AP - 013

ANNUAL MONITORING REPORT

YEAR(S):

2001

12/13/01

ANNUAL GROUNDWATER MONITORING REPORT

EOTT ENERGY PIPELINE, LP
TNM 97-18
MONUMENT, NEW MEXICO

Prepared for:
EOTT Energy Pipeline, LP
5805 East Highway 80
Midland, Texas 79701

ETGI Project #EOT2025C

Prepared by:
Environmental Technology Group, Inc.
4600 West Wall Street
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November 2001

Matina V. Smith
Geologist/Sr. Project Manager

Glenn Waldrop
Vice President

TABLE OF CONTENTS

1.0 INTRODUCTION 1

2.0 FIELD ACTIVITIES 1

3.0 LABORATORY RESULTS 1

3.1 March 2001 Sampling Event 2
3.2 May 2001 Sampling Event 2
3.3 August 2001 Sampling Event 2
3.4 October 2001 Sampling Event 3

4.0 GROUNDWATER GRADIENT 3

5.0 SUMMARY 3

6.0 LIMITATIONS 3

7.0 DISTRIBUTION 5

TABLES

TABLE 1: Concentrations of BTEX in Groundwater
TABLE 2: Groundwater Elevations & PSH Thickness Data

FIGURES

FIGURE 1: Site Location Map
FIGURE 2: Site Map
FIGURE 3: Groundwater Gradient Map (August 27, 2001)

APPENDICES

APPENDIX A: Laboratory Reports
APPENDIX B: 2001 Groundwater Elevations

1.0 INTRODUCTION

On behalf of EOTT Energy Pipeline, LP (EOTT), Environmental Technology Group, Inc. (ETGI) is pleased to submit this Annual Groundwater Monitoring Report in compliance with the New Mexico Oil Conservation Division (NMOCD) letter dating May 1998, requiring submittal of an annual report by April 1st of each year. This report presents the results of the quarterly groundwater monitoring events only. For reference, a site location and site map are provide as Figure 1 and Figure 2 respectively.

2.0 FIELD ACTIVITIES

Groundwater monitoring was conducted quarterly to assess the levels and distribution of dissolved phase and free phase petroleum hydrocarbon constituents. Each monitoring event consisted of measuring static water levels in the monitor wells, checking for the presence of phase separated hydrocarbons (PSH), and purging and sampling of each well exhibiting sufficient recharge. Monitor wells containing measurable levels of PSH were not sampled.

Wells at this site were gauged and sampled on the following dates: March 5, 2001; April 17, 2001; August 27, 2001; and October 24, 2001. During these sampling events, the monitor wells were first gauged then purged of approximately three well volumes of water or until the wells were dry using a disposable bailer or electrical Grundfos pump. Groundwater was allowed to recharge and samples were obtained using disposable polyethylene samplers. Monitor wells with a measurable presence of PSH were not sampled. Water samples were stored in clean glass VOA's with preservative 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 of Hobbs, New Mexico, utilizing a licensed disposal facility (OCD AO SWD-730).

3.0 LABORATORY RESULTS

Groundwater samples collected during each sampling event were shipped to either Environmental Lab of Texas, Inc. in Odessa, Texas, TraceAnalysis, Inc. in Lubbock, Texas, or AnalySys, Inc. in Austin, Texas for analyses of benzene, toluene, ethylbenzene, and total xylenes (BTEX) concentrations using the methods described below.

- BTEX concentrations in accordance with EPA Method SW846-8260B (AnalySys, Inc.)
- BTEX concentrations in accordance with EPA Method SW846-8021B (Environmental Lab of Texas, Inc. and TraceAnalysis, Inc.)

All concentrations of BTEX in groundwater are provided in Table 1 and the Laboratory Reports are provided as Appendix A.

3.1 March 2001 Sampling Event

Laboratory analysis indicates that BTEX concentrations on March 5, 2001 were below the detection limit of <0.001 mg/L for monitor well MW-1. Monitor well MW-3 BTEX concentrations were over the New Mexico Water Quality Control Commission (WQCC) groundwater standards for benzene with a concentration of 0.56 mg/L. Toluene (0.002 mg/L), ethylbenzene (0.29 mg/L), and total xylenes (0.046 mg/L) were also detected in monitor well MW-3. Monitor wells MW-2, MW-4, and MW-5 were not sampled due to the presence of PSH.

The groundwater elevations, in relation to mean sea level, measured on this date ranged between 3468.44 feet at monitor well MW-4 to 3471.23 feet at monitor well MW-1.

3.2 May 2001 Sampling Event

BTEX concentrations sampled on May 17, 2001 were below detection limits (<0.005 mg/L) for monitor well MW-1. BTEX concentrations for monitor well MW-3 was above WQCC groundwater standards for benzene and total xylenes with a concentration of 0.557 mg/L for benzene and 0.9482 mg/L for total xylenes. Monitor well MW-3 showed a hit of ethylbenzene (0.283 mg/L) and no detection of toluene. Monitor wells MW-2, MW-4, and MW-5 were not sampled due to the presence of PSH.

The groundwater elevations, in relation to mean sea level, measured on this date ranged between 3468.68 feet at monitor well MW-4 to 3471.45 feet at monitor well MW-1.

3.3 August 2001 Sampling Event

During the August 27, 2001 sampling event, BTEX concentrations for monitor wells MW-1 was below the detection limit of <0.001 mg/L. Monitor well MW-3 BTEX concentrations were over WQCC groundwater standards for benzene with a concentration of 0.18 mg/L. Monitor well MW-3 also had a detection of ethylbenzene (0.02 mg/L), total xylenes (0.2 mg/L), and no detection of toluene. Monitor wells MW-2, MW-4, and MW-5 were not sampled due to the presence of PSH.

The groundwater elevations, in relation to mean sea level, measured on this date ranged between 3467.66 feet at monitor well MW-4 to 3470.22 feet at monitor well MW-1.

3.4 October 2001 Sampling Event

Laboratory results for the October 24, 2001 sampling event indicate that BTEX concentrations for monitor well MW-1 was below detection limits (<0.001 mg/L). BTEX concentrations were above WQCC groundwater standards for benzene (0.162 mg/L) in monitor well MW-3. Monitor well MW-3 also showed detection of ethylbenzene (0.131 mg/L) and total xylenes (0.0323 mg/L) but no detection of toluene. Monitor wells MW-2, MW-4, and MW-5 were not sampled due to the presence of PSH.

The groundwater elevations, in relation to mean sea level, measured on this date ranged between 3468.26 feet in monitor well MW-4 to 3471.52 feet in monitor well MW-1. During the fourth quarter sampling, monitor well MW-2 showed a two foot drop in elevation when compared to all other monitor well elevations. This drop is possibly due to measurement error.

4.0 GROUNDWATER GRADIENT

Groundwater elevation contours, generated from the third quarterly sampling event of calendar year 2001 water level measurements, indicated a general gradient of approximately 0.006 ft/ft to the southeast. Groundwater elevation data is provided in Table 2 and a groundwater gradient map from the August 27, 2001 sampling event is provided as Figure 3. A chart showing fluctuations in elevation throughout the year is provided in Appendix B.

5.0 SUMMARY

This report presents the results of monitoring activities that took place during the calendar year 2001. PSH remains a recurrent problem in monitor wells MW-2, MW-4, and MW-5. ETGI will pursue the installation of a more active recovery system in the source area to prevent further migration of the oil plume.

6.0 LIMITATIONS

ETGI will continue to submit an Annual Groundwater Monitoring Report to the NMOCD and EOTT summarizing the progression of remediation and sampling of groundwater. ETGI has prepared this report to the best of its ability. No other warranty, expressed or implied, is made or intended.

ETGI has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. ETGI has not conducted an independent examination of the facts contained in referenced material and statements. We have presumed the genuineness of the documents and that the

information provided in documents or statements is true and accurate. ETGI has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. ETGI also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions described at the time of this report.

This report has been prepared for the benefit of EOTT. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the expressed written consent of ETGI and/or EOTT.

7.0 DISTRIBUTION

Copy 1 & 2: Mr. William C. Olson/Randy Bayliss
New Mexico Oil Conservation Division
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Santa Fe, New Mexico 87505

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Hobbs, New Mexico 88240

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Midland, Texas 79703

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2540 West Marland
Hobbs, New Mexico 88240

TABLES

Table 1

CONCENTRATIONS OF BTEX IN GROUNDWATER

EOTT Energy Pipeline, LP
TNM 97-18
Monument, New Mexico
ETGI Project #EOT2025C

All concentrations are in mg/L

SAMPLE DATE	SAMPLE LOCATION	SW 846-8021B, SW 846-8260B					
		BENZENE	TOLUENE	ETHYL-BENZENE	M,P-XYLENES	O-XYLENES	BTEX
2/3/99	MW - 1	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001
5/13/99		<0.001	<0.001	<0.001	<0.001	<0.002	<0.001
08/24/99		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11/30/99		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
02/03/00		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
03/03/00		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
05/16/00		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
09/01/00		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
11/21/00		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
03/05/01		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
05/17/01		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
08/27/01		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
10/24/01		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
02/03/99	MW - 2	**0.017**	**0.004**	**0.029**	**0.01**	**0.006**	**0.066**
05/13/99		**0.475**	**0.102**	**0.279**	**0.146**	**0.015**	**1.017**
08/24/99		**0.980**	**0.592**	**0.676**	**0.423**	**0.083**	**2.754**
11/30/99		**0.721**	**0.364**	**0.394**	**2.83**	**0.084**	**4.393**
03/03/00		**0.694**	**0.260**	**0.407**	**0.197**	**0.038**	**1.596**
05/16/00		**Not sampled due to presence of PSH**					
02/03/99	MW - 3	**0.512**	<0.004	<0.264	**0.071**	<0.004	**0.583**
05/13/99		**0.276**	<0.001	**0.173**	**0.043**	<0.001	**0.492**
08/24/99		**0.536**	**0.008**	**0.267**	**0.059**	**0.005**	**0.875**
11/30/99		**0.582**	**0.009**	**0.321**	**0.067**	<0.001	**0.979**
03/03/00		**0.309**	**0.003**	**0.201**	**0.035**	<0.001	**0.548**
05/16/00		**0.410**	**0.006**	**0.238**	**0.041**	<0.001	**0.695**
09/01/00		**0.402**	**0.003**	**0.248**	**0.040**	<0.001	**0.693**
11/21/00		**0.574**	**0.002**	**0.352**	**0.069**	<0.001	**0.997**
03/05/01		**0.560**	**0.002**	**0.29**	**0.046**	<0.001	**0.898**
05/17/01		**0.557**	<0.02	**0.283**	**0.0542**		**0.894**
08/27/01		**0.180**	<0.001	**0.0995**	**0.0107**	<0.001	**0.290**
10/24/01		**0.162**	<0.001	**0.131**	**0.0323**	<0.001	**0.325**
11/30/99	MW-4	**Not sampled due to presence of PSH**					
11/30/99	MW-5	**Not sampled due to presence of PSH**					
03/05/01	EB - 1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
05/17/01		<0.001	<0.001	<0.001	<0.001		<0.001
08/27/01		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
10/24/01		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

CONCENTRATIONS IN BOLD EXCEED DETECTION LIMITS

Table 2

GROUNDWATER ELEVATION & PSH THICKNESS DATA

EOTT Energy Pipeline, LP
TNM 97-18
Monument, New Mexico
ETGI Project # EOT2025C

All measurements are in feet

WELL LOCATION	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 1	02/03/99	3500.17		28.96		3471.21
	05/13/99			28.48		3471.69
	08/24/99			28.94		3471.23
	11/30/99			28.39		3471.78
	03/03/00			28.60		3471.57
	05/16/00			28.68		3471.49
	09/01/00			29.06		3471.11
	11/21/00			29.23		3470.94
	03/05/01		SHEEN	28.94		3471.23
	05/17/01			28.72		3471.45
	08/27/01			29.95		3470.22
	10/24/01			28.65		3471.52
MW - 2	02/03/99	3499.19		28.72		3470.47
	05/13/99			28.34		3470.85
	08/24/99			28.83		3470.36
	11/30/99			28.26		3470.93
	03/03/00			28.38		3470.81
	05/16/00		SHEEN	28.43		3470.76
	09/01/00		SHEEN	29.00		3470.19
	11/21/00		SHEEN	28.94		3470.25
	03/05/01		28.75	28.88	0.13	3470.42
	05/17/01		28.52	28.66	0.14	3470.65
	08/27/01		29.58	29.72	0.14	3469.59
	10/24/01		30.73	30.88	0.15	3468.44
MW - 3	02/03/99	3500.05		30.36		3469.69
	05/13/99			29.99		3470.06
	08/24/99			30.40		3469.65
	11/30/99			29.87		3470.18
	03/03/00			29.95		3470.10
	05/16/00			30.03		3470.02
	09/01/00			30.56		3469.49
	11/21/00			30.21		3469.84
	03/05/01			30.25		3469.80
	05/17/01			30.05		3470.00
	08/27/01			31.00		3469.05
	10/24/01			30.40		3469.65

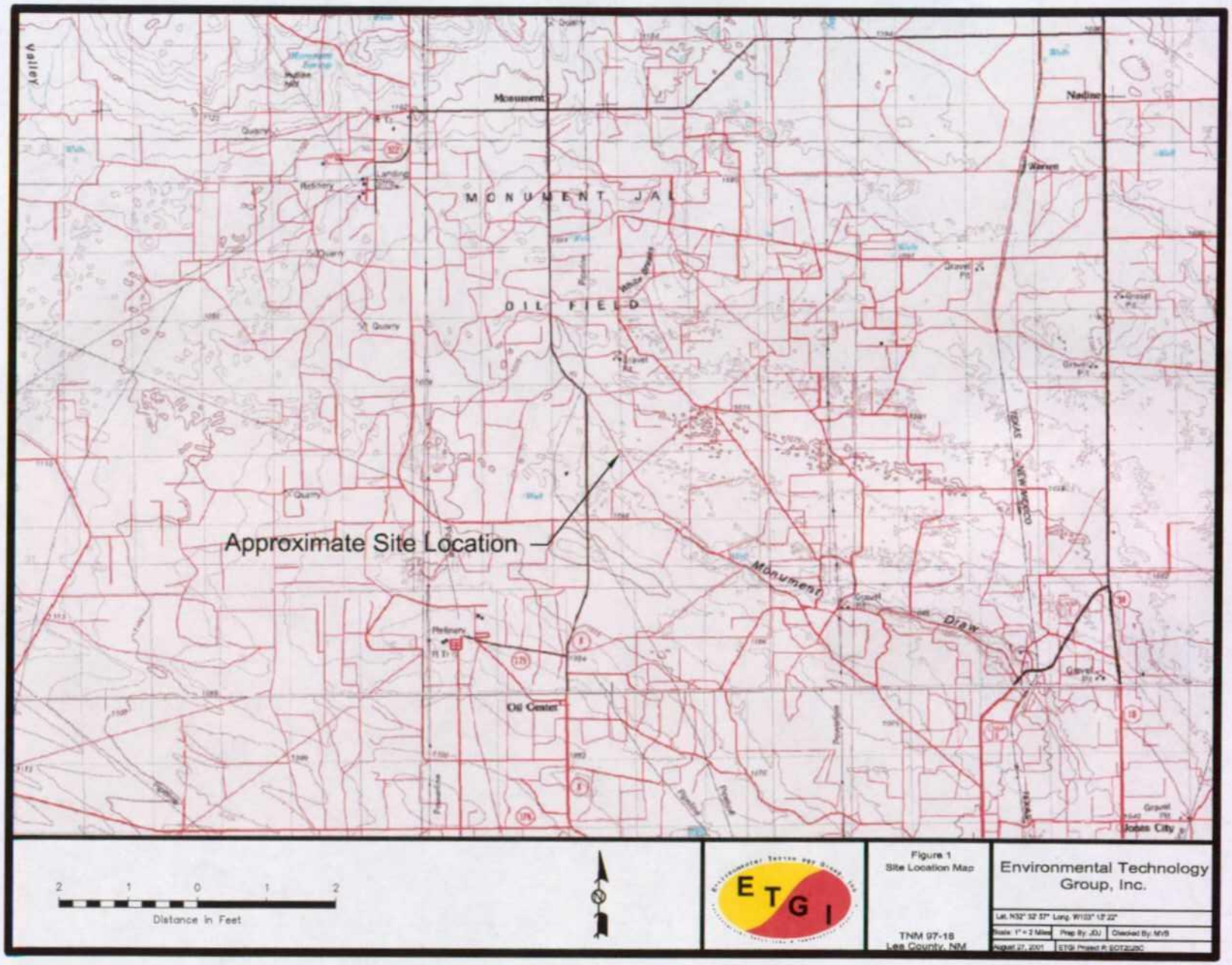
GROUNDWATER ELEVATION & PSH THICKNESS DATA

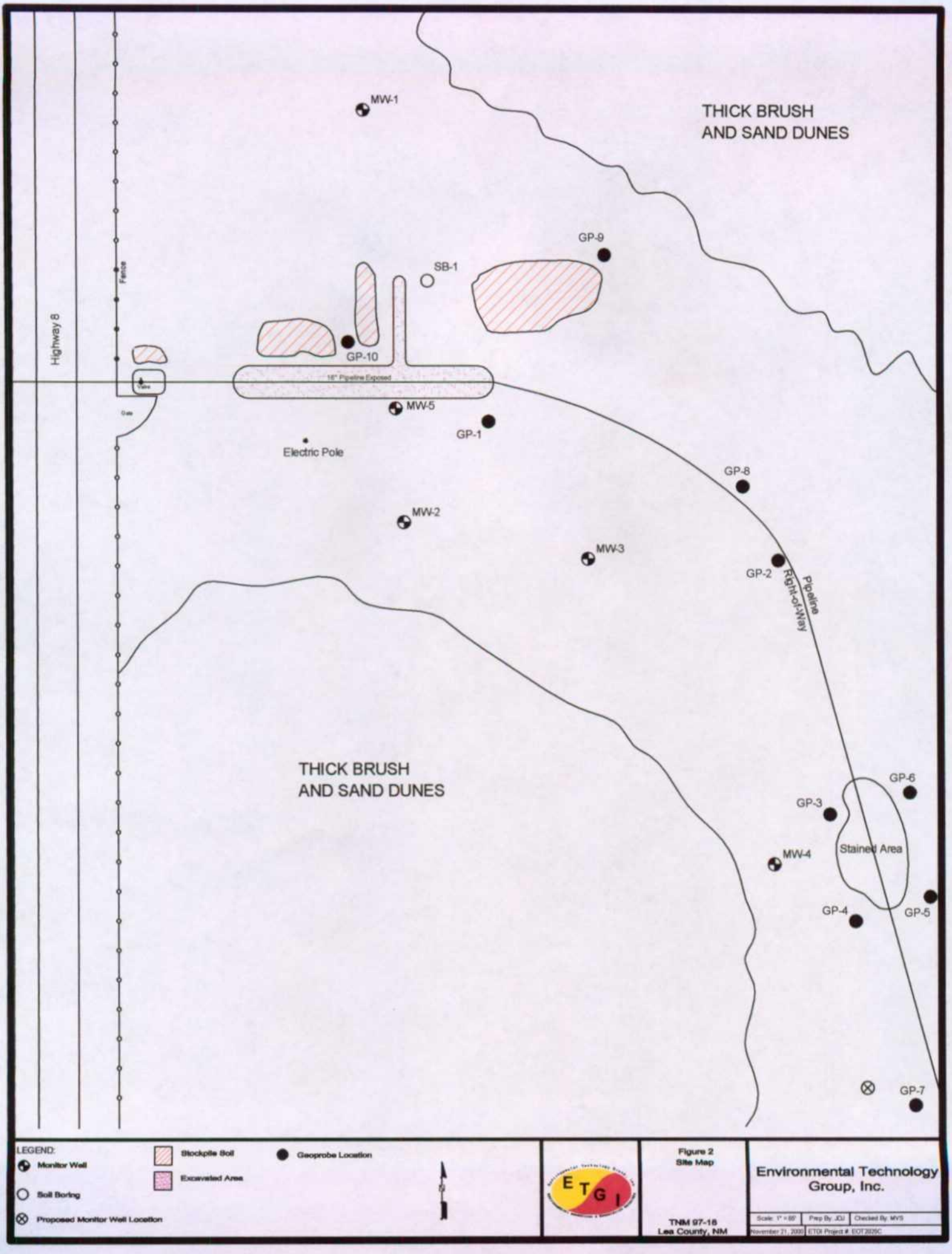
EOTT Energy Pipeline, LP
TNM 97-18
Monument, New Mexico
ETGI Project # EOT2025C

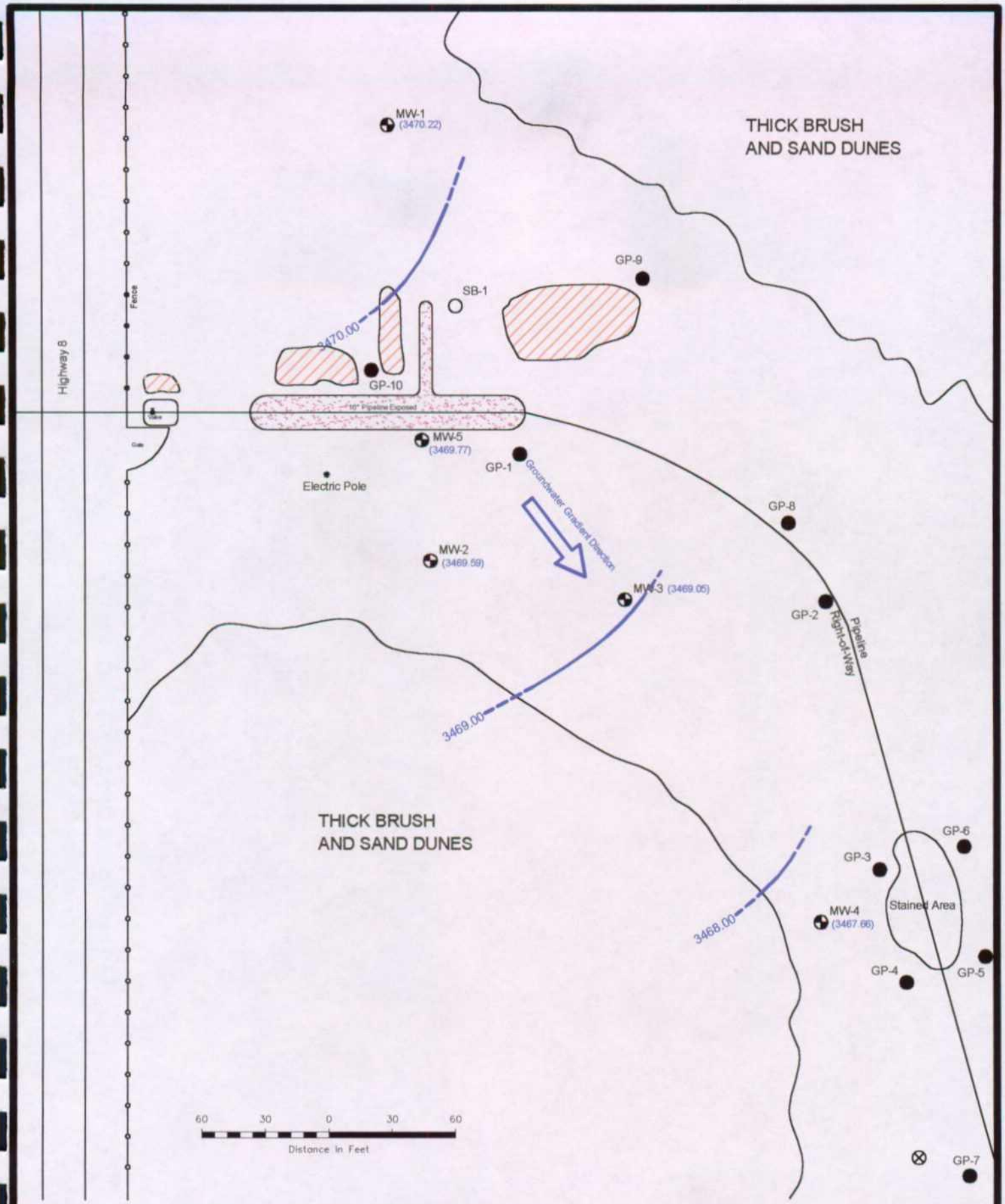
All measurements are in feet

WELL LOCATION	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW - 4	11/30/99	3498.38	29.16	31.36	2.20	3468.89
	03/03/00		29.55	30.28	0.73	3468.72
	05/16/00		29.56	30.33	0.77	3468.70
	09/01/00		30.11	31.24	1.13	3468.10
	10/06/00		30.48	31.71	1.23	3467.72
	11/21/00		30.21	31.56	1.35	3467.97
	03/05/01		29.66	31.52	1.86	3468.44
	05/17/01		29.42	31.31	1.89	3468.68
	08/27/01		30.46	32.21	1.75	3467.66
	10/24/01		29.91	31.28	1.37	3468.26
MW - 5	11/30/99	3500.12	28.44	32.05	3.61	3471.14
	03/03/00		28.90	30.26	1.36	3471.02
	05/16/00		28.94	30.31	1.37	3470.97
	09/01/00		29.47	30.36	0.89	3470.52
	10/06/00		30.03	30.47	0.44	3470.02
	11/21/00		29.46	32.06	2.60	3470.27
	03/05/01		29.17	31.64	2.47	3470.58
	05/17/01		28.73	32.68	3.95	3470.80
	08/27/01		30.15	31.48	1.33	3469.77
	10/24/01		28.50	35.60	7.10	3470.56

FIGURES


MONUMENT JAL
OIL FIELD
Approximate Site Location
Monument
Nadine
Oil Center
Jones City
Monument Draw
TEXAS
NEW MEXICO
2 1 0 1 2
Distance in Feet
ETGI
Figure 1
Site Location Map
TNM 97-16
Lea County, NM
Environmental Technology Group, Inc.
Lat. N32° 32' 57" Long. W103° 13' 22"
Scale: 1" = 2 Miles
Prep By: JDJ
Checked By: MVB
August 27, 2001
ETGI Project #: 607202BC


MW-1
THICK BRUSH
AND SAND DUNES
GP-9
SB-1
Fence
Highway 8
GP-10
16" Pipeline Exposed
Valve
Gate
MW-5
GP-1
Electric Pole
GP-8
MW-2
MW-3
GP-2
Pipeline
Right-of-Way
THICK BRUSH
AND SAND DUNES
GP-6
GP-3
Stained Area
MW-4
GP-4
GP-5
GP-7
LEGEND:
Monitor Well
Soil Boring
Proposed Monitor Well Location
Stockpile Soil
Excavated Area
Geoprobe Location
Figure 2
Site Map
TNM 97-18
Lea County, NM
Environmental Technology
Group, Inc.
Scale: 1" = 60'
Prep By: JDJ
Checked By: MVS
November 21, 2000
ETGI Project #: EOT2025C


MW-1
(3470.22)
THICK BRUSH
AND SAND DUNES
GP-9
SB-1
Fence
3470.00
Highway 8
GP-10
16" Pipeline Exposed
Gate
MW-5
(3469.77)
GP-1
Groundwater Gradient Direction
Electric Pole
GP-8
MW-2
(3469.59)
MW-3 (3469.05)
GP-2
Pipeline
Right-of-Way
3469.00
THICK BRUSH
AND SAND DUNES
GP-6
GP-3
Stained Area
MW-4
(3467.66)
3468.00
GP-4
GP-5
60 30 0 30 60
Distance In Feet
GP-7
LEGEND:
Monitor Well
Soil Boring
Proposed Monitor Well Location
Stockpile Soil
Excavated Area
Geoprobe Locations
Groundwater Gradient Contour
(3467.97) Groundwater Elevation (in feet)
E T G I
Figure 3
Site Groundwater
Gradient Map (8/27/01)
TNM 97-18
Lea County, NM
Environmental Technology
Group, Inc.
Scale: 1" = 60'
Prep By: JCU
Checked By: MVS
August 27, 2001
ETGI Project #: EOT2025C

APPENDICES

APPENDIX A

Laboratory Reports

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.
ATTN: MR. JESSE TAYLOR
P.O. B OX 4845
MIDLAND, TEXAS 79704
FAX: 520-4310
FAX: 505-397-4701

Sample Type: Water
Sample Condition: Intact/ Iced/ HCl/ -1.0 deg C
Project #: EOT 2025C
Project Name: TNM 97-18
Project Location: Lea County, N.M.

Sampling Date: 03/05/01
Receiving Date: 03/14/01
Analysis Date: 03/14/01

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
38141	MW 1	<0.001	<0.001	<0.001	<0.001	<0.001
38142	MW 3	0.560	0.002	0.290	0.046	<0.001
38143	EB 1	<0.001	<0.001	<0.001	<0.001	<0.001
%IA		91	93	96	102	96
%EA		95	97	100	106	101
BLANK		<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: EPA SW 846-8021B ,5030

Roland K Tuttle
Roland K. Tuttle

3-15-01
Date

COC # 031 Page of

Environmental Technology Group, Inc.

For Use On **EOTT ENERGY CORP.** *Projects Only*

4600 West Wall, Midland, TX 79703, Tel (915) 522-1139, Fax (915) 520-4310
2540 West Marland, Hobbs, NM 88242, Tel (505) 397-4882, Fax (505) 397-4701
EOTT ENERGY CORP, East Business 20, TX 79702, (915) 687-3400, (915) 582-2781
5805 Midland, Te Fax

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST
(Circle or Specify Method No.)

Project Manager: JESSE TAYLOR
EOTT Leak Number:
Project Name: MONUMENT 10
ETGI Project Number: EOT 2063C
Project Location: MONUMENT, NM
Sampler Signature: Simon Casas

LAB # (Lab Use Only)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATION METHOD: HCL	HNO_3	$NaHSO_4$	ICE	NONE	SAMPLING: DATE	TIME	BTEX 8021B/5030	TPH 418.1/TX 1005	TPH 8015M GRO/DRO	PAH 8270C (8100 New Mexico only)	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/7470	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	Volatiles 8260B	Semi Volatiles 8270C	TDS 160.1	Cations/Anions 375.4/325.3
38144	MW 1	2	X	X				X			X		3-7	1021	X											
145	MW 4	↓	↓	↓				↓			↓		↓	1000	↓											
146	MW 5													1045												
147	MW 6													1122												
148	MW 7													1107												
149	EB-1													1135												

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Simon Casas	3-14-01	0800		3/14/01	1200
Relinquished by:	Date:	Time:	Received at Lab by:	Date:	Time:
	3/14/01	1200		3/14/01	12:20

REMARKS:
FAX RESULTS: HOBBS OFFICE
MAIL RESULTS: EOTT
INVOICE: EOTT
-1.0°C

Summary Report

Ken Dutton
ETGI
2540 W. Marland
Hobbs, NM

Report Date: May 31, 2001

Order ID Number: A01052223

Project Number: EOT 2025C
Project Name: TNM 97-18
Project Location: Lea County NM

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
171703	MW-1	Water	5/17/01	14:00	5/22/01
171704	MW-3	Water	5/17/01	14:20	5/22/01
171705	EB-1	Water	5/17/01	14:25	5/22/01

This report consists of a total of 1 page(s) and is intended only as a summary of results for the sample(s) listed above.

	BTEX				
Sample - Field Code	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	M,P,O-Xylene (mg/L)	Total BTEX (mg/L)
171703 - MW-1	<0.005	<0.005	<0.005	<0.005	<0.005
171704 - MW-3	0.557	<0.02	0.283	0.0542	0.894
171705 - EB-1	<0.001	<0.001	<0.001	<0.001	<0.001

TRACEANALYSIS, INC.

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155 McCutcheon, Suite H El Paso, Texas 79932 888•588•3443 915•585•3443 FAX 915•585•4944
E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Ken Dutton
ETGI
2540 W. Marland
Hobbs, NM

Report Date: May 31, 2001

Order ID Number: A01052223

Project Number: EOT 2025C
Project Name: TNM 97-18
Project Location: Lea County NM

Enclosed are the Analytical Results and Quality Control Data Reports for the following samples submitted to Trace-Analysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
171703	MW-1	Water	5/17/01	14:00	5/22/01
171704	MW-3	Water	5/17/01	14:20	5/22/01
171705	EB-1	Water	5/17/01	14:25	5/22/01

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 5 pages and shall not be reproduced except in its entirety including the chain of custody (COC), without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Analytical Report

Sample: 171703 - MW-1

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC11548	Date Analyzed:	5/24/01
Analyst:	JW	Preparation Method:	E 5030B	Prep Batch:	PB09888	Date Prepared:	5/24/01

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.005	mg/L	5	0.001
Toluene		<0.005	mg/L	5	0.001
Ethylbenzene		<0.005	mg/L	5	0.001
M,P,O-Xylene		<0.005	mg/L	5	0.001
Total BTEX		<0.005	mg/L	5	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.485	mg/L	5	0.10	97	72 - 128
4-BFB		0.363	mg/L	5	0.10	72	72 - 128

Sample: 171704 - MW-3

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC11548	Date Analyzed:	5/24/01
Analyst:	JW	Preparation Method:	E 5030B	Prep Batch:	PB09888	Date Prepared:	5/24/01

Param	Flag	Result	Units	Dilution	RDL
Benzene		0.557	mg/L	20	0.001
Toluene		<0.02	mg/L	20	0.001
Ethylbenzene		0.283	mg/L	20	0.001
M,P,O-Xylene		0.0542	mg/L	20	0.001
Total BTEX		0.894	mg/L	20	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		2	mg/L	20	0.10	100	72 - 128
4-BFB		1.66	mg/L	20	0.10	83	72 - 128

Sample: 171705 - EB-1

Analysis:	BTEX	Analytical Method:	S 8021B	QC Batch:	QC11548	Date Analyzed:	5/24/01
Analyst:	JW	Preparation Method:	E 5030B	Prep Batch:	PB09888	Date Prepared:	5/24/01

Param	Flag	Result	Units	Dilution	RDL
Benzene		<0.001	mg/L	1	0.001
Toluene		<0.001	mg/L	1	0.001
Ethylbenzene		<0.001	mg/L	1	0.001
M,P,O-Xylene		<0.001	mg/L	1	0.001
Total BTEX		<0.001	mg/L	1	0.001

Continued ...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.1	mg/L	1	0.10	100	72 - 128
4-BFB		0.0761	mg/L	1	0.10	76	72 - 128

Quality Control Report
Method Blank

Method Blank

QCBatch: QC11548

Param	Flag	Results	Units	Reporting Limit
Benzene		<0.001	mg/L	0.001
Toluene		<0.001	mg/L	0.001
Ethylbenzene		<0.001	mg/L	0.001
M,P,O-Xylene		<0.001	mg/L	0.001
Total BTEX		<0.001	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0966	mg/L	1	0.10	96	72 - 128
4-BFB		0.0729	mg/L	1	0.10	72	72 - 128

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes

QCBatch: QC11548

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
MTBE	0.101	0.0992	mg/L	1	0.10	<0.001	101	1	80 - 120	20
Benzene	0.107	0.106	mg/L	1	0.10	<0.001	107	0	80 - 120	20
Toluene	0.107	0.106	mg/L	1	0.10	<0.001	107	0	80 - 120	20
Ethylbenzene	0.106	0.105	mg/L	1	0.10	<0.001	106	0	80 - 120	20
M,P,O-Xylene	0.31	0.307	mg/L	1	0.30	<0.001	103	0	80 - 120	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dilution	Spike Amount	LCS % Rec	LCSD % Rec	Recovery Limits
TFT	0.104	0.0984	mg/L	1	0.10	104	98	72 - 128
4-BFB	0.109	0.103	mg/L	1	0.10	109	103	72 - 128

Quality Control Report
Continuing Calibration Verification Standards

CCV (1)

QCBatch: QC11548

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.104	104	85 - 115	5/24/01
Benzene		mg/L	0.10	0.107	107	85 - 115	5/24/01

Continued ...

... Continued

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Toluene		mg/L	0.10	0.106	106	85 - 115	5/24/01
Ethylbenzene		mg/L	0.10	0.106	106	85 - 115	5/24/01
M,P,O-Xylene		mg/L	0.30	0.307	102	85 - 115	5/24/01

CCV (2)

QCBatch: QC11548

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.102	102	85 - 115	5/24/01
Benzene		mg/L	0.10	0.11	110	85 - 115	5/24/01
Toluene		mg/L	0.10	0.108	108	85 - 115	5/24/01
Ethylbenzene		mg/L	0.10	0.108	108	85 - 115	5/24/01
M,P,O-Xylene		mg/L	0.30	0.312	104	85 - 115	5/24/01

ICV (1)

QCBatch: QC11548

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.102	102	85 - 115	5/24/01
Benzene		mg/L	0.10	0.107	107	85 - 115	5/24/01
Toluene		mg/L	0.10	0.108	108	85 - 115	5/24/01
Ethylbenzene		mg/L	0.10	0.107	107	85 - 115	5/24/01
M,P,O-Xylene		mg/L	0.30	0.314	104	85 - 115	5/24/01

Page ____ of ____

961

6701 Aberdeen Avenue, Ste. 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

TraceAnalysis, Inc.

155 McCutcheon, Suite H
El Paso, Texas 79932
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # A0105223

Company Name: ETGI
Phone #: (505) 397-4882
Address: (Street, City, Zip) 2540 W MARLAND HOBBS NM 88260
Fax #: (505) 397-4701
Contact Person: KEN DUTTON
Invoice to: (If different from above) EOTT
Project #: EOT 2025C
Project Name: TNM 97-18
Project Location: LEA COUNTY NM
Sampler Signature: Simon Casas

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8270C	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/624	GC/MS Semi. Vol. 8270C/625	PCB's 8082/608	Pesticides 8081A/608	BOD, TSS, pH	Turn Around Time if different from standard	Hold
1703	MW 1	2	✓	X				X				X		5-17	1400		X															
704	MW 3														1420																	
705	EB 1														1435																	
706																																

Relinquished by: Simon Casas Date: 5-21-01 Time: 1300
Received by: Jodal Bj Date: 5-21-01 Time: 8:20
Relinquished by: Date: Time:
Received by: Date: Time:
Relinquished by: Date: Time:
Received at Laboratory by: Vicki Quasy Date: 5-22-01 Time: 10:00

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C.O.C.

LAB USE ONLY
Intact (Y / N)
Headspace Y / N
Temp 4 °
Log-in Review MA

REMARKS: 4/1/0

☐ Check If Special Reporting Limits Are Needed

Carrier # Bus. 902591 5 of 8

AnalySys Inc.
4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs Nm 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 118894 **Report Date:** 09/10/01
Project ID: TNM 97-18 EOT 2025C
Sample Name: MW 1
Sample Matrix: water
Date Received: 08/31/2001 **Time:** 10:55
Date Sampled: 08/27/2001 **Time:** 15:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		09/06/01	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	09/06/01	8260b	---	1.7	100.1	96.7	96.8
Ethylbenzene	<1	µg/L	1	<1	09/06/01	8260b	---	1.8	97.7	102.5	100.6
m,p-Xylenes	<1	µg/L	1	<1	09/06/01	8260b	---	1.7	100.5	104.4	103.7
o-Xylene	<1	µg/L	1	<1	09/06/01	8260b	---	1.4	103.7	107.8	107
Toluene	<1	µg/L	1	<1	09/06/01	8260b	---	0.1	102.6	100.4	98.1

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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

2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: TNM 97-18 EOT 2025C
Sample Name: MW 1

Report#/Lab ID#: 118894
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	80.8	80-120	---
Toluene-d8	8260b	101	88-110	---

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

ANALYSYS INC.

4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs Nm 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 118895 **Report Date:** 09/10/01
Project ID: TNM 97-18 EOT 2025C
Sample Name: MW 3
Sample Matrix: water
Date Received: 08/31/2001 **Time:** 10:55
Date Sampled: 08/27/2001 **Time:** 15:52

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		09/06/01	8260b	---	---	---	---	---
Benzene	180	µg/L	1	<1	09/06/01	8260b	---	1.7	100.1	96.7	96.8
Ethylbenzene	99.5	µg/L	1	<1	09/06/01	8260b	---	1.8	97.7	102.5	100.6
m,p-Xylenes	10.7	µg/L	1	<1	09/06/01	8260b	---	1.7	100.5	104.4	103.7
o-Xylene	<1	µg/L	1	<1	09/06/01	8260b	---	1.4	103.7	107.8	107
Toluene	<1	µg/L	1	<1	09/06/01	8260b	---	0.1	102.6	100.4	98.1

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

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[redacted] Freid[redacted] Lane[redacted] 19[redacted]stin, [redacted] 787[redacted]
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group **Attn:** Ken Dutton	**Project ID:** TNM 97-18 EOT 2025C **Sample Name:** MW 3	**Report#/Lab ID#:** 118895 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	88.5	80-120	---
Toluene-d8	8260b	98.9	88-110	---

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

AnalySys Inc.
4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
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(512) 444-5896 • . FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs Nm 88240

Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: *118896* ***Report Date:*** 09/10/01
Project ID: TNM 97-18 EOT 2025C
Sample Name: EB-1
Sample Matrix: water
Date Received: 08/31/2001 **Time:** 10:55
Date Sampled: 08/27/2001 **Time:** 16:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		09/06/01	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	09/06/01	8260b	---	1.7	100.1	96.7	96.8
Ethylbenzene	<1	µg/L	1	<1	09/06/01	8260b	---	1.8	97.7	102.5	100.6
m,p-Xylenes	<1	µg/L	1	<1	09/06/01	8260b	---	1.7	100.5	104.4	103.7
o-Xylene	<1	µg/L	1	<1	09/06/01	8260b	---	1.4	103.7	107.8	107
Toluene	<1	µg/L	1	<1	09/06/01	8260b	---	0.1	102.6	100.4	98.1

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

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CHEMSYS INC.
[redacted] 190[redacted]tin, [redacted] 78744-[redacted]
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: TNM 97-18 EOT 2025C
Sample Name: EB-1

Report#/Lab ID#: 118896
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	84.5	80-120	---
Toluene-d8	8260b	99	88-110	---

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

CHAIN-OF-CUSTODY

Co 119

AnalySys INC.
4221 Freidrich Lane, Suite 190, Austin, TX 7874
(512) 444-5896

Send Reports To:
Company Name ETGT
Address 2540 W MARLAND
City HOBBS State NM Zip 88240
ATTN: KEN DUTTON
Phone (505) 397-4882 Fax (505) 397 4701

Bill to (if different):
Company Name EOTT
Address
City State Zip
ATTN:
Phone Fax

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: TNM 97-18 EOT 2025C Sampler: Simon Casas

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8021B	Comments
MW 1	8-27-01	1530	2		X		118894	X	
MW 3	↓	1552	↓		↓		118895	↓	
EB-1	↓	1615	↓		↓		118896	↓	

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants o ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp. 1.3°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Simon Casas		8-30-01	1430	[illegible]	ASI	8-31-01	10:55

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

TABLE 2

GROUND WATER CHEMISTRY
3RD QUARTER 2001

EOTT ENERGY CORPORATION
TNM 97 - 18
LEA COUNTY, NEW MEXICO
ETGI PROJECT # EOT 2025C

All concentrations are in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	M,P,0-XYLENES	TOTAL BTEX
MW - 1	08/27/01	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 3	08/27/01	0.180	<0.100	0.020	<0.001	0.200
EB - 1	08/27/01	<0.001	<0.001	<0.001	<0.001	<0.001

ANALYSYS INC.

4221 Freidrich Lane, Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Matina Smith
Address: 4600 W. Wall
Midland, TX 79703

Phone: (915) 522-1139 **FAX:** (915) 520-4310

COPY

Report#/Lab ID#: 121350 **Report Date:** 11/02/01
Project ID: TNM 97-18 EOT 2025C
Sample Name: MW 1
Sample Matrix: water
Date Received: 10/26/2001 **Time:** 10:01
Date Sampled: 10/24/2001 **Time:** 08:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		11/01/01	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/01/01	8260b	---	0.2	81.4	89.5	79.6
Ethylbenzene	<1	µg/L	1	<1	11/01/01	8260b	---	0.3	101.2	99.9	95.5
m,p-Xylenes	<1	µg/L	1	<1	11/01/01	8260b	J	0.4	95	92.8	89.6
o-Xylene	<1	µg/L	1	<1	11/01/01	8260b	---	0	102.7	101.4	97.9
Toluene	<1	µg/L	1	<1	11/01/01	8260b	---	0.1	87.8	92.9	84.1

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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

ANALYSYS INC.

4221 Freidrich Lane,Suite 190, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 7840408
(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group **Attn:** Matina Smith	**Project ID:** TNM 97-18 EOT 2025C **Sample Name:** MW 1	**Report#/Lab ID#:** 121350 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	96.3	80-120	---
Toluene-d8	8260b	109	88-110	---

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

Exceptions Report:

Report #/Lab ID#: 121350 **Matrix:** water
Client: Environmental Tech Group **Attn:** Matina Smith
Project ID: TNM 97-18 EOT 2025C
Sample Name: MW 1

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
m,p-Xylenes	J	See J-flag discussion above.

Notes:

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Client: Environmental Tech Group
Attn: Matina Smith
Address: 4600 W. Wall
Midland, TX 79703

Phone: (915) 522-1139 **FAX:** (915) 520-4310

Report#/Lab ID#: 121351 **Report Date:** 11/02/01
Project ID: TNM 97-18 EOT 2025C
Sample Name: MW 3
Sample Matrix: water
Date Received: 10/26/2001 **Time:** 10:01
Date Sampled: 10/24/2001 **Time:** 08:50

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		11/02/01	8260b	---	---	---	---	---
Benzene	162	µg/L	1	<1	11/02/01	8260b	---	6.1	80.1	83.7	77.3
Ethylbenzene	131	µg/L	1	<1	11/02/01	8260b	---	2.8	100.4	102.1	100.9
m,p-Xylenes	32.3	µg/L	1	<1	11/02/01	8260b	---	2.2	93.3	95.7	94.4
o-Xylene	<1	µg/L	1	<1	11/02/01	8260b	---	3.1	102.9	103.4	103.9
Toluene	<1	µg/L	1	<1	11/02/01	8260b	---	10.8	86.2	88.5	82.4

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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

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Client: Environmental Tech Group **Attn:** Matina Smith	**Project ID:** TNM 97-18 EOT 2025C **Sample Name:** MW 3	**Report#/Lab ID#:** 121351 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	94	80-120	---
Toluene-d8	8260b	107	88-110	---

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

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Matina Smith
Address: 4600 W. Wall
Midland, TX 79703

Phone: (915) 522-1139 **FAX:** (915) 520-4310

Report#/Lab ID#: 121352 **Report Date:** 11/02/01
Project ID: TNM 97-18 EOT 2025C
Sample Name: EB 1
Sample Matrix: water
Date Received: 10/26/2001 **Time:** 10:01
Date Sampled: 10/24/2001 **Time:** 09:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA[1]

Parameter	Result	Units	RQL[5]	Blank	Date	Method[6]	Data Qual[7]	Prec.[2]	Recov.[3]	CCV[4]	LCS[4]
Volatile organics-8260b/BTEX	---		---		11/01/01	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/01/01	8260b	---	0.2	81.4	89.5	79.6
Ethylbenzene	<1	µg/L	1	<1	11/01/01	8260b	---	0.3	101.2	99.9	95.5
m,p-Xylenes	<1	µg/L	1	<1	11/01/01	8260b	---	0.4	95	92.8	89.6
o-Xylene	<1	µg/L	1	<1	11/01/01	8260b	---	0	102.7	101.4	97.9
Toluene	<1	µg/L	1	<1	11/01/01	8260b	---	0.1	87.8	92.9	84.1

This analytical report is respectfully submitted by AnalySys, Inc. The enclosed results have been carefully reviewed and, to the best of my knowledge, the analytical results are consistent with AnalySys, Inc.'s Quality Assurance/Quality Control Program.

Respectfully Submitted,

Richard Laster

Richard Laster

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

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Client: Environmental Tech Group
Attn: Matina Smith

Project ID: TNM 97-18 EOT 2025C
Sample Name: EB 1

Report#/Lab ID#: 121352
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	94.7	80-120	---
Toluene-d8	8260b	104	88-110	---

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

COC: 165

CHAIN-OF-CUSTODY

ANALYSYS INC.
4221 Freidrich Lane, Suite 190, Austin, TX 78744
Phone: (512) 444-5896
Fax: (512) 447-4766

#498

Send Reports To:
Company Name E.T.G.I.
Address 4600 West Wall
City Midland State TX Zip 79703
ATTN: Anthony Smith
Phone (915) 522 1139 Fax (915) 520-4310

Bill to (if different):
Company Name EOTT
Address
City State Zip
ATTN:
Phone Fax

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: TNM 97-18 EOT 20025C Sampler: Simon Casas

Analyses Requested (1)
Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)	BTEX 8021B	Comments
MW 1	10-24	0830	2		X		121350	X	
MW 3		0850					121351		
EB 1		0900					121352		

(1)Unless specifically requested otherwise on this Chain-of-custody and/or attached documentation, all analyses will be conducted using ASI's method of choice and all data will be reported to ASI's normal reporting limits (MDL/PQL). For GC/MS volatiles and extractables, unless specific analytical parameter lists are specified on this chain-of-custody or attached to this chain-of-custody, ASI will default to Priority Pollutants or ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp 0.0°C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Simon Casas	ETGI	10-25-01	1500	Melanie Humphrey	ASI	10/26/01	1001

[Tendering of above described samples to AnalySys, Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

APPENDIX B

2001 Groundwater Elevations

APPENDIX B
2001 Groundwater Elevations
TNM 97-18