		92.42	
		06/14/94	15:15		2.64		91.70	
		09/19/94	14:55		3.38		90.96	
		01/17/95	14:08		3.09		91.25	
		04/11/95	14:31		3.02		91.32	
		08/24/95	11:20		3.83		90.51	
		11/12/95	08:55		3.56		90.78	
	5428.62	03/05/96	10:15	3.55	3.55	0.00	5425.07	
22	97.51	02/10/94	16:25		3.75		93.76	
		06/14/94	15:20		4.96		92.55	
		09/19/94	15:05		5.69		91.82	
		01/17/95	14:26		5.31		92.20	
		04/11/95	14:17		5.29		92.22	
		08/24/95	11:10		6.24		91.27	
		11/12/95	09:10		5.82		91.69	
	5430.75	03/05/96	10:25	5.64	5.64	0.00	5425.11	
23		06/15/94				1.17		0.42
		09/19/94				1.71		0.89
	115.77	01/20/95	15:19		DRY	DRY	DRY	0.89
		04/19/95	11:30		DRY	DRY	DRY	0.89
		08/24/95			DRY	DRY	DRY	0.89
		11/12/95	13:10		DRY	DRY	DRY	0.89
	5448.32	03/05/96	15:55	DRY	DRY	DRY	DRY	0.89
24	116.17	01/20/95	15:16		17.83		98.34	
		04/12/95	11:50		17.45		98.72	
		08/24/95	17:45		17.84		98.33	
		11/12/95	13:15		18.31		97.86	
	5447.53	03/05/96	16:10	DRY	DRY	0.00	DRY	
25	112.62	06/14/94	16:04		9.58		103.04	
		09/20/94	11:00		11.15		101.47	
		01/20/95	15:15		13.78		98.84	
		04/12/95	11:40		12.00		100.62	
		08/24/95	18:10		11.94		100.68	
		11/12/95	13:25		14.46		98.16	
	5447.62	03/05/96	16:15	DRY	DRY	0.00	DRY	

TABLE 1
THRIFTWAY REFINERY, BLOOMFIELD, NM
SUMMARY OF GROUND WATER MONITING DATA

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	AIR/OIL INTERFACE (feet)	WATER OUTAGE (feet)	PRODUCT THICKNESS (feet))	WATER LEVEL ELEVATION (feet)	ACCUMULATED PRODUCT (gallons)
26	112.36	09/20/94	11:52		14.15	0.08	98.21	8.55
		01/20/95	15:46		14.30	0.00	98.06	8.55
		04/19/95	11:45		14.00	0.06	98.36	8.55
		08/24/95	18:30		14.32	0	98.04	8.55
		11/12/95	NOT MEASURED			0.00		8.55
	5447.26	03/05/96	NOT MEASURED		-	0.00		8.55
27		06/15/94				1.43		8.44
		09/20/94				0		8.44
		01/20/95				DRY		8.44
		08/24/95				DRY		8.44
		11/12/95				DRY		8.44
	5448.04	03/05/96				DRY		8.44
28	113.06	01/20/95	15:22	13.83	14.71	0.00	98.35	5.96
		04/19/95	11:40		14.46	0.17	98.60	5.96
		08/24/95	18:45		14.91	0.23	98.15	6.17
		11/12/95	13:05		DRY	0.07	DRY	6.17
		5448.06	03/05/96	16:30	14.64	14.79	0.15	5433.39
	5446.90	01/20/95				0.78		5.91
29		04/12/95				1.09		6.04
		08/24/95				0.72		6.75
		11/12/95				0.78		7.09
		5446.90	03/05/96	NOT MEASURED				7.09
RW-1	REMOVED					DRY		11.16
RW-3	REMOVED					DRY		15.44
RW-8	REMOVED					DRY		32.08
RW-9	REMOVED					DRY		26.91
RW-12	REMOVED					DRY		34.40
RW-13	REMOVED					DRY		28.89
RW-14	REMOVED					DRY		27.18
RW-24	01/20/95					0.80		94.99
	11/12/95					1.19		101.48
	03/05/96	NOT MEASURED						101.48
RW-25	01/20/95					0.90		26.39
	06/19/95					0.90		40.18
	08/25/95					0.00		41.77
	11/12/95					0.52		43.75
	5446.67	03/05/96	NOT MEASURED					43.75

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THRIFTWAY REFINERY, BLOOMFIELD, NM
SUMMARY OF GROUND WATER MONITING DATA

WELL #	TOP OF PIPE ELEVATION	DATE	TIME	AIR/OIL INTERFACE (feet))	WATER OUTAGE (feet)	PRODUCT THICKNESS (feet))	WATER LEVEL ELEVATION (feet)	ACCUMULATED PRODUCT (gallons)
T-17-1		06/15/94				1.62		2.11
		01/20/95				0.80		3.17
		04/12/95				1.20		4.22
		08/24/95				0.93		4.75
		11/12/95				0.61		6.33
	5452.41	03/05/96	NOT MEASURED					6.33
T-17-2	5453.51	01/20/95						
		03/05/96	NOT MEASURED					
T-17-3	5450.98	01/20/95						
		03/05/96	NOT MEASURED					
UST		01/20/95					211.08	
		04/21/95					633.25	
		06/16/95					1688.65	
		08/25/95					1688.65	
		11/12/95					1767.81	
		03/05/96					1767.81	

TOTAL GALLONS OF PRODUCT RECOVERED :

2162.32

MRTABL1.WK4

TABLE 2
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD , NEW MEXICO
CONCENTRATIONS IN mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE
MW-1	02/11/94	7.1210	0.0630	0.2270	0.5970	
	06/22/94	0.0600	0.0240	0.5800	0.1206	1.6280
	09/20/94	9.8510	0.0105	0.2140	0.8960	0.3820
	01/20/95	FREE PRODUCT FOUND IN WELL				
	04/12/95	FREE PRODUCT FOUND IN WELL				
	08/24/95	FREE PRODUCT FOUND IN WELL				
	11/12/95	FREE PRODUCT FOUND IN WELL				
	03/05/96	FREE PRODUCT FOUND IN WELL				
MW-2	02/11/94	3.4780	0.0630	0.5810	0.7860	
	06/22/94	1.0700	0.0239	0.0139	0.4732	0.1380
	09/20/94	3.0050	0.0380	0.3690	0.5096	0.0880
	01/20/95	1.5810	0.0159	0.3950	0.5317	0.0830
	04/12/95	3.0500	0.1700	0.6360	0.8731	0.2290
	08/24/95	2.0730	0.0550	0.3910	0.4471	0.3190
	11/12/95	2.2900	0.0980	0.5360	0.5660	0.3340
	03/05/96	3.1200	0.0535	0.4840	0.5198	0.6640
MW-3	02/11/94	ND	ND	ND	ND	
	06/22/94	0.0128	ND	ND	0.0011	0.0236
	09/19/94	0.0730	0.0009	0.0006	0.0023	0.0390
	01/20/95	0.0262	0.0010	0.0048	0.0042	0.1110
	04/12/95	0.1240	0.0004	0.0082	0.0044	0.2010
	08/24/95	0.0106	0.0024	ND	0.0017	0.2130
	11/12/95	0.0028	0.0018	ND	0.0016	0.2640
	03/05/96	0.1170	0.0059	0.0282	0.0169	0.2980
MW-4	02/11/94	1.1270	0.0100	0.0310	0.0990	
	06/22/94	0.0226	0.0040	0.0003	0.0024	0.0283
	09/19/94	0.0640	0.0055	0.0008	0.0068	0.0570
	01/17/95	0.3910	0.0082	0.0290	0.2040	0.0530
	04/11/95	0.4290	0.0052	0.0112	0.0104	0.0468
	08/24/95	0.0051	0.0049	0.0012	0.0065	0.0309
	11/12/95	0.0030	0.0050	0.0009	0.0068	0.0350
	03/05/96	0.0500	0.0056	ND	0.0083	0.0315
MW-5	02/11/94	0.0060	ND	ND	ND	
	06/22/94	ND	ND	ND	ND	0.0312
	09/19/94	0.0030	ND	0.0004	0.0011	0.0412
	01/17/95	0.0028	ND	ND	ND	0.0550
	04/11/95	0.0031	ND	ND	ND	0.0657
	08/24/95	ND	ND	0.0002	0.0010	0.0477
	11/12/95	0.0037	0.0004	0.0008	0.0011	0.0458
	03/05/96	0.0020	0.0004	0.0006	0.0012	0.0529

TABLE 2
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD , NEW MEXICO
CONCENTRATIONS IN mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE
MW-6	02/11/94	0.0230	0.0170	0.0150	0.0720	
	06/22/94	0.2340	0.0016	0.0337	0.0015	0.0338
	09/19/94	0.0560	0.0047	0.0028	0.0067	0.0418
	01/20/95	0.0009	0.0050	0.0014	0.0054	0.0195
	04/12/95	0.0270	0.0181	0.0026	0.0102	0.0211
	08/24/95	0.0029	0.0013	0.0002	0.0016	0.0266
	11/12/95	0.0018	0.0021	0.0006	0.0012	0.0280
	03/05/96	0.0002	ND	ND	ND	0.0009
MW-7	02/11/94	14.3990	2.0620	0.6300	4.1270	
	06/22/94	4.0830	0.6950	0.3010	1.7170	0.0670
	09/19/94	4.0860	0.2550	0.2110	0.5650	0.0890
	01/20/95	0.1760	0.1250	0.0500	0.4330	0.0680
	04/12/95	FREE PRODUCT FOUND IN WELL				
	08/24/95	FREE PRODUCT FOUND IN WELL				
	11/12/95	FREE PRODUCT FOUND IN WELL				
	03/05/96	FREE PRODUCT FOUND IN WELL				
MW-8	02/11/94	0.0010	0.0007	0.0003	0.0010	
	06/14/94	0.0018	0.0004	ND	ND	0.0470
	09/19/94	0.0045	0.0005	ND	0.0003	0.0650
	01/17/95	0.0022	0.0004	ND	0.0003	0.0750
	04/11/95	0.0013	ND	0.0003	0.0017	0.0876
	08/24/95	DRY				
	11/12/95	DRY				
	03/05/96	DRY				
MW-9	02/11/94	ND	ND	ND	ND	
	06/14/94	ND	ND	ND	ND	0.0156
	09/19/94	0.2210	0.0005	ND	ND	0.0510
	01/17/95	0.0483	ND	ND	ND	0.0469
	04/11/95	0.0558	ND	0.0003	0.0005	0.0400
	08/24/95	0.0710	ND	ND	0.0005	0.0710
	11/12/95	0.0013	0.0082	0.0020	0.0136	0.0358
	03/05/96	0.0008	0.0003	0.0011	0.0013	0.0168
MW-10	02/11/94	ND	ND	ND	ND	
	06/14/94	ND	ND	ND	ND	ND
	09/19/94	ND	ND	ND	ND	0.0003
	01/17/95	ND	ND	ND	ND	0.0003
	04/11/95	0.0015	ND	ND	0.0003	ND
	08/24/95	0.0042	0.0020	0.0051	0.0141	0.0011
	11/12/95	ND	0.0026	0.0006	0.0051	ND
	03/05/96	0.0010	ND	0.0009	0.0004	ND

TABLE 2
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD , NEW MEXICO
CONCENTRATIONS IN mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE
MW-11	02/11/94	ND	ND	ND	ND	
	06/14/94	ND	ND	ND	ND	ND
	09/19/94	ND	ND	ND	ND	ND
	01/17/95	ND	ND	ND	ND	ND
	04/11/95	ND	ND	0.0002	0.0005	ND
	08/24/95	0.0017	ND	0.0008	0.0024	ND
	11/12/95	0.0005	0.0017	0.0005	0.0042	ND
	03/05/96	ND	ND	ND	0.0003	ND
MW-12	02/11/94	FREE PRODUCT FOUND IN WELL				
	06/14/94	FREE PRODUCT FOUND IN WELL				
	09/19/94	FREE PRODUCT FOUND IN WELL				
	01/17/95	FREE PRODUCT FOUND IN WELL				
	04/11/95	FREE PRODUCT FOUND IN WELL				
	08/24/95	FREE PRODUCT FOUND IN WELL				
	11/12/95	FREE PRODUCT FOUND IN WELL				
	03/05/96	FREE PRODUCT FOUND IN WELL				
MW-13	02/11/94	ND	ND	ND	ND	ND
	06/14/94	ND	ND	ND	0.0005	ND
	09/19/94	ND	ND	ND	0.0002	ND
	01/20/95	ND	ND	ND	0.0002	ND
	04/11/95	ND	ND	ND	ND	ND
	08/24/95	ND	ND	ND	ND	0.0003
	11/12/95	0.0021	0.0060	0.0024	0.0209	ND
	03/05/96	ND	ND	ND	0.0005	ND
MW-14	02/11/94	FREE PRODUCT FOUND IN WELL				
	06/14/94	FREE PRODUCT FOUND IN WELL				
	09/19/94	FREE PRODUCT FOUND IN WELL				
	01/20/95	FREE PRODUCT FOUND IN WELL				
	04/11/95	FREE PRODUCT FOUND IN WELL				
	08/24/95	FREE PRODUCT FOUND IN WELL				
	11/12/95	FREE PRODUCT FOUND IN WELL				
	03/05/96	FREE PRODUCT FOUND IN WELL				
MW-15	02/11/94	ND	ND	ND	ND	
	06/14/94	ND	ND	ND	ND	ND
	09/19/94	ND	ND	ND	ND	ND
	01/17/95	ND	ND	ND	ND	ND
	04/11/95	ND	ND	ND	ND	ND
	08/24/95	ND	ND	ND	0.0005	ND
	11/12/95	0.0003	0.0027	0.0004	0.0032	ND
	03/05/96	0.0016	0.0004	0.0038	0.0035	ND

TABLE 2
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD , NEW MEXICO
CONCENTRATIONS IN mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE
MW-16	02/11/94	ND	ND	0.0050	0.0010	
	06/14/94	ND	ND	0.0027	0.0003	ND
	09/19/94	ND	0.0003	0.0006	0.0009	ND
	01/20/95	ND	ND	0.0005	0.0005	0.0003
	04/11/95	ND	ND	0.0003	0.0008	ND
	08/24/95	ND	ND	0.0007	0.0016	ND
	11/12/95	ND	0.0005	0.0019	0.0127	ND
	03/05/96	ND	ND	0.0006	0.0016	ND
MW-17	02/11/94	61.5850	25.4200	1.6580	12.7870	
	06/22/94	21.6100	15.5510	0.8480	7.7600	0.0900
	09/19/94	FREE PRODUCT FOUND IN WELL				
	01/20/95	FREE PRODUCT FOUND IN WELL				
	01/20/95	FREE PRODUCT FOUND IN WELL				
	08/24/95	FREE PRODUCT FOUND IN WELL				
	11/12/95	FREE PRODUCT FOUND IN WELL				
	03/05/96	FREE PRODUCT FOUND IN WELL				
MW-18	02/11/94	0.3610	0.0090	0.0250	0.2450	
	06/22/94	0.0020	ND	ND	ND	0.0335
	09/19/94	0.4090	0.0042	0.0375	0.2406	0.0470
	01/17/95	0.0920	0.0032	0.0131	0.0957	0.0433
	04/11/95	0.0766	0.0014	0.0041	0.0122	0.0300
	08/24/95	0.1780	0.0030	0.0155	0.0098	0.0357
	11/12/95	0.3140	0.0062	0.0326	0.1667	0.0337
	03/05/96	0.0068	0.0024	0.0018	0.0141	0.0530
MW-19	02/11/94	0.0580	0.0200	0.5450	1.4580	
	06/22/94	0.0058	0.0069	0.0112	0.0491	0.0246
	09/19/94	0.0620	0.0040	0.1960	0.4992	0.0433
	01/17/95	0.0083	0.0037	0.1460	0.3364	0.0159
	04/11/95	0.0055	0.0016	0.1390	0.3020	0.0079
	08/24/95	0.0074	0.0027	0.0680	0.1251	0.0320
	11/12/95	0.0177	0.0060	0.2010	0.3520	0.0630
	03/05/96	0.0061	0.0028	0.0249	0.0553	0.0806
MW-20	02/11/94	0.0380	0.0220	0.0840	0.3500	
	06/22/94	0.0104	0.0111	0.0122	0.0207	0.1090
	09/19/94	0.0245	0.0176	0.0100	0.0327	0.1120
	01/17/95	0.0065	0.0173	0.0211	0.0600	0.1090
	04/11/95	0.0016	0.0058	0.0021	0.0120	0.1370
	08/24/95	0.0003	0.0067	0.0023	0.0106	0.1040
	11/12/95	0.0043	0.0152	0.0059	0.0089	0.1390
	03/05/96	0.0036	0.0168	0.0033	0.0218	0.1334

TABLE 2
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD , NEW MEXICO
CONCENTRATIONS IN mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE
MW-21	02/11/94	0.0820	0.0090	0.0260	0.0060	
	06/22/94	0.0173	0.0025	0.0019	0.0019	0.0451
	09/19/94	0.0014	0.0032	0.0009	0.0008	0.0418
	01/17/95	0.0510	0.0080	0.0410	0.0663	0.0392
	04/11/95	0.0034	0.0012	0.0005	0.0016	0.0626
	08/24/95	0.0050	0.0006	0.0004	0.0010	0.0700
	11/12/95	0.0006	0.0007	ND	0.0007	0.0610
	03/05/96	0.0060	0.0020	0.0293	0.0061	0.0820
MW-22	02/11/94	ND	ND	ND	ND	
	06/22/94	ND	ND	ND	ND	0.0392
	09/19/94	ND	ND	ND	ND	0.0358
	01/17/95	ND	ND	ND	ND	0.0408
	04/11/95	ND	ND	ND	ND	0.0353
	08/24/95	ND	ND	ND	0.0004	0.0256
	11/12/95	0.0007	0.0008	0.0002	0.0008	0.0250
	03/05/96	ND	ND	0.0002	0.0004	0.0367
MW-23	02/11/94	198.5730	190.8910	7.2400	48.8370	
	06/22/94	FREE PRODUCT FOUND IN WELL				
	09/19/94	FREE PRODUCT FOUND IN WELL				
	01/20/95	DRY				
	04/12/95	DRY				
	08/24/95	DRY				
	11/12/95	DRY				
	03/05/96	DRY				
MW-25	02/11/94	7.3150	0.0700	0.1150	0.5880	
	06/22/94	NOT SAMPLED				
	09/20/94	5.0500	0.0377	0.0930	0.7360	0.1090
	01/20/95	NOT SAMPLED				
	04/12/95	0.2450	0.0015	0.0036	0.0233	0.0753
	08/24/95	1.6410	0.0153	0.1080	0.1610	0.1000
	11/12/95	1.2070	1.9790	0.3980	2.4700	0.0660
	03/05/96	NOT SAMPLED				
INFLUENT	04/28/93	ND	ND	ND	ND	
	12/13/93	0.0015	0.0009	0.0017	0.0023	
	02/11/94	0.0010	ND	ND	0.0040	
	06/22/94	PUMP SHUT DOWN				
	09/20/94	9.6700	0.7540	0.1580	0.6330	0.0500
	01/20/95	NOT SAMPLED				
	04/12/95	2.0600	0.9870	0.2460	1.6890	0.0245
	03/05/96	6.9900	3.5700	1.3000	6.6800	0.1550

TABLE 2
SUMMARY OF LABORATORY ANALYSIS DATA
THRIFTWAY REFINERY
BLOOMFIELD , NEW MEXICO
CONCENTRATIONS IN mg/L

WELL #	DATE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES	MTBE
EFFLUENT	12/13/93	0.0021	0.0016	0.0013	0.0038	
	02/11/94	BLOWER SHUT DOWN				
	06/22/94	BLOWER SHUT DOWN				
	09/20/94	0.0093	0.0009	ND	0.0007	ND
	01/20/95	NOT SAMPLED				
	04/12/95	0.0975	0.3630	0.2780	2.6390	0.0075
	11/12/95	0.0339	0.0123	0.0089	0.0481	0.0032
	03/05/96	0.0500	0.0212	0.0071	0.0434	0.0070
NMWQCC	12/24/87	0.0100	0.7500	0.7500	0.6200	0.1000

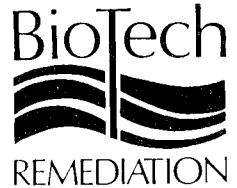
ND - NON-DETECT

810\QMRTABL3

APPENDIX A

BioTech LABORATORIES
710 E. 20th Street, Suite 400
Farmington, New Mexico 87401
Office (505) 632-3365
Fax (505) 632-9850

EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	Mar 05, 1996
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	Mar 06, 1996
SAMPLE ID:	MW-2	DATE ANALYZED:	Mar 06, 1996
SAMPLE NUMBER:	1006	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
METHYL-T-B-ETHER	664	5.0
BENZENE	3120	2.0
TOLUENE	53.5	3.0
ETHYLBENZENE	484	3.0
P,M-XYLENE	454	3.0
O-XYLENE	65.8	2.0

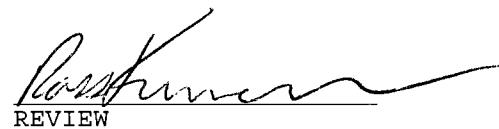
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	96	80 - 120%
	BROMOFLUOROBENZENE	98	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS :


ANALYST


REVIEW

BioTech LABORATORIES
710 E. 20th Street, Suite 400
Farmington, New Mexico 87401
Office (505) 632-3365
Fax (505) 632-9850

EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	Mar 05, 1996
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	Mar 06, 1996
SAMPLE ID:	MW-3	DATE ANALYZED:	Mar 06, 1996
SAMPLE NUMBER:	1005	ANALYSIS:	BTEX/MTBE

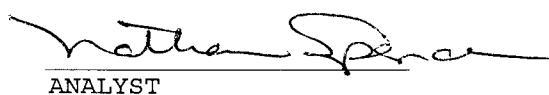
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
METHYL-T-B-ETHER	298	0.4
BENZENE	117	0.3
TOLUENE	5.9	0.3
ETHYLBENZENE	28.2	0.3
P,M-XYLENE	14.1	0.4
O-XYLENE	2.8	0.3

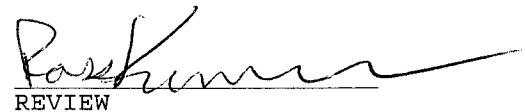
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	102	80 - 120%
	BROMOFLUOROBENZENE	102	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS :


ANALYST


REVIEW

BioTech LABORATORIES
710 E. 20th Street, Suite 400
Farmington, New Mexico 87401
Office (505) 632-3365
Fax (505) 632-9850

EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	Mar 05, 1996
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	Mar 06, 1996
SAMPLE ID:	MW-4	DATE ANALYZED:	Mar 06, 1996
SAMPLE NUMBER:	1003	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
METHYL-T-B-ETHER	31.5	0.2
BENZENE	50.0	0.2
TOLUENE	5.6	0.3
ETHYLBENZENE	ND	0.2
P,M-XYLENE	5.2	0.3
O-XYLENE	3.1	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	89	80 - 120%
	BROMOFLUOROBENZENE	95	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:

Nather Spence
ANALYST

Ross Kinn
REVIEW

BioTech LABORATORIES
710 E. 20th Street, Suite 400
Farmington, New Mexico 87401
Office (505) 632-3365
Fax (505) 632-9850

EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	Mar 05, 1996
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	Mar 06, 1996
SAMPLE ID:	MW-5	DATE ANALYZED:	Mar 06, 1996
SAMPLE NUMBER:	1002	ANALYSIS:	BTEX/MTBE

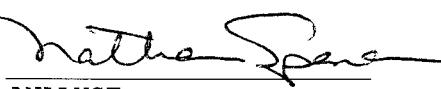
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
METHYL-T-B-ETHER	52.9	0.2
BENZENE	2.0	0.2
TOLUENE	0.4	0.3
ETHYLBENZENE	0.6	0.2
P,M-XYLENE	0.8	0.3
O-XYLENE	0.4	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	91	80 - 120%
	BROMOFLUOROBENZENE	107	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:


ANALYST


REVIEW

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Office (505) 632-3365
Fax (505) 632-9850

EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	Mar 05, 1996
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	Mar 06, 1996
SAMPLE ID:	MW-6	DATE ANALYZED:	Mar 06, 1996
SAMPLE NUMBER:	1004	ANALYSIS:	BTEX/MTBE

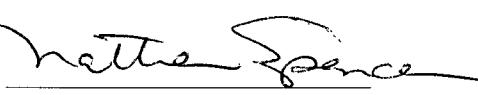
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
METHYL-T-B-ETHER	0.9	0.2
BENZENE	0.2	0.2
TOLUENE	ND	0.3
ETHYLBENZENE	ND	0.2
P,M-XYLENE	ND	0.3
O-XYLENE	ND	0.2

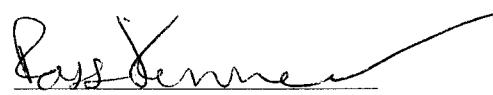
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT	ACCEPTANCE
		RECOVERY	LIMIT
	TRIFLUOROTOLUENE	93	80 - 120%
	BROMOFLUOROBENZENE	99	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS :


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Fax (505) 632-9850

EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	Mar 05, 1996
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	Mar 06, 1996
SAMPLE ID:	MW-9	DATE ANALYZED:	Mar 06, 1996
SAMPLE NUMBER:	0994	ANALYSIS:	BTEX/MTBE

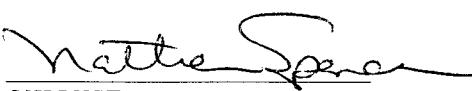
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
METHYL-T-B-ETHER	16.8	0.2
BENZENE	0.8	0.2
TOLUENE	0.3	0.3
ETHYLBENZENE	1.1	0.2
P,M-XYLENE	1.3	0.3
O-XYLENE	ND	0.2

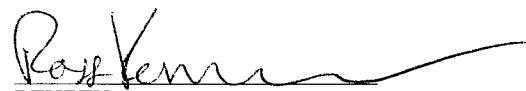
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT	ACCEPTANCE
		RECOVERY	LIMIT
	TRIFLUOROTOLUENE	87	80 - 120%
	BROMOFLUOROBENZENE	92	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS :


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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	Mar 05, 1996
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	Mar 06, 1996
SAMPLE ID:	MW-10	DATE ANALYZED:	Mar 06, 1996
SAMPLE NUMBER:	0992	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
METHYL-T-B-ETHER	ND	0.2
BENZENE	1.0	0.2
TOLUENE	ND	0.3
ETHYLBENZENE	0.9	0.2
P,M-XYLENE	0.4	0.3
O-XYLENE	ND	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	102	80 - 120%
	BROMOFLUOROBENZENE	103	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

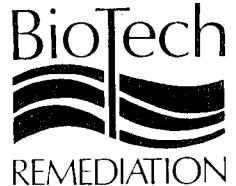
COMMENTS:

ANALYST

REVIEW

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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	Mar 05, 1996
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	Mar 06, 1996
SAMPLE ID:	MW-11	DATE ANALYZED:	Mar 06, 1996
SAMPLE NUMBER:	0995	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
METHYL-T-B-ETHER	ND	0.2
BENZENE	ND	0.2
TOLUENE	ND	0.3
ETHYLBENZENE	ND	0.2
P,M-XYLENE	0.3	0.3
O-XYLENE	ND	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT	ACCEPTANCE
		RECOVERY	LIMIT
	TRIFLUOROTOLUENE	88	80 - 120%
	BROMOFLUOROBENZENE	96	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:

ANALYST

REVIEW

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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	Mar 05, 1996
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	Mar 06, 1996
SAMPLE ID:	MW-13	DATE ANALYZED:	Mar 06, 1996
SAMPLE NUMBER:	0997	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
METHYL-T-B-ETHER	ND	0.2
BENZENE	ND	0.2
TOLUENE	ND	0.3
ETHYLBENZENE	ND	0.2
P,M-XYLENE	0.5	0.3
O-XYLENE	ND	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	92	80 - 120%
	BROMOFLUOROBENZENE	99	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:

Mather Spence
ANALYST

Posthumous
REVIEW

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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	Mar 05, 1996
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	Mar 06, 1996
SAMPLE ID:	MW-15	DATE ANALYZED:	Mar 06, 1996
SAMPLE NUMBER:	0993	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
METHYL-T-B-ETHER	ND	0.2
BENZENE	1.6	0.2
TOLUENE	0.4	0.3
ETHYLBENZENE	3.8	0.2
P,M-XYLENE	3.1	0.3
O-XYLENE	0.4	0.2

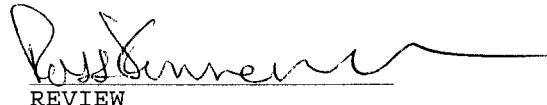
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	93	80 - 120%
	BROMOFLUOROBENZENE	100	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

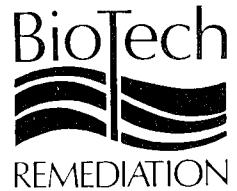
COMMENTS :


ANALYST


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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	Mar 05, 1996
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	Mar 06, 1996
SAMPLE ID:	MW-16	DATE ANALYZED:	Mar 06, 1996
SAMPLE NUMBER:	0996	ANALYSIS:	BTEX/MTBE

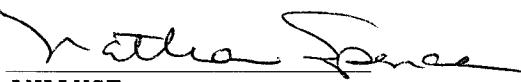
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
METHYL-T-B-ETHER	ND	0.2
BENZENE	ND	0.2
TOLUENE	ND	0.3
ETHYLBENZENE	0.6	0.2
P,M-XYLENE	0.9	0.3
O-XYLENE	0.7	0.2

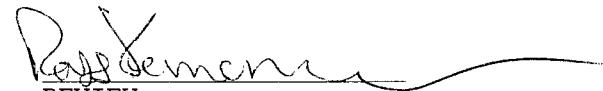
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	84	80 - 120%
	BROMOFLUOROBENZENE	91	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:


ANALYST


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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	Mar 05, 1996
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	Mar 06, 1996
SAMPLE ID:	MW-18	DATE ANALYZED:	Mar 06, 1996
SAMPLE NUMBER:	1009	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
METHYL-T-B-ETHER	53.0	0.4
BENZENE	6.8	0.3
TOLUENE	2.4	0.3
ETHYLBENZENE	1.8	0.3
P,M-XYLENE	12.2	0.4
O-XYLENE	1.9	0.3

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	88	80 - 120%
	BROMOFLUOROBENZENE	99	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS :

Nathan Spencer
ANALYST

Randy Kinneman
REVIEW

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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	Mar 05, 1996
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	Mar 06, 1996
SAMPLE ID:	MW-19	DATE ANALYZED:	Mar 07, 1996
SAMPLE NUMBER:	1001	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
METHYL-T-B-ETHER	80.6	0.5
BENZENE	6.1	0.2
TOLUENE	2.8	0.3
ETHYLBENZENE	24.9	0.3
P,M-XYLENE	49.7	0.3
O-XYLENE	5.6	0.2

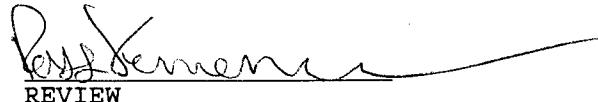
ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	94	80 - 120%
	BROMOFLUOROBENZENE	101	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:


ANALYST


REVIEW

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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	Mar 05, 1996
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	Mar 06, 1996
SAMPLE ID:	MW-20	DATE ANALYZED:	Mar 06, 1996
SAMPLE NUMBER:	0998	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
METHYL-T-B-ETHER	133.4	0.2
BENZENE	3.6	0.2
TOLUENE	16.8	0.3
ETHYLBENZENE	3.3	0.2
P,M-XYLENE	11.1	0.3
O-XYLENE	10.7	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	85	80 - 120%
	BROMOFLUOROBENZENE	104	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

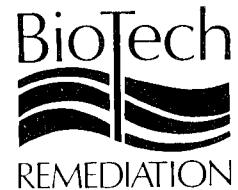
COMMENTS :

ANALYST

REVIEW

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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	Mar 05, 1996
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	Mar 06, 1996
SAMPLE ID:	MW-21	DATE ANALYZED:	Mar 07, 1996
SAMPLE NUMBER:	0999	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
METHYL-T-B-ETHER	82.0	0.2
BENZENE	6.0	0.2
TOLUENE	2.0	0.3
ETHYLBENZENE	29.3	0.2
P,M-XYLENE	5.2	0.3
O-XYLENE	0.9	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	96	80 - 120%
	BROMOFLUOROBENZENE	99	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:

A handwritten signature in black ink, appearing to read "Nathan Spencer".

ANALYST

A handwritten signature in black ink, appearing to read "Ross Kennerlee".

REVIEW

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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	Mar 05, 1996
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	Mar 06, 1996
SAMPLE ID:	MW-22	DATE ANALYZED:	Mar 06, 1996
SAMPLE NUMBER:	1000	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION ($\mu\text{g}/\text{L}$)	DETECTION LIMIT ($\mu\text{g}/\text{L}$)
METHYL-T-B-ETHER	36.7	0.2
BENZENE	ND	0.2
TOLUENE	ND	0.3
ETHYLBENZENE	0.2	0.2
P,M-XYLENE	0.4	0.3
O-XYLENE	ND	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	85	80 - 120%
	BROMOFLUOROBENZENE	93	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:

A handwritten signature in black ink, appearing to read "Nathan Spencer".

ANALYST

A handwritten signature in black ink, appearing to read "Randy Kenneway".

REVIEW

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Farmington, New Mexico 87401
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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	Mar 05, 1996
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	Mar 06, 1996
SAMPLE ID:	Inlet	DATE ANALYZED:	Mar 07, 1996
SAMPLE NUMBER:	1007	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
METHYL-T-B-ETHER	155	50.0
BENZENE	6990	20.0
TOLUENE	3570	30.0
ETHYLBENZENE	1300	30.0
P,M-XYLENE	5470	30.0
O-XYLENE	1210	20.0

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	99	80 - 120%
	BROMOFLUOROBENZENE	98	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

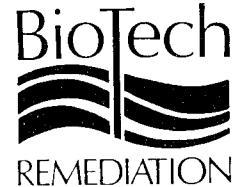
COMMENTS:

Nathan Spence
ANALYST

Bob Dennerline
REVIEW

BioTech LABORATORIES
710 E. 20th Street, Suite 400
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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	Mar 05, 1996
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	Mar 06, 1996
SAMPLE ID:	DISCHARGE	DATE ANALYZED:	Mar 06, 1996
SAMPLE NUMBER:	1008	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
METHYL-T-B-ETHER	7.0	0.4
BENZENE	50.0	0.3
TOLUENE	21.2	0.3
ETHYLBENZENE	7.1	0.3
P,M-XYLENE	32.9	0.4
O-XYLENE	10.5	0.3

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	100	80 - 120%
	BROMOFLUOROBENZENE	101	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:

A handwritten signature in black ink, appearing to read "Nathan Spence".

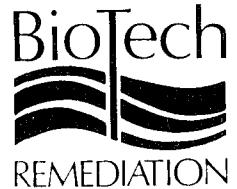
ANALYST

A handwritten signature in black ink, appearing to read "Ross Kennedy".

REVIEW

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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	NA	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	NA	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	NA
PROJECT LOCATION:	NA	DATE RECEIVED:	NA
SAMPLE ID:	Laboratory Blank	DATE ANALYZED:	Mar 06, 1996
SAMPLE NUMBER:	03066AM.00	ANALYSIS:	BTEX

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
MTBE	ND	0.2
BENZENE	ND	0.2
TOLUENE	ND	0.3
ETHYLBENZENE	ND	0.2
P,M-XYLENE	ND	0.3
O-XYLENE	ND	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	91	80 - 120%
	BROMOFLUOROBENZENE	93	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: QA/QC for samples 0992 - 1000, 1002 - 1004.

ANALYST

REVIEW

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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	NA	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	NA	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	NA
PROJECT LOCATION:	NA	DATE RECEIVED:	NA
SAMPLE ID:	LAB BLANK	DATE ANALYZED:	Mar 06, 1996
SAMPLE NUMBER:	03066pm.00	ANALYSIS:	BTEX

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
MTBE	ND	0.4
BENZENE	ND	0.3
TOLUENE	ND	0.3
ETHYLBENZENE	ND	0.3
P,M-XYLENE	ND	0.4
O-XYLENE	ND	0.3

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	97	80 - 120%
	BROMOFLUOROBENZENE	100	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: QA/QC for samples 1005 - 1010.

ANALYST

REVIEW

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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	NA	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	NA	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	NA
PROJECT LOCATION:	NA	DATE RECEIVED:	NA
SAMPLE ID:	Lab blank	DATE ANALYZED:	Mar 07, 1996
SAMPLE NUMBER:	03076am.00	ANALYSIS:	BTEX

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
MTBE	ND	0.5
BENZENE	ND	0.2
TOLUENE	ND	0.3
ETHYLBENZENE	ND	0.3
P , M -XYLENE	ND	0.3
O -XYLENE	ND	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	89	80 - 120%
	BROMOFLUOROBENZENE	91	80 - 120%

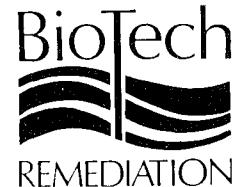
REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: QA/QC for samples 1001 and 1007.

ANALYST

REVIEW

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**QUALITY CONTROL
MATRIX SPIKE RECOVERY
EPA METHOD 8020
AROMATIC VOLATILE ORGANICS**

CLIENT:	NA	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	NA	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	Mar 05, 1996
PROJECT LOCATION:	NA	DATE RECEIVED:	Mar 06, 1996
SAMPLE ID:	MW-10	DATE ANALYZED:	Mar 06, 1996
SAMPLE NUMBER:	0992	ANALYSIS:	BTEX/MTBE

SPIKE CONCENTRATION (ug/L) = 20.0

ANALYTE	Sample Result (ug/L)	Spiked Result (ug/L)	Det. Limit (ug/L)	PERCENT RECOVERY	ACCEPTANCE CRITERIA
METHYL-T-B-ETHER	0.1	22.9	0.0	114	-
BENZENE	1.0	20.5	0.2	98	39 - 150%
TOLUENE	ND	20.5	0.2	102	46 - 148%
ETHYLBENZENE	0.9	20.3	0.3	97	32 - 160%
P,M-XYLENE	0.4	40.7	0.2	101	-
O-XYLENE	ND	20.3	0.3	101	-

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: QA/QC for samples 0992 - 1010.

ANALYST

REVIEW

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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	Jan 17, 1996
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	Jan 17, 1996
SAMPLE ID:	Bypass	DATE ANALYZED:	Jan 23, 1996
SAMPLE NUMBER:	0977	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION ($\mu\text{g}/\text{L}$)	DETECTION LIMIT ($\mu\text{g}/\text{L}$)
METHYL-T-B-ETHER	0.4	0.4
BENZENE	ND	0.2
TOLUENE	0.7	0.4
ETHYLBENZENE	0.4	0.3
P,M-XYLENE	2.4	0.3
O-XYLENE	0.7	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT	ACCEPTANCE
		RECOVERY	LIMIT
	TRIFLUOROTOLUENE	98	80 - 120%
	BROMOFLUOROBENZENE	108	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:

Matthew Spencer
ANALYST

Bob Kammie
REVIEW

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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	Jan 16, 1996
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	Jan 25, 1996
SAMPLE ID:	Stripper Bypass	DATE ANALYZED:	Jan 25, 1996
SAMPLE NUMBER:	0980	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION ($\mu\text{g}/\text{L}$)	DETECTION LIMIT ($\mu\text{g}/\text{L}$)
METHYL-T-B-ETHER	ND	0.4
BENZENE	ND	0.3
TOLUENE	ND	1.1
ETHYLBENZENE	0.3	0.2
P,M-XYLENE	1.9	0.8
O-XYLENE	0.7	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT	ACCEPTANCE
		RECOVERY	LIMIT
	TRIFLUOROTOLUENE	114	80 - 120%
	BROMOFLUOROBENZENE	113	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS :

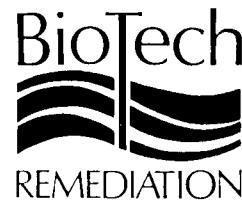
A handwritten signature in black ink, appearing to read "Matthew Spencer".

ANALYST

A handwritten signature in black ink, appearing to read "Reviewer".

REVIEW

EPA METHOD 8020 "BTEX" WORKSHEET



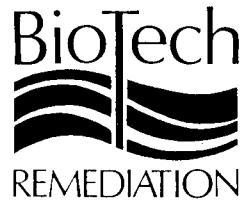
710 East 20th Street, Suite 400
Farmington, New Mexico 87401
Field Office: (505) 632-3365
Fax: (505) 632-9850

CLIENT:	NA	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	NA	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	NA
PROJECT LOCATION:	NA	DATE RECEIVED:	NA
SAMPLE ID:	Laboratory Blank	DATE ANALYZED:	Jan 23, 1996
SAMPLE NUMBER:	01236am.00	ANALYSIS:	BTEX/MTBE

	PEAK AREA	RES. FACTOR	DET. LIMIT (ug/L)	CONCENTRATION (ug/L)
Methyl-T-Butyl Ether	750	3.271E-04	0.4	ND
Benzene:	819	4.639E-05	0.2	ND
Toluene:	3872	4.787E-05	0.4	ND
Ethylbenzene:	1090	5.513E-05	0.3	ND
p,m-Xylene:	1875	4.798E-05	0.3	ND
o-Xylene:	0	5.198E-05	0.2	ND
1,3-Dichlorobenzene	0	5.540E-05	0.2	ND
1,4-Dichlorobenzene	15487	5.433E-05	1.0	ND
1,2-Dichlorobenzene	0	6.529E-05	0.2	ND
BFB:	1480358	3.044E-05	45.3	ND
TFT:	651337	7.894E-05	51.6	ND

Dilution Factor: 1

EPA METHOD 8020
PURGEABLE AROMATICS



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Fax: (505) 632-9850

CLIENT:	NA	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	NA	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	NA
PROJECT LOCATION:	NA	DATE RECEIVED:	NA
SAMPLE ID:	Laboratory Blank	DATE ANALYZED:	Jan 23, 1996
SAMPLE NUMBER:	01236am.00	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
METHYL-T-B-ETHER	ND	0.4
BENZENE	ND	0.2
TOLUENE	ND	0.4
ETHYLBENZENE	ND	0.3
P , M -XYLENE	ND	0.3
O -XYLENE	ND	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	103	80 - 120%
	BROMOFLUOROBENZENE	90	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

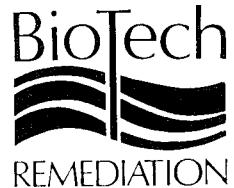
COMMENTS :


ANALYST


REVIEW

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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	Jan 25, 1996
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	Jan 25, 1996
SAMPLE ID:	Tank Return	DATE ANALYZED:	Jan 25, 1996
SAMPLE NUMBER:	0982	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
METHYL-T-B-ETHER	3.9	0.4
BENZENE	5.9	0.3
TOLUENE	5.3	1.1
ETHYLBENZENE	3.4	0.2
P,M-XYLENE	19.3	0.8
O-XYLENE	9.4	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	114	80 - 120%
	BROMOFLUOROBENZENE	116	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:


ANALYST


REVIEW

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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	Jan 25, 1996
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	Jan 25, 1996
SAMPLE ID:	Stripper Discharge	DATE ANALYZED:	Jan 25, 1996
SAMPLE NUMBER:	0981	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
METHYL-T-B-ETHER	4.1	0.4
BENZENE	8.1	0.3
TOLUENE	7.1	1.1
ETHYLBENZENE	4.9	0.2
P,M-XYLENE	23.5	0.8
O-XYLENE	5.9	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT	ACCEPTANCE
		RECOVERY	LIMIT
	TRIFLUOROTOLUENE	115	80 - 120%
	BROMOFLUOROBENZENE	107	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:

ANALYST

REVIEW

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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	Jan 25, 1996
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	Jan 25, 1996
SAMPLE ID:	Stripper Inlet	DATE ANALYZED:	Jan 25, 1996
SAMPLE NUMBER:	0983	ANALYSIS:	BTEX/MTBE

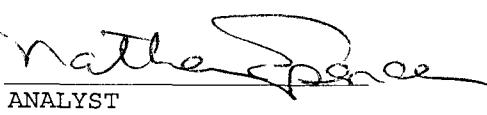
ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
METHYL-T-B-ETHER	194	200
BENZENE	4809	150
TOLUENE	1948	550
ETHYLBENZENE	711	100
P,M-XYLENE	3790	400
O-XYLENE	1344	100

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	116	80 - 120%
	BROMOFLUOROBENZENE	106	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:


ANALYST


REVIEW

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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	NA	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	NA	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	NA
PROJECT LOCATION:	NA	DATE RECEIVED:	NA
SAMPLE ID:	Laboratory Blank	DATE ANALYZED:	Jan 25, 1996
SAMPLE NUMBER:	01256am.00	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION ($\mu\text{g/L}$)	DETECTION LIMIT ($\mu\text{g/L}$)
METHYL-T-B-ETHER	ND	0.4
BENZENE	ND	0.3
TOLUENE	ND	1.1
ETHYLBENZENE	ND	0.2
P,M-XYLENE	ND	0.8
O-XYLENE	ND	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	115	80 - 120%
	BROMOFLUOROBENZENE	104	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: QA/QC for samples 0980 - 0983.


ANALYST


REVIEW

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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	Jan 17, 1996
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	Jan 17, 1996
SAMPLE ID:	Stripper Discharge	DATE ANALYZED:	Jan 23, 1996
SAMPLE NUMBER:	0978	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
METHYL-T-B-ETHER	4.5	0.4
BENZENE	9.0	0.2
TOLUENE	5.4	0.4
ETHYLBENZENE	2.1	0.3
P,M-XYLENE	9.6	0.3
O-XYLENE	4.0	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

QUALITY CONTROL:	SURROGATES	PERCENT	ACCEPTANCE
		RECOVERY	LIMIT
	TRIFLUOROTOLUENE	106	80 - 120%
	BROMOFLUOROBENZENE	95	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:


ANALYST


REVIEW

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EPA METHOD 8020
PURGEABLE AROMATICS



CLIENT:	Thriftway-Refinery	SAMPLE MATRIX:	WATER
CLIENT NUMBER:	810	PRESERVATIVE:	HgCl ₂
PHASE/TASK:	NA	DATE SAMPLED:	Jan 24, 1996
PROJECT LOCATION:	Bloomfield, NM	DATE RECEIVED:	Jan 24, 1996
SAMPLE ID:	Stripper Discharge	DATE ANALYZED:	Jan 24, 1996
SAMPLE NUMBER:	0979	ANALYSIS:	BTEX/MTBE

ANALYTE	CONCENTRATION (ug/L)	DETECTION LIMIT(ug/L)
METHYL-T-B-ETHER	6.7	0.4
BENZENE	8.3	0.2
TOLUENE	7.7	0.4
ETHYLBENZENE	5.3	0.3
P,M-XYLENE	26.6	0.3
O-XYLENE	6.5	0.2

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

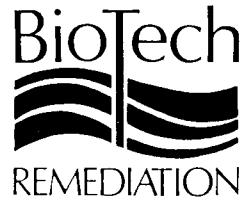
QUALITY CONTROL:	SURROGATES	PERCENT RECOVERY	ACCEPTANCE LIMIT
	TRIFLUOROTOLUENE	109	80 - 120%
	BROMOFLUOROBENZENE	113	80 - 120%

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS:


ANALYST


REVIEW



**QUALITY CONTROL
MATRIX SPIKE RECOVERY
EPA METHOD 8020
AROMATIC VOLATILE ORGANICS**

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Field Office: (505) 632-3365
Fax: (505) 632-9850

CLIENT:	NA	SAMPLE MATRIX:	SOIL
CLIENT NUMBER:	NA	PRESERVATIVE:	COOL
PHASE/TASK:	NA	DATE SAMPLED:	Jan 15, 1996
PROJECT LOCATION:	Lubbock, TX	DATE RECEIVED:	Jan 17, 1996
SAMPLE ID:	1	DATE ANALYZED:	Jan 23, 1996
SAMPLE NUMBER:	0965	ANALYSIS:	BTEX/MTBE

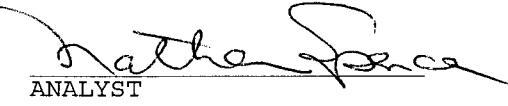
SPIKE CONCENTRATION (ug/Kg) = 55

ANALYTE	Sample Result (ug/Kg)	Spiked Result (ug/Kg)	Det. Limit (ug/Kg)	PERCENT RECOVERY
BENZENE	ND	54	0.5	99
TOLUENE	2.7	52	1.1	91
ETHYLBENZENE	ND	56	0.8	102
P,M-XYLENE	14.0	114	0.8	92
O-XYLENE	8.0	57	0.5	91

ND - ANALYTE NOT DETECTED AT STATED DETECTION LIMIT

REFERENCE: METHOD 5030, PURGE AND TRAP
METHOD 8020, PURGEABLE AROMATICS
TEST METHOD FOR EVALUATION SOLID WASTE,
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY,
SW-846, VOLUME IB, NOVEMBER 1990.

COMMENTS: QA/QC for samples 0965 - 0978.


ANALYST


REVIEW



Biotech Water Quality Laboratories

Zeta Functions of Lattices 100

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11216

CHAIN OF CUSTODY RECORD



Biotech Water Quality Laboratories

110 E 20th Street Suite 100

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~~–~~ Farmington, New Mex

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11219

CHAIN OF CUSTODY RECORD



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Farmington, New Mexico 87401

REMEDIATION Office: (505) 632-3365
Fax: (505) 632-0030

11217

CHAIN OF CUSTODY RECORD

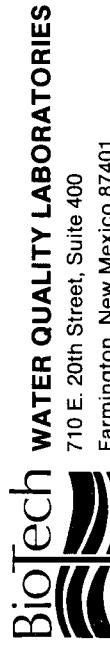
Client/Project Name		Project Location		ANALYSIS/PARAMETERS			
T. V. D. P. & J. # 21115		Blanca, NM		No. Cont.	Test Type		Remarks
Sampler: (Signature)	<i>D. L. Hernandez</i>	Tape No.					
Sample No./ID	Date	Time	Lab No.	Matrix			
Str. 14 discharge	1-22-96	0815	0978	water	2	/	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time
<i>D. L. Hernandez</i>	1-23-96	0815		<i>John Doe</i>		1-23-96	0815
Relinquished by: (Signature)				Received by: (Signature)			
Relinquished by: (Signature)				Received by: (Signature)			



BioTech WATER QUALITY LABORATORIES
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812

CHAIN OF CUSTODY RECORD



710 E. 20th Street, Suite 400

Farmington, New Mexico 87401

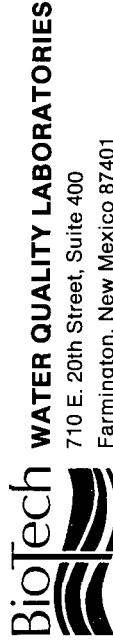
REMEDIATION Office: (505) 632-3365

Fax: (505) 632-0030

11223

CHAIN OF CUSTODY RECORD

Client/Project Name		Project Location		ANALYSIS/PARAMETERS						
Sampler (Signature)	Receiving	Bloomfield, NM	Tape No.	No. Cont.	BTEX	MTBE	Time	Date	Time	Remarks
MW-5	3-5-96	1120	1002	Water	2	1				
MW-4		1145	1003	()	()	()				
MW-6		1155	1004	()	()	()				
MW-3		1215	1005	()	()	()				
MW-2		1240	1006	()	()	()				
At Station Toilet		1300	1007	()	()	()				
At Station Airman		1310	1008	()	()	()				
MW-18		1330	1009	()	()	()				
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Time		
		3-6-96		0900				0900		
Relinquished by: (Signature)						Received by: (Signature)				
Relinquished by: (Signature)						Received by: (Signature)				



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Farmington, New Mexico 87401

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11222

CHAIN OF CUSTODY RECORD

Client/Project Name Tracy, San Fe, NM		Project Location Blanco Field, NM		ANALYSIS/PARAMETERS			
Sampler: (Signature) Bob Johnson	Sample No./ID	Date	Time	Lab No.	Matrix	No. Cont.	BTEX/ MTBE
	MW-10	3-5-96	0820	0992	Water	2	
	MW-15		0840	0993			
	MW-9		0845	6994			
	MW-11		0855	0995			
	MW-16		0915	0996			
	MW-13		0935	0997			
	MW-20		0950	0998			
	MW-41		1015	0999			
	MW-32		1035	1000			
	MW-16		1050	1001			
Relinquished by: (Signature) Bob Johnson		Date	Time	Received by: (Signature)			
		3-6-96	0900	Nedra Sorenson			
Relinquished by: (Signature)				Received by: (Signature)			
Relinquished by: (Signature)				Received by: (Signature)			

APPENDIX B

DAILY LOG

BAILING OF FREE PRODUCT

DATE: 11-27-95

LOCATION: Bloomfield
Refinery

TECHNICIAN: J. Shannon

f:\files\baillog

ADDITIONAL COMMENTS:

EQUIPMENT LIST:
2 - 5 GALLON BUCKETS
1 - 3" BAILER
3 - 1.66" BAILERS
NYLON CORD WITH PERM
100' TAPE
ORS PROBE

DAILY LOG

BAILING OF FREE PRODUCT

DATE: 12-4-95

LOCATION:

Bloomfield
REFINERY

TECHNICIAN

N: L. Shannon

f:\files\baillog

ADDITIONAL COMMENTS:

EQUIPMENT LIST:

2 - 5 GALLON BUCKETS

1 - 3" BAILER

3 - 1.66" BAILERS
NYLON CORR. W.

NYLON CORD WITH PERMANENT CLIPS, .33 FT.,
100' TAPE

100' TAPE
OBS PROBE

ORS PROBE

DAILY LOG

BAILING OF FREE PRODUCT

DATE: 12-20-95

LOCATION: Bloomfield
REFINERY

TECHNICIAN: K. Shannon

f:\files\baillog

ADDITIONAL COMMENTS:

EQUIPMENT LIST:
2 - 5 GALLON BUCKETS
1 - 3" BAILER
3 - 1.66" BAILERS
NYLON CORD WITH PERMANENT CLIPS (33 FT)
100' TAPE
ORS PROBE

DAILY LOG

BAILING OF FREE PRODUCT

DATE: 1-8-96

LOCATION: Bloomfield
Refinery

TECHNICIAN: F. J. Shannon

f:\files\baillog

ADDITIONAL COMMENTS:

EQUIPMENT LIST:
2 - 5 GALLON BUCKETS
1 - 3" BAILER
3 - 1.66" BAILERS
NYLON CORD WITH PERMANENT CLIPS (33 FT.)
100' TAPE
ORS PROBE

DAILY LOG

BAILING OF FREE PRODUCT

DATE: 1-26-96

LOCATION:

TECHNICIAN:

Bloomfield

Refinery 810

K. Thompson

f:\files\bailllog

ADDITIONAL COMMENTS:

EQUIPMENT LIST:
2 - 5 GALLON BUCKETS
1 - 3" BAILER
3 - 1.66" BAILERS
NYLON CORD WITH PERMA
100' TAPE
ORS PROBE

DAILY LOG

BAILING OF FREE PRODUCT

DATE: 2-16-96

LOCATION: Bloomfield
Refinery

TECHNICIAN: 

f:\files\bailllog

ADDITIONAL COMMENTS:

EQUIPMENT LIST:
2 - 5 GALLON BUCKETS
1 - 3" BAILER
3 - 1.66" BAILERS
NYLON CORD WITH PERMANENT CLIPS (33 FT.)
100' TAPE
ORS PROBE

DAILY LOG

BAILING OF FREE PRODUCT

DATE: 3-8-96

LOCATION: Bloomfield
Refinery

TECHNICIAN: R. Shannon

f:\files\bailllog

ADDITIONAL COMMENTS:

EQUIPMENT LIST:
2 - 5 GALLON BUCKETS
1 - 3" BAILER
3 - 1.66" BAILERS
NYLON CORD WITH PERMANENT CLIPS (33 FT)
100' TAPE
ORS PROBE