

AP - 012

# ANNUAL MONITORING REPORT

YEAR(S):

2001

11/5  
lee

**ANNUAL MONITORING REPORT**

**EOTT PIPELINE COMPANY  
TNM 98-05A  
LEA COUNTY, NEW MEXICO**

DP-12

**RECEIVED**

**MAY 09 2001**

**ENVIRONMENTAL BUREAU  
OIL CONSERVATION DIVISION**

**PREPARED FOR:**

**EOTT PIPELINE COMPANY  
5805 EAST HIGHWAY 80  
MIDLAND, TEXAS 79701**

**PREPARED BY:**

**ENVIRONMENTAL TECHNOLOGY GROUP, INC.  
2540 WEST MARLAND  
HOBBS, NEW MEXICO 88240**

**April 2001**

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## INTRODUCTION

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

Ground water monitoring was conducted during four quarterly events in calendar year 2000 to assess the levels and extent of dissolved phase and phase-separated petroleum hydrocarbon (PSH) constituents. The ground water monitoring events consisted of measuring static water levels in the monitoring wells, checking for the presence of PSH, and purging and sampling of each well exhibiting sufficient recharge. Monitoring wells containing measurable levels of PSH were not sampled.

## FIELD ACTIVITIES

The site monitoring wells were gauged and sampled on March 9, May 11, September 12, and December 14, 2000. During each sampling event, the monitoring wells, designated to be sampled, were purged of approximately 3 well volumes of water or until the wells were dry using a PVC bailer or electrical Grundfos Pump. Ground water was allowed to recharge and samples were obtained using disposable Teflon samplers. Water samples were stored in clean, glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a polystyrene tank and disposed of by Pate Trucking, Hobbs, New Mexico, utilizing a licensed disposal facility (OCD AO SWD-730).

## GROUND WATER GRADIENT

Locations of the monitoring wells and the inferred ground water gradient, as measured on December 14, 2000, are depicted on Figure 2, the Site Ground Water Gradient Map. The ground water elevation data are provided as Table 1. Ground water elevation contours, generated from the final quarterly event of calendar year 2000 water level measurements, indicated a general gradient of approximately 0.005 ft/ft to the southeast as measured between ground water monitoring wells MW-2 and MW-6. The depth to ground water, as measured from the top of the well casing, ranged between 46.33 to 48.59 feet for the shallow alluvial aquifer.

A measurable thickness of PSH was detected in monitoring wells MW-1, MW-2, and MW-10 during the annual monitoring period. A maximum thickness of 1.09 feet in monitoring well MW-1, 1.72 feet in monitoring MW-2, and 1.42 feet in monitoring well MW-10 was measured and is shown on Table 1.

## **LABORATORY RESULTS**

Ground water samples collected during the sampling events were hand delivered to Environmental Laboratory of Texas, Midland, Texas for determination of benzene, toluene, ethyl benzene and total xylenes (BTEX) concentrations by EPA Method SW846-8021B. The ground water chemistry data are provided as Table 2 and the Laboratory Reports are provided as Appendix A.

Laboratory results for all of the site ground water samples, obtained during the calendar year 2000 monitoring period, indicated that Benzene and BTEX concentrations were at or below method detection limits for monitoring wells MW-5, MW-6, MW-7, and MW-8. The Benzene concentrations in ground water samples collected from monitoring wells MW-3, MW-4, and MW-9 were above regulatory standards, while BTEX concentrations were below regulatory standards.

## **SUMMARY**

This report presents the results of monitoring activities for the annual monitoring period of calendar year 2000. A measurable thickness of PSH was detected in monitoring wells MW-1, MW-2, and MW-10 during the annual monitoring period. A maximum thickness of 1.09 feet in monitoring well MW-1, 1.72 feet in monitoring MW-2, and 1.42 feet in monitoring well MW-10 was measured in the monitoring wells.

Ground water elevation contours, generated from the final quarterly event of calendar year 2000 water level measurements, indicated a general gradient of approximately 0.005 ft/ft to the southeast as measured between ground water monitoring wells MW-2 and MW-6.

Laboratory results for all of the site ground water samples, obtained during the calendar year 2000 monitoring period, indicated that Benzene and BTEX concentrations were at or below method detection limits for monitoring wells MW-5, MW-6, MW-7, and MW-8. The Benzene concentrations in ground water samples collected from monitoring wells MW-3, MW-4, and MW-9 were above regulatory standards, while BTEX concentrations were below regulatory standards.

## FIGURES

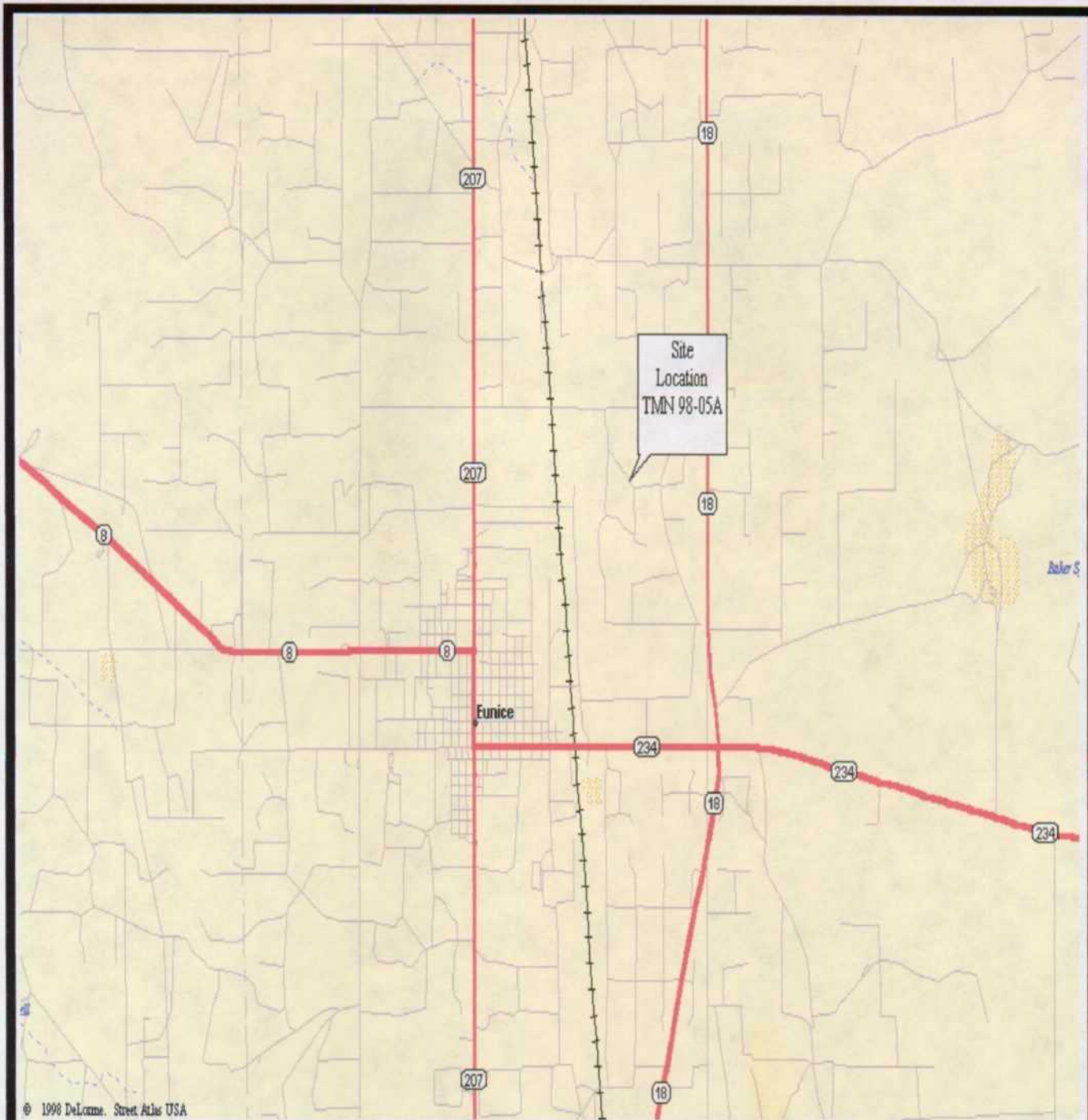


FIGURE  
1

Not To Scale

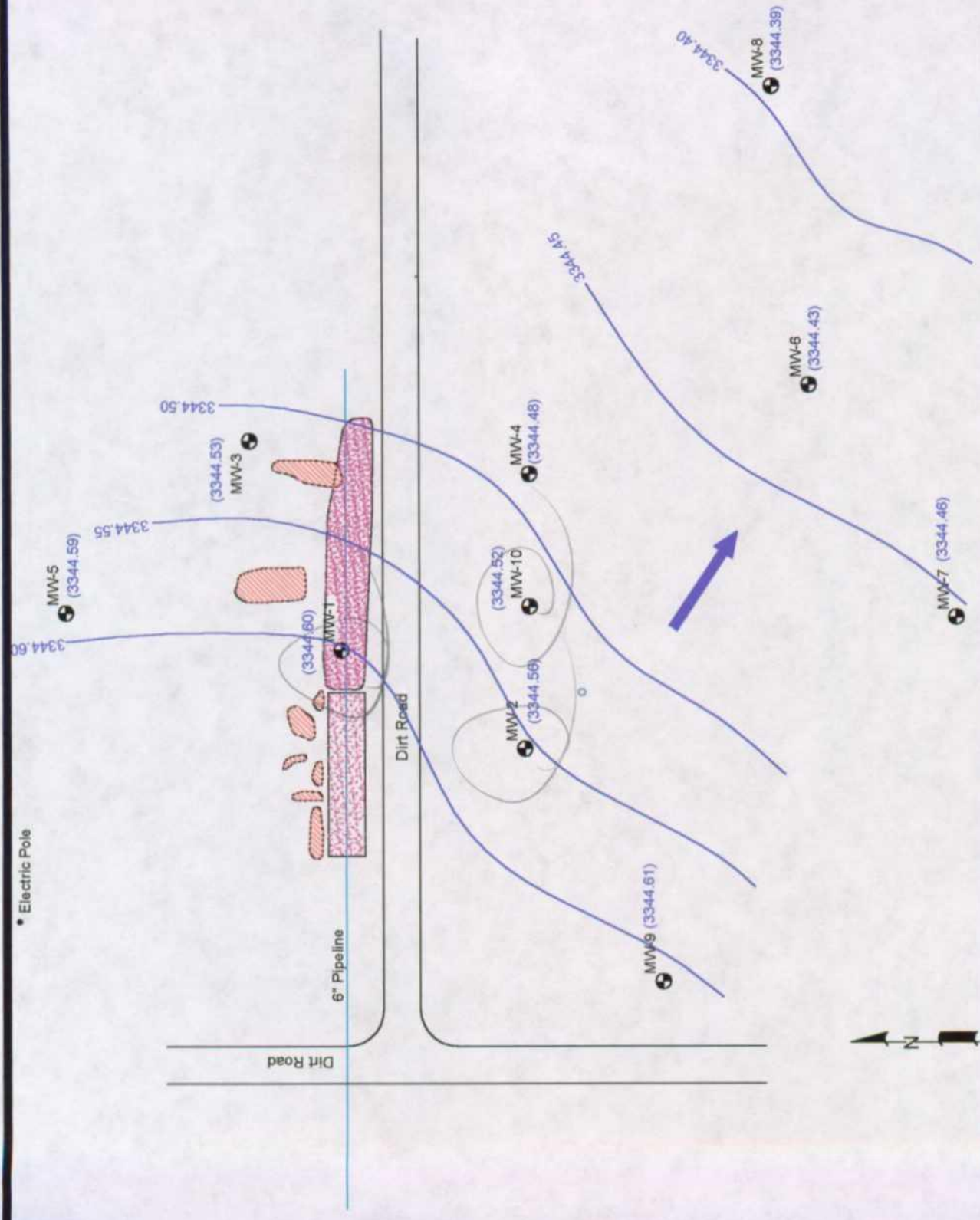
Site Location Map

EOTT Energy Corp.  
Eott Release Site 98-05A  
Lea County, NM

Environmental  
Technology  
Group, Inc.

11 - 22 - 99 RS

ETGI Project # EOT2026C



|                                                                                                          |  |                                                                                                              |                                                                                                                                               |
|----------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| <b>LEGEND:</b><br>Monitoring Well<br>Excavation Backfilled<br>Stockpile Soil<br>ETGI Geo-Probe* Location |  | <b>Figure 2</b><br>Site Groundwater Gradient Map (12/14/00)<br>EOTT Energy Corp.<br>TNM 88-05A<br>Eunice, NM | Environmental Technology Group, Inc.<br>Scale: 1" = 80'<br>Prepared By: RLB<br>December 14, 2000<br>Checked By: CR<br>ETGI Project # EOT2029C |
|----------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|



## TABLES

TABLE 1

GROUND WATER ELEVATION  
ANNUAL REPORTEOTT ENERGY CORPORATION  
TNM 98-05A  
LEA COUNTY, NEW MEXICO  
ETGI PROJECT # EOT2026C

| WELL<br>NUMBER | DATE<br>MEASURED | CASING WELL<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUND WATER<br>ELEVATION |
|----------------|------------------|--------------------------|---------------------|-------------------|------------------|----------------------------------------|
| MW - 1         | 3/9/00           | 3,390.57                 | 46.48               | 47.57             | 1.09             | 3,343.93                               |
|                | 5/11/00          | 3,390.57                 | 46.13               | 46.92             | 0.79             | 3,344.32                               |
|                | 9/12/00          | 3,390.57                 | 46.13               | 46.74             | 0.61             | 3,344.35                               |
|                | 12/14/00         | 3,390.57                 | 45.81               | 46.90             | 1.09             | 3,344.60                               |
| MW - 2         | 3/9/00           | 3,390.85                 | 46.68               | 48.40             | 1.72             | 3,343.91                               |
|                | 5/11/00          | 3,390.85                 | 46.43               | 47.96             | 1.53             | 3,344.19                               |
|                | 9/12/00          | 3,390.85                 | 46.31               | 47.77             | 1.46             | 3,344.32                               |
|                | 12/14/00         | 3,390.85                 | 46.21               | 46.76             | 0.55             | 3,344.56                               |
| MW - 3         | 3/9/00           | 3,391.08                 | -                   | 47.17             | 0.00             | 3,343.91                               |
|                | 5/11/00          | 3,391.08                 | -                   | 46.95             | 0.00             | 3,344.13                               |
|                | 9/12/00          | 3,391.08                 | -                   | 46.89             | 0.00             | 3,344.19                               |
|                | 12/14/00         | 3,391.08                 | -                   | 46.55             | 0.00             | 3,344.53                               |
| MW - 4         | 3/9/00           | 3,390.81                 | -                   | 46.96             | 0.00             | 3,343.85                               |
|                | 5/11/00          | 3,390.81                 | -                   | 46.80             | 0.00             | 3,344.01                               |
|                | 9/12/00          | 3,390.81                 | -                   | 46.75             | 0.00             | 3,344.06                               |
|                | 12/14/00         | 3,390.81                 | -                   | 46.33             | 0.00             | 3,344.48                               |
| MW - 5         | 3/9/00           | 3,391.53                 | -                   | 47.51             | 0.00             | 3,344.02                               |
|                | 5/11/00          | 3,391.53                 | -                   | 47.35             | 0.00             | 3,344.18                               |
|                | 9/12/00          | 3,391.53                 | -                   | 47.25             | 0.00             | 3,344.28                               |
|                | 12/14/00         | 3,391.53                 | -                   | 46.94             | 0.00             | 3,344.59                               |
| MW - 6         | 3/9/00           | 3,391.14                 | -                   | 47.36             | 0.00             | 3,343.78                               |
|                | 5/11/00          | 3,391.14                 | -                   | 47.21             | 0.00             | 3,343.93                               |
|                | 9/12/00          | 3,391.14                 | -                   | 47.14             | 0.00             | 3,344.00                               |
|                | 12/14/00         | 3,391.14                 | -                   | 46.71             | 0.00             | 3,344.43                               |
| MW - 7         | 3/9/00           | 3,391.21                 | -                   | 47.41             | 0.00             | 3,343.80                               |
|                | 5/11/00          | 3,391.21                 | -                   | 47.31             | 0.00             | 3,343.90                               |
|                | 9/12/00          | 3,391.21                 | -                   | 47.23             | 0.00             | 3,343.98                               |
|                | 12/14/00         | 3,391.21                 | -                   | 46.75             | 0.00             | 3,344.46                               |
| MW - 8         | 3/9/00           | 3,391.14                 | -                   | 47.37             | 0.00             | 3,343.77                               |
|                | 5/11/00          | 3,391.14                 | -                   | 47.20             | 0.00             | 3,343.94                               |
|                | 9/12/00          | 3,391.14                 | -                   | 47.11             | 0.00             | 3,344.03                               |
|                | 12/14/00         | 3,391.14                 | -                   | 46.75             | 0.00             | 3,344.39                               |
|                |                  |                          |                     |                   |                  |                                        |

TABLE 1 (CON'T)

| WELL<br>NUMBER | DATE<br>MEASURED | CASING WELL<br>ELEVATION | DEPTH TO<br>PRODUCT | DEPTH TO<br>WATER | PSH<br>THICKNESS | CORRECTED<br>GROUND WATER<br>ELEVATION |
|----------------|------------------|--------------------------|---------------------|-------------------|------------------|----------------------------------------|
| MW - 9         | 3/9/00           | 3,391.47                 | -                   | 47.56             | 0.00             | 3,343.91                               |
|                | 5/11/00          | 3,391.47                 | -                   | 47.44             | 0.00             | 3,344.03                               |
|                | 9/12/00          | 3,391.47                 | -                   | 47.38             | 0.00             | 3,344.09                               |
|                | 12/14/00         | 3,391.47                 | -                   | 46.86             | 0.00             | 3,344.61                               |
| MW - 10        | 3/9/00           | 3,391.26                 | 47.17               | 48.59             | 1.42             | 3,343.88                               |
|                | 5/11/00          | 3,391.26                 | 46.67               | 47.69             | 1.02             | 3,344.44                               |
|                | 9/12/00          | 3,391.26                 | 46.86               | 47.51             | 0.65             | 3,344.30                               |
|                | 12/14/00         | 3391.26                  | 46.61               | 47.51             | 0.90             | 3,344.52                               |
|                |                  |                          |                     |                   |                  |                                        |

TABLE 2

**GROUND WATER CHEMISTRY  
ANNUAL REPORT**

**EOTT ENERGY CORPORATION  
TNM 98-05 A  
LEA COUNTY, NEW MEXICO  
ETGI PROJECT # EOT 2026C**

*All concentrations are in mg/L*

| SAMPLE<br>LOCATION | SAMPLE<br>DATE | SW 846-8021B, 5030 |         |                   |                 |               |
|--------------------|----------------|--------------------|---------|-------------------|-----------------|---------------|
|                    |                | BENZENE            | TOLUENE | ETHYL-<br>BENZENE | M,P-<br>XYLENES | O-<br>XYLENES |
| MW - 3             | 03/09/00       | 0.015              | 0.012   | 0.002             | 0.002           | <0.001        |
|                    | 05/11/00       | 0.056              | 0.048   | 0.006             | 0.004           | 0.002         |
|                    | 09/12/00       | 0.056              | 0.048   | 0.006             | 0.005           | <0.001        |
|                    | 12/14/00       | 0.013              | 0.014   | 0.002             | 0.002           | <0.001        |
| MW - 4             | 03/09/00       | 0.152              | 0.066   | 0.019             | 0.012           | 0.003         |
|                    | 05/11/00       | 0.285              | 0.110   | 0.032             | 0.014           | 0.007         |
|                    | 09/12/00       | 0.269              | 0.068   | 0.026             | 0.006           | 0.003         |
|                    | 12/14/00       | 0.246              | 0.021   | 0.009             | 0.008           | 0.002         |
| MW - 5             | 03/09/00       | 0.001              | 0.001   | <0.001            | 0.001           | <0.001        |
|                    | 05/11/00       | <0.001             | <0.001  | <0.001            | <0.001          | <0.001        |
|                    | 09/12/00       | <0.001             | <0.001  | <0.001            | <0.001          | <0.001        |
|                    | 12/14/00       | <0.001             | <0.001  | <0.001            | <0.001          | <0.001        |
| MW - 6             | 03/09/00       | <0.001             | <0.001  | <0.001            | <0.001          | <0.001        |
|                    | 05/11/00       | <0.001             | <0.001  | <0.001            | <0.001          | <0.001        |
|                    | 09/12/00       | <0.001             | <0.001  | <0.001            | <0.001          | <0.001        |
|                    | 12/14/00       | <0.001             | <0.001  | <0.001            | <0.001          | <0.001        |
| MW - 7             | 03/09/00       | <0.001             | <0.001  | <0.001            | <0.001          | <0.001        |
|                    | 05/11/00       | <0.001             | <0.001  | <0.001            | <0.001          | <0.001        |
|                    | 09/12/00       | <0.001             | <0.001  | <0.001            | <0.001          | <0.001        |
|                    | 12/14/00       | <0.001             | <0.001  | <0.001            | <0.001          | <0.001        |
| MW - 8             | 03/09/00       | 0.001              | <0.001  | 0.001             | <0.001          | <0.001        |
|                    | 05/11/00       | <0.001             | <0.001  | <0.001            | <0.001          | <0.001        |
|                    | 09/12/00       | <0.001             | <0.001  | <0.001            | <0.001          | <0.001        |
|                    | 12/14/00       | <0.001             | <0.001  | <0.001            | <0.001          | <0.001        |
| MW - 9             | 03/09/00       | 0.029              | 0.009   | 0.028             | 0.021           | 0.005         |
|                    | 05/11/00       | 0.056              | 0.034   | 0.008             | 0.009           | 0.004         |
|                    | 09/12/00       | 0.232              | 0.031   | 0.006             | 0.004           | 0.005         |
|                    | 12/14/00       | 0.030              | 0.015   | 0.003             | 0.002           | 0.001         |
|                    |                |                    |         |                   |                 |               |

## APPENDIX

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.  
ATTN: MR. JESSE TAYLOR  
P.O. BOX 4845  
MIDLAND, TEXAS 79704  
FAX: 915-520-4310  
FAX: 505-392-3760

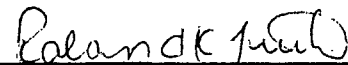
SampleType: Water  
Sample Condition: Intact/ Iced/HCl  
Project #: EOT 1015C  
Project Name: TNM 98-05A  
Project Location: Lea County , N.M.

Sampling Date: 03/09/00  
Receiving Date: 03/10/00  
Analysis Date: 3/13-3/15/00

| ELT#  | FIELD CODE | BENZENE<br>mg/L | TOLUENE<br>mg/L | ETHYLBENZENE<br>mg/L | m,p-XYLENE<br>mg/L | o-XYLENE<br>mg/L |
|-------|------------|-----------------|-----------------|----------------------|--------------------|------------------|
| 24113 | MW-3       | 0.015           | 0.012           | 0.002                | 0.002              | <0.001           |
| 24114 | MW-4       | 0.152           | 0.066           | 0.019                | 0.012              | 0.003            |
| 24115 | MW-5       | 0.001           | 0.001           | <0.001               | 0.001              | <0.001           |
| 24116 | MW-6       | <0.001          | <0.001          | <0.001               | <0.001             | <0.001           |
| 24117 | MW-7       | <0.001          | <0.001          | <0.001               | <0.001             | <0.001           |
| 24118 | MW-8       | 0.001           | <0.001          | 0.001                | <0.001             | <0.001           |
| 24119 | MW-9       | 0.029           | 0.009           | 0.028                | 0.021              | 0.005            |

|       |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|
| % IA  | 96     | 89     | 89     | 100    | 86     |
| % EA  | 98     | 92     | 88     | 98     | 86     |
| BLANK | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |

METHODS: SW 846-8021B,5030

  
Raland K. Tuttle

3-16-00  
Date

# Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763 (915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST  
*COC 102*

Project Manager: *JESSE TAYLOR* Phone: *(915) 664-9166*  
FAX #: *(505) 392-3760*

Company Name & Address: *ETGI*  
*P.O. BOX 4845 MIDLAND TX 79704*

Project #: *EOT 1015C* Project Name: *TNM 98-05A*

Project Location: *LEA COUNTY, NM* Sampler Signature: *Sharon Lora*

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX   |      |     |        |       |          | PRESERVATIVE METHOD |          |      |       | SAMPLING   |             |
|-------------------------|------------|--------------|---------------|----------|------|-----|--------|-------|----------|---------------------|----------|------|-------|------------|-------------|
|                         |            |              |               | WATER    | SOIL | AIR | SLUDGE | OTHER | HCL      | HNO3                | ICE      | NONE | OTHER | DATE       | TIME        |
| <i>MW 3</i>             |            | <i>1</i>     | <i>V</i>      | <i>X</i> |      |     |        |       | <i>X</i> |                     | <i>X</i> |      |       | <i>3-9</i> | <i>0837</i> |
| <i>MW 4</i>             |            |              |               |          |      |     |        |       |          |                     |          |      |       |            | <i>1046</i> |
| <i>MW 5</i>             |            |              |               |          |      |     |        |       |          |                     |          |      |       |            | <i>0858</i> |
| <i>MW 6</i>             |            |              |               |          |      |     |        |       |          |                     |          |      |       |            | <i>0956</i> |
| <i>MW 7</i>             |            |              |               |          |      |     |        |       |          |                     |          |      |       |            | <i>0937</i> |
| <i>MW 8</i>             |            |              |               |          |      |     |        |       |          |                     |          |      |       |            | <i>1021</i> |
| <i>MW 9</i>             |            |              |               |          |      |     |        |       |          |                     |          |      |       |            | <i>0918</i> |

TPH 418.1  
TCLP Metals Ag As Ba Cd Cr Pb Hg Se  
Total Metals Ag As Ba Cd Cr Pb Hg Se  
TCLP Volatiles  
TCLP Semi Volatiles  
TDS  
RCI

|                                        |                         |                      |                                    |                                            |
|----------------------------------------|-------------------------|----------------------|------------------------------------|--------------------------------------------|
| Relinquished by:<br><i>Sharon Lora</i> | Date:<br><i>3-70-00</i> | Time:<br><i>1600</i> | Received by:<br><i>[Signature]</i> | REMARKS:<br><i>MAIL RESULTS: K. DUTTON</i> |
| Relinquished by:                       | Date:                   | Time:                | Received by:                       |                                            |
| Relinquished by:                       | Date:                   | Time:                | Received by Laboratory:            |                                            |

Invoice: *LEA COUNTY F200 1015M*

# ENVIRONMENTAL

## LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.

ATTN: MR. JESSE TAYLOR

P.O. BOX 4845

MIDLAND, TEXAS 79704

FAX: 915-520-4310

FAX: 505-392-3760

Sample Type: Water

Sample Condition: Intact/ Iced/HCl/ 39 deg. C

Project #: EOT 1015C

Project Name: TNM 98-05A

Project Location: Lea County, N.M.

Sampling Date: 05/11/00

Receiving Date: 05/12/00

Analysis Date: 05/15 & 05/16/00

| ELT#  | FIELD CODE | BENZENE<br>mg/L | TOLUENE<br>mg/L | ETHYLBENZENE<br>mg/L | m,p-XYLENE<br>mg/L | o-XYLENE<br>mg/L |
|-------|------------|-----------------|-----------------|----------------------|--------------------|------------------|
| 25681 | MW 3       | 0.056           | 0.048           | 0.006                | 0.004              | 0.002            |
| 25682 | MW 4       | 0.285           | 0.110           | 0.032                | 0.014              | 0.007            |
| 25683 | MW 5       | <0.001          | <0.001          | <0.001               | <0.001             | <0.001           |
| 25684 | MW 6       | <0.001          | <0.001          | <0.001               | <0.001             | <0.001           |
| 25685 | MW 7       | <0.001          | <0.001          | <0.001               | <0.001             | <0.001           |
| 25686 | MW 8       | <0.001          | <0.001          | <0.001               | <0.001             | <0.001           |
| 25687 | MW 9       | 0.056           | 0.034           | 0.008                | 0.009              | 0.004            |

|       |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|
| % IA  | 101    | 97     | 98     | 107    | 96     |
| % EA  | 104    | 101    | 103    | 111    | 101    |
| BLANK | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |

METHODS: SW 846-8021B, 5030



Umesh Rao, Ph. D.

5/16/00

Date



CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

12/20

ANALYSIS REQUEST

|               |                |
|---------------|----------------|
| Project #:    | 20T 10:5C      |
| Project Name: | 7/1/98 98-05 A |

LEA COUNTY, NM

[illegible]

REMARKS

RUS  
 M<sup>rs</sup> Lavers H. D. 200

Rec 390 F

INCOME TAX

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.  
ATTN: BETH ALDRICH  
P.O. BOX 4845  
MIDLAND, TEXAS 79704  
FAX: 915-520-4310  
FAX: 505-397-4701

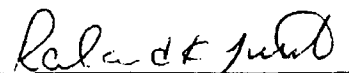
SampleType: Water  
Sample Condition: Intact/ Iced/ HCl/ -1 deg. C  
Project #: EOT 2026C  
Project Name: TNM 98-05A  
Project Location: Lea County, N.M.

Sampling Date: 09/12/00  
Receiving Date: 09/16/00  
Analysis Date: 09/21/00

| ELT#  | FIELD CODE | BENZENE<br>mg/L | TOLUENE<br>mg/L | ETHYLBENZENE<br>mg/L | m,p-XYLENE<br>mg/L | o-XYLENE<br>mg/L | TOTAL<br>BTX<br>mg/L |
|-------|------------|-----------------|-----------------|----------------------|--------------------|------------------|----------------------|
| 30999 | MW 3       | 0.056           | 0.048           | 0.006                | 0.005              | <0.001           | 0.115                |
| 31000 | MW 4       | 0.269           | 0.068           | 0.026                | 0.006              | 0.003            | 0.372                |
| 31001 | MW 5       | <0.001          | <0.001          | <0.001               | <0.001             | <0.001           | <0.001               |
| 31002 | MW 6       | <0.001          | <0.001          | <0.001               | <0.001             | <0.001           | <0.001               |
| 31003 | MW 7       | <0.001          | <0.001          | <0.001               | <0.001             | <0.001           | <0.001               |
| 31004 | MW 8       | <0.001          | <0.001          | <0.001               | <0.001             | <0.001           | <0.001               |
| 31005 | MW 9       | 0.232           | 0.031           | 0.006                | 0.004              | 0.005            | 0.278                |
| 31006 | EB 1       | <0.001          | <0.001          | <0.001               | <0.001             | <0.001           | <0.001               |

|       |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|
| % IA  | 92     | 91     | 92     | 95     | 88     |
| % EA  | 122    | 88     | 90     | 91     | 88     |
| BLANK | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |

METHODS: SW 846-8021B,5030

  
Raland K. Tuttle

9-25-00  
Date

Environmental Lab of Texas, Inc. 12600 West L-1st Odessa, Texas 79763  
 (915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

COC # 227

Project Manager: **BETH ALDERICH**  
 Phone #: (805) 397-4882  
 FAX #: (308) 397-4701

Company Name & Address: **ETGZ**  
**2540 W MARLBOROUGH HOBBS NM**

Project #: **EOT 2026C**  
 Project Name: **TNM 98-05A**

Project Location: **LEA COUNTY NM**  
 Supplier Signature: *[Signature]*

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | MATRIX |      |     |        |       |     | PRESERVATIVE METHOD |     |      |       | SAMPLING |      |
|-------------------------|------------|--------------|--------|------|-----|--------|-------|-----|---------------------|-----|------|-------|----------|------|
|                         |            |              | WATER  | SOIL | AIR | SLUDGE | OTHER | HCL | HNO3                | ICE | NONE | OTHER | DATE     | TIME |
| MW 3                    |            | 2            | X      |      |     |        |       | X   |                     | X   |      |       | 9-12     | 1125 |
| MW 4                    |            |              |        |      |     |        |       |     |                     |     |      |       |          | 1250 |
| MW 5                    |            |              |        |      |     |        |       |     |                     |     |      |       |          | 1110 |
| MW 6                    |            |              |        |      |     |        |       |     |                     |     |      |       |          | 1210 |
| MW 7                    |            |              |        |      |     |        |       |     |                     |     |      |       |          | 1155 |
| MW 8                    |            |              |        |      |     |        |       |     |                     |     |      |       |          | 1230 |
| MW 9                    |            |              |        |      |     |        |       |     |                     |     |      |       |          | 1138 |
| EB 1                    |            |              |        |      |     |        |       |     |                     |     |      |       |          | 1300 |

|                                     |               |              |                                            |                           |
|-------------------------------------|---------------|--------------|--------------------------------------------|---------------------------|
| Relinquished by: <i>[Signature]</i> | Date: 9-15-04 | Times: 1500  | Received by:                               | REMARKS: INVOICE; EOTT    |
| Relinquished by: <i>[Signature]</i> | Date:         | Times:       | Received by:                               | FAX RESULTS; HOBBS OFFICE |
| Relinquished by: <i>[Signature]</i> | Date: 9/14/00 | Times: 14:55 | Received by Laboratory: <i>[Signature]</i> | MAIL RESULTS; EOTT        |

-102

# ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.  
ATTN: BETH ALDRICH  
P.O. BOX 4845  
MIDLAND, TEXAS 79704  
FAX: 915-520-4310

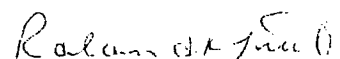
Sample Type: Water  
Sample Condition: Intact/ Iced/ HCl/ -2.5 deg. C  
Project #: EOT 2026C  
Project Name: TNM 98-05A  
Project Location: Lea County, N.M.

Sampling Date: 12/14/00  
Receiving Date: 12/16/00  
Analysis Date: 12/21/00

| ELT#  | FIELD CODE | BENZENE<br>mg/L | TOLUENE<br>mg/L | ETHYLBENZENE<br>mg/L | m,p-XYLENE<br>mg/L | o-XYLENE<br>mg/L |
|-------|------------|-----------------|-----------------|----------------------|--------------------|------------------|
| 35370 | MW-3       | 0.013           | 0.014           | 0.002                | 0.002              | <0.001           |
| 35371 | MW-4       | 0.246           | 0.021           | 0.009                | 0.008              | 0.002            |
| 35372 | MW-5       | <0.001          | <0.001          | <0.001               | <0.001             | <0.001           |
| 35373 | MW-6       | <0.001          | <0.001          | <0.001               | <0.001             | <0.001           |
| 35374 | MW-7       | <0.001          | <0.001          | <0.001               | <0.001             | <0.001           |
| 35375 | MW-8       | <0.001          | <0.001          | <0.001               | <0.001             | <0.001           |
| 35376 | MW-9       | 0.030           | 0.015           | 0.003                | 0.002              | 0.001            |
| 35377 | EB-1       | <0.001          | <0.001          | <0.001               | <0.001             | <0.001           |

|       |        |        |        |        |        |
|-------|--------|--------|--------|--------|--------|
| %IA   | 85     | 92     | 95     | 98     | 91     |
| %EA   | 85     | 85     | 86     | 86     | 86     |
| BLANK | <0.001 | <0.001 | <0.001 | <0.001 | <0.001 |

METHODS: EPA SW 846-8021B, 5030

  
Roland K. Tuttle

12-22-00  
Date

Page of 298

| EOTT ENERGY CORP. Projects Only                                                                                    |            |              |               |        |      |     |        |                     |                  | CHAIN-OF-CUSTODY AND ANALYSIS REQUEST                                                                                                                                                                                                                                                |     |          |      |       |      |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------|------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|----------|------|-------|------|--|--|--|--|
| 4800 West Jall<br>Midland, TX 79703<br>Tel (915) 522-1139<br>Fax (915) 520-4213                                    |            |              |               |        |      |     |        |                     |                  | 5805<br>Midland,<br>TX 79702<br>Tel<br>Fax                                                                                                                                                                                                                                           |     |          |      |       |      |  |  |  |  |
| Project Manager: <b>BETH ALDRICH</b><br>Project Name: <b>TNM 98-USA</b><br>Project Location: <b>LEA County, NM</b> |            |              |               |        |      |     |        |                     |                  | ANALYSIS REQUEST<br>(Circle or Specify Method No.)                                                                                                                                                                                                                                   |     |          |      |       |      |  |  |  |  |
| EOTT Leak Number:<br>ETGi Project Number: <b>EOT 2026C</b><br>Sampler Signature: <i>[Signature]</i>                |            |              |               |        |      |     |        |                     |                  | TDS 1601<br>Semi Volatiles B270C<br>Volatiles B260B<br>TCLP Semi Volatiles<br>TCLP Volatiles<br>TCLP Metals Ag As Ba Cd Cr Pb Se Hg<br>Total Metals Ag As Ba Cd Cr Pb Se Hg B010B/7470<br>PAH 6270C (100 New Mexico only)<br>TPH B015M CRODRO<br>TPH 418 17X 1005<br>BTEX B021B/1005 |     |          |      |       |      |  |  |  |  |
| LAB #<br>(Lab Use Only)                                                                                            | FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX |      |     |        | PRESERVATION METHOD |                  |                                                                                                                                                                                                                                                                                      |     | SAMPLING |      | TIME  |      |  |  |  |  |
|                                                                                                                    |            |              |               | WATER  | SOIL | AIR | SLUDGE | HCL                 | HNO <sub>3</sub> | NaHSO <sub>4</sub>                                                                                                                                                                                                                                                                   | ICE | NONE     | DATE |       |      |  |  |  |  |
| 35370                                                                                                              | MW 3       | 2            | ✓             | ✓      |      |     |        | ✓                   |                  |                                                                                                                                                                                                                                                                                      |     |          |      | 12:14 | 1025 |  |  |  |  |
| 35371                                                                                                              | MW 4       |              |               |        |      |     |        |                     |                  |                                                                                                                                                                                                                                                                                      |     |          |      | 1225  |      |  |  |  |  |
| 35372                                                                                                              | MW 5       |              |               |        |      |     |        |                     |                  |                                                                                                                                                                                                                                                                                      |     |          |      | 1000  |      |  |  |  |  |
| 35373                                                                                                              | MW 6       |              |               |        |      |     |        |                     |                  |                                                                                                                                                                                                                                                                                      |     |          |      | 1132  |      |  |  |  |  |
| 35374                                                                                                              | MW 7       |              |               |        |      |     |        |                     |                  |                                                                                                                                                                                                                                                                                      |     |          |      | 1110  |      |  |  |  |  |
| 35375                                                                                                              | MW 8       |              |               |        |      |     |        |                     |                  |                                                                                                                                                                                                                                                                                      |     |          |      | 1200  |      |  |  |  |  |
| 35376                                                                                                              | MW 9       |              |               |        |      |     |        |                     |                  |                                                                                                                                                                                                                                                                                      |     |          |      | 1046  |      |  |  |  |  |
| 35377                                                                                                              | EB 1       | ✓            | ✓             | ✓      | ✓    | ✓   | ✓      | ✓                   | ✓                | ✓                                                                                                                                                                                                                                                                                    | ✓   | ✓        | ✓    | 1235  | ✓    |  |  |  |  |

REMARKS:

FAX RESULTS: 140885  
 MAIL RESULTS: 5077  
 INVOICE: 5077

Rec-2.5.9c

Relinquished by: *[Signature]* Date: 12-15-98 Time: 1000

Relinquished by: *[Signature]* Date: 12-16-00 Time: 1130

Received by: *[Signature]* Date: 12-15-00 Time: 1000

Received at Lab by: *[Signature]* Date: 12-16-00 Time: 1130