AP - 017

ANNUAL MONITORING REPORT

YEAR(S): 2001

AP 17

ANNUAL GROUNDWATER MONITORING REPORT

EOTT ENERGY PIPELINE, LP
TNM 97-17
MONUMENT, NEW MEXICO

RECEIVED
DEC 0 6 2001
Environmental Bureau
Oil Conservation Division

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

ETGI Project #EOT2024C

Prepared by:
Environmental Technology Group, Inc.
4600 West Wall Street
Midland, Texas 79703

November 2001

Matina V. Smith
Geologist/Sr. Project Manager

Glenn Waldrop
Vice President

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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 level 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: February 22, 2001; April 17, 2001; August 8, 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 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 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 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 February 2001 Sampling Event

Laboratory analysis indicates that BTEX concentrations on February 22, 2001 were the below detection limit of <0.001 mg/L for all monitor wells sampled. Monitor well MW-4 was not sampled due to the presence of PSH. Approximately 1.54 feet of oil was measured in this well. The groundwater elevations, in relation to mean sea level, measured on this date ranged between 3487.68 feet at monitor well MW-3 to 3488.36 feet at monitor well MW-1.

3.2 May 2001 Sampling Event

BTEX concentrations sampled on May 17, 2001 were below detection limits (<0.001 mg/L) for monitor wells MW-1, MW-2, and MW-3. Monitor well MW-4 contained 2.19 feet of oil therefore it was not sampled. The groundwater elevations, in relation to mean sea level, measured on this date ranged between 3487.93 feet at monitor well MW-2 to 3488.61 feet at monitor well MW-1.

3.3 August 2001 Sampling Event

During the August 8, 2001 sampling event, BTEX concentrations for monitor wells MW-1, MW-2, and MW-3 were all below the detection limit of <0.001 mg/L. Approximately 2.10 feet of oil was measured in monitor well MW-4. The groundwater elevations, in relation to mean sea level, ranged between 3487.02 feet at monitor well MW-2 to 3487.56 feet at monitor well MW-1.

3.3 October 2001 Sampling Event

Laboratory results for the October 24, 2001 sampling event indicate that BTEX concentrations for all monitor wells sampled were below detection limits (<0.001 mg/L). Monitor well MW-4 was not sampled due to 1.81 feet of oil measured in the well. The groundwater elevations, in relation to mean sea level, measured on this date ranged between 3487.64 feet in monitor well MW-3 to 3488.32 feet in monitor well MW-1.

4.0 GROUNDWATER GRADIENT

Groundwater elevation contours, generated from the final quarterly sampling event of calendar year 2001 water level measurements, indicated a general gradient of approximately 0.003 ft/ft to the southeast. Groundwater elevation data is provided in Table 2 and a groundwater gradient map for October 24, 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 well MW-4 located in the source area. 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
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

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New Mexico Oil Conservation Division (District 1)
1625 French Drive
Hobbs, New Mexico 88240

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Enron Transportation and Services Company
P.O. Box 1188 (3AC3143)
Houston, Texas 77251-1188

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Midland, Texas 79701-1660

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P.O. Box 4666
Houston, Texas 77210-4666

Copy 7: Environmental Technology Group, Inc.
4600 West Wall Street
Midland, Texas 79703

Copy 8: Environmental Technology Group, Inc.
2540 West Marland
Hobbs, New Mexico 88240

TABLES

Table 1

CONCENTRATIONS OF BTEX IN GROUNDWATER

EOTT Energy Pipeline, LP
TNM 97-17
Monument, New Mexico
ETGI Project # EOT2024C

All concentrations are in mg/L

SAMPLE DATE	SAMPLE LOCATION	SW 846-8021B, SW846-8260B					
		BENZENE	TOLUENE	ETHYL-BENZENE	M,P-XYLENES	O-XYLENES	BTEX
3/3/00	MW-1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4/11/00		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/1/00		<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
2/22/01		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
5/17/01		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/8/01		<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
3/3/00	MW-2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4/11/00		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/1/00		<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
2/22/01		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
5/17/01		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
8/8/01		<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
3/3/00	MW-3	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
4/11/00		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
9/1/00		<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
2/22/01		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
5/17/01		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/8/01		<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
2/22/01	EB-1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
5/17/01		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
8/8/01		<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

Table 2

GROUNDWATER ELEVATION & PSH THICKNESS DATA
EOTT Energy Pipeline, LP
Monument, New Mexico
ETGI Project # EOT2024C

All measurements are in feet

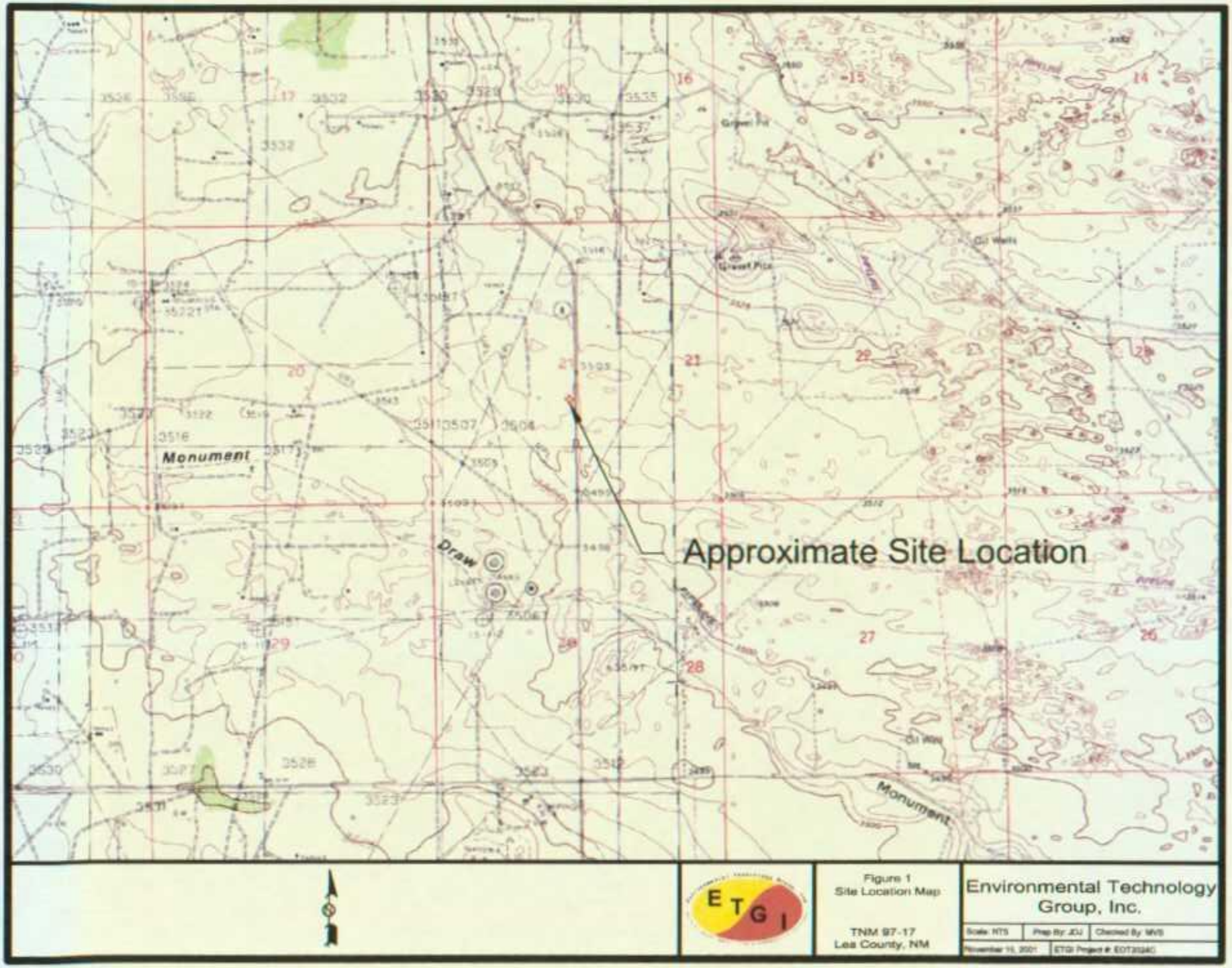
WELL LOCATION	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-1	02/03/99	3510.90		22.46		3488.44
	05/13/99			22.11		3488.79
	08/24/99			23.09		3487.81
	11/05/99			22.60		3488.30
	03/03/00			22.33		3488.57
	04/11/00			22.31		3488.59
	09/01/00			23.43		3487.47
	11/21/00			23.10		3487.80
	02/22/01			22.54		3488.36
	05/17/01			22.29		3488.61
	08/08/01			23.34		3487.56
	10/24/01			22.58		3488.32
MW-2	02/03/99	3509.23		21.47		3487.76
	05/13/99			21.11		3488.12
	08/24/99			21.88		3487.35
	11/05/99			21.51		3487.72
	03/03/00			21.35		3487.88
	04/11/00			21.31		3487.92
	09/01/00			22.23		3487.00
	11/21/00			22.05		3487.18
	02/22/01			21.52		3487.71
	05/17/01			21.30		3487.93
	08/08/01			22.21		3487.02
	10/24/01			21.54		3487.69
MW-3	02/03/99	3508.82		21.06		3487.76
	05/13/99			20.72		3488.10
	08/24/99			21.43		3487.39
	11/05/99			21.10		3487.72
	03/03/00			20.95		3487.87
	04/11/00			20.91		3487.91
	09/01/00			21.80		3487.02
	11/21/00			21.65		3487.17
	02/22/01			21.14		3487.68
	05/17/01			20.87		3487.95
	08/08/01			21.72		3487.10
	10/24/01			21.18		3487.64
MW-4	11/05/99	3509.15	20.96	21.92	0.96	3488.05
	03/03/00		20.71	22.10	1.39	3488.23
	04/11/00		20.71	22.10	1.39	3488.23
	09/01/00		21.81	21.95	0.14	3487.32

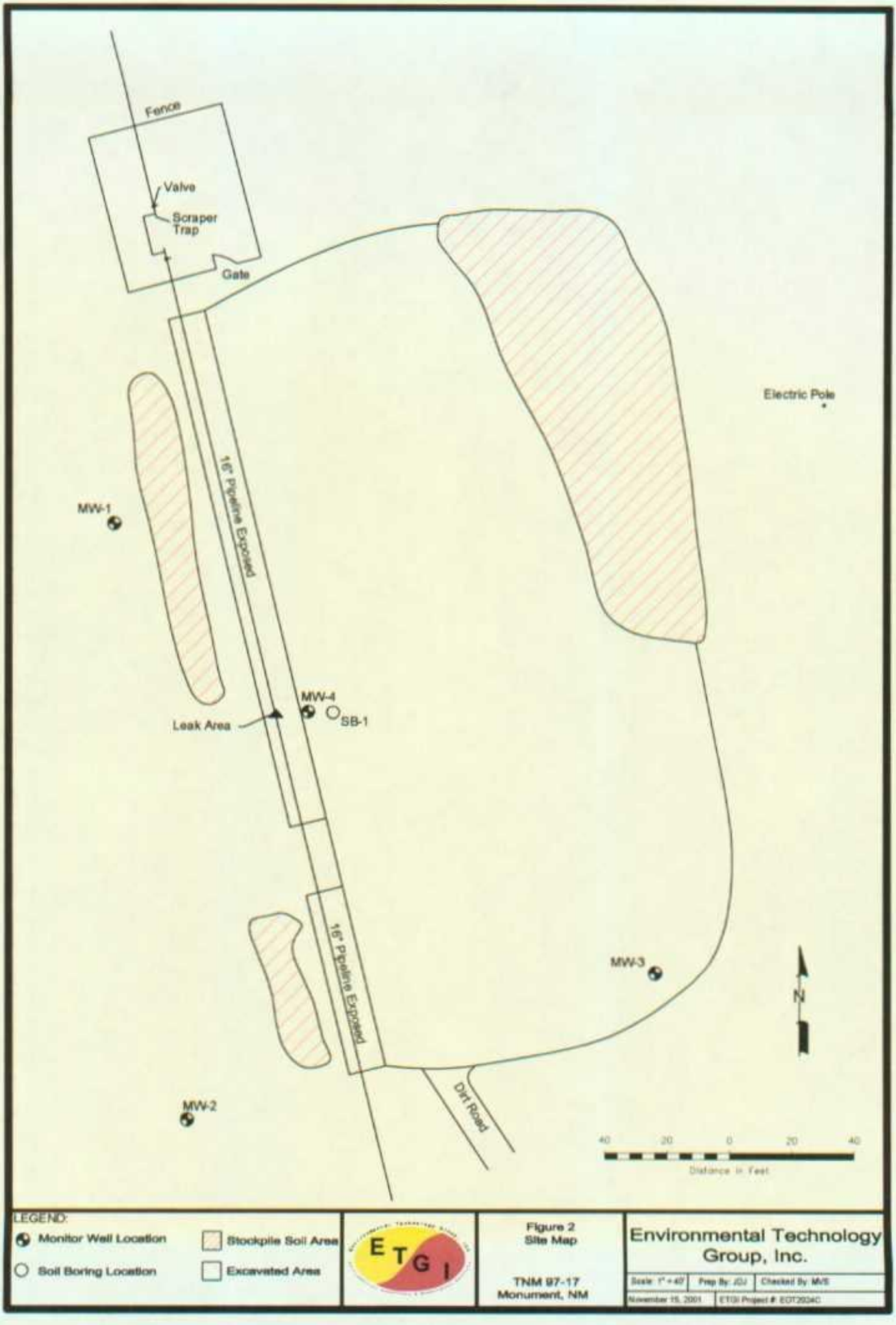
GROUNDWATER ELEVATION & PSH THICKNESS DATA
EOTT Energy Pipeline, LP
Monument, New Mexico
ETGI Project # EOT2024C

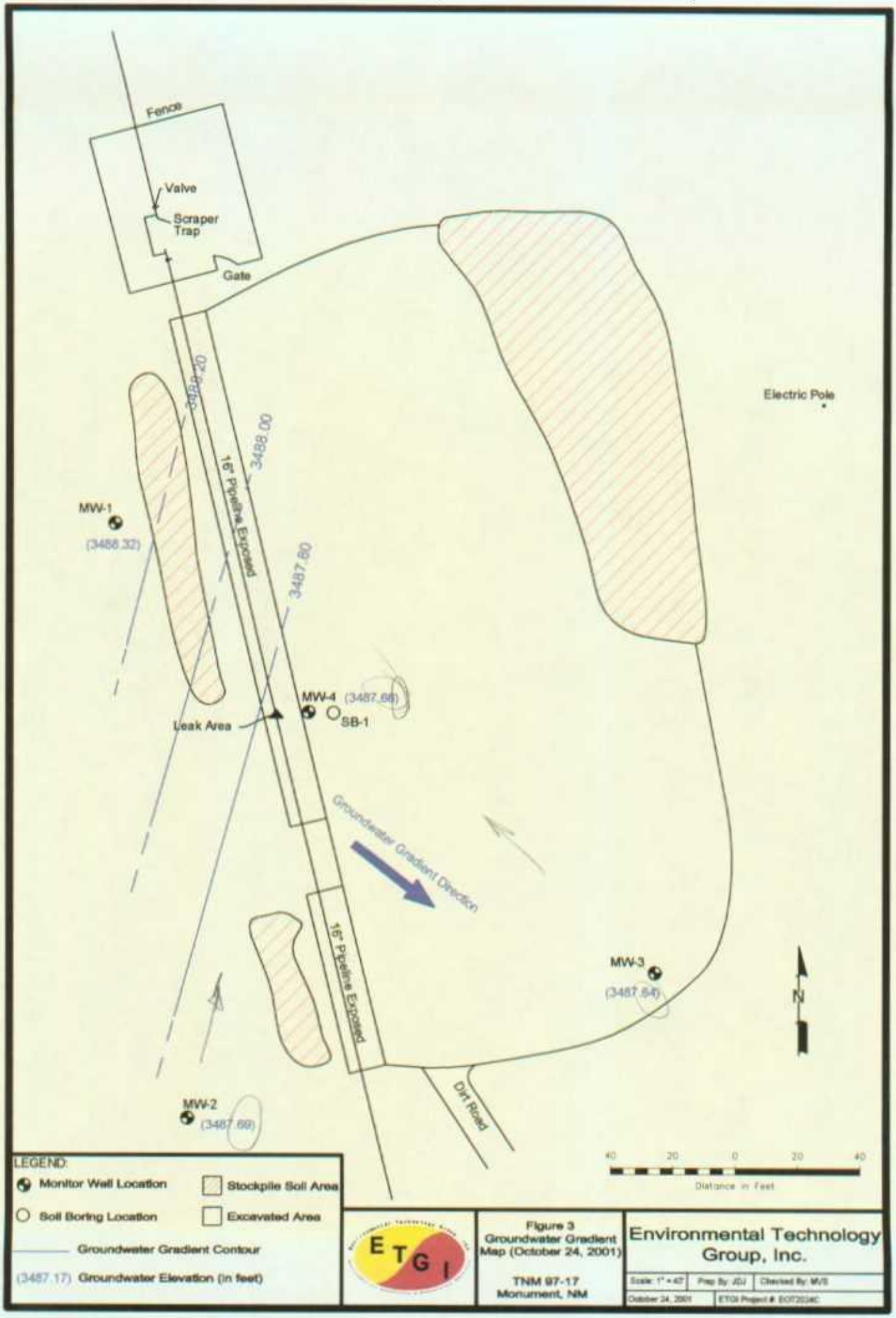
All measurements are in feet

WELL LOCATION	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
	11/21/00		21.51	22.42	0.91	3487.50
	02/22/01		20.99	22.55	1.56	3487.93
	05/17/01		20.70	22.89	2.19	3488.12
	08/08/01		21.54	23.64	2.10	3487.30
	10/24/01		21.02	22.83	1.81	3487.86

FIGURES


Approximate Site Location
Monument
Draw
Monument
Figure 1
Site Location Map
TNM 97-17
Lea County, NM
Environmental Technology Group, Inc.


Fence
Valve
Scraper Trap
Gate
Electric Pole
16" Pipeline Exposed
MW-1
MW-4
SB-1
Leak Area
16" Pipeline Exposed
MW-3
MW-2
Dirt Road
N
40 20 0 20 40
Distance in Feet
LEGEND:
Monitor Well Location
Soil Boring Location
Stockpile Soil Area
Excavated Area
E T G I
Figure 2
Site Map
TNM 97-17
Monument, NM
Environmental Technology Group, Inc.
Scale: 1" = 40'
Prep By: JDJ
Checked By: MVE
November 15, 2001
ETGI Project #: EOT2034C


Fence
Valve
Scraper Trap
Gate
Electric Pole
3488.20
3488.00
3487.80
16" Pipeline Exposed
MW-1
(3488.32)
MW-4 (3487.66)
SB-1
Leak Area
Groundwater Gradient Direction
16" Pipeline Exposed
MW-3
(3487.64)
MW-2
(3487.69)
Dirt Road
N
40 20 0 20 40
Distance in Feet
LEGEND:
Monitor Well Location
Soil Boring Location
Groundwater Gradient Contour
(3487.17) Groundwater Elevation (in feet)
Stockpile Soil Area
Excavated Area
ETGI
Figure 3
Groundwater Gradient Map (October 24, 2001)
TNM 97-17
Monument, NM
Environmental Technology Group, Inc.
Scale: 1" = 40'
Prep By: JDJ
Checked By: MVS
October 24, 2001
ETGI Project # EOT20246

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 4648
MIDLAND, TEXAS 79704
FAX: 505-397-4701
FAX: 915-520-4310

Sample Type: Water
Sample Condition: Intact/ Iced/ HCl/ -0.5 deg C
Project #: EOT 2024C
Project Name: TNM 97-17
Project Location: Monument, N.M.

Sampling Date: 02/22/01
Receiving Date: 03/02/01
Analysis Date: 03/02/01

ELT #	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
37841	MW 1	<0.001	<0.001	<0.001	<0.001	<0.001
37842	MW 2	<0.001	<0.001	<0.001	<0.001	<0.001
37843	MW 3	<0.001	<0.001	<0.001	<0.001	<0.001
37844	EB 1	<0.001	<0.001	<0.001	<0.001	<0.001
	%IA	94	99	105	109	103
	%EA	90	94	98	102	99
	BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: EPA SW 846-8021B ,5030

Raland K. Tuttle

3-5-01
Date

Environmental Technology Group, Inc.

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

4600 West Wall
Midland, TX 79703
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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) 687-2400
(915) 582-2781

5605
Midland,
Tel
Fax

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST
(Circle or Specify Method No.)

Project Manager: JESSE TAYLOR
EOTT Leak Number:
Project Name: TNM 97-17
ETGI Project Number: EOT 2024 C
Project Location: MONUMENT NM
Sampler Signature: Simon Lara

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/602
37841	MW 1	2	✓	X				X			X		2-22	1425	X
37842	MW 2	↓	↓	↓				↓			↓		↓	1442	↓
37843	MW 3	↓	↓	↓				↓			↓		↓	1405	↓
37844	EB1	↓	↓	↓				↓			↓		↓	1505	↓

Columns: 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

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Simon Lara	3-2-01	1505			
Relinquished by:	Date:	Time:	Received at Lab by:	Date:	Time:
			Amanda Sanchez	3-2-01	1505

REMARKS:
FAX RESULTS: HOBBS OFFICE
MAIL RESULTS: EOTT
INVOICE: EOTT
-0.5°C

Summary Report

Ken Dutton
ETGI
2540 W. Marland
Hobbs, NM

Report Date: June 6, 2001

Order ID Number: A01052219

Project Number: EOT 2024C
Project Name: TNM 97-17
Project Location: Lea County, NM

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
171689	MW-1	Water	5/17/01	11:30	5/22/01
171690	MW-2	Water	5/17/01	11:46	5/22/01
171691	MW-3	Water	5/17/01	12:00	5/22/01
171692	EB1	Water	5/17/01	12:15	5/22/01

This report consists of a total of 2 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)
171689 - MW-1	<0.001	<0.001	<0.001	<0.001	<0.001
171690 - MW-2	<0.005	<0.005	<0.005	<0.005	<0.005
171691 - MW-3	<0.001	<0.001	<0.001	<0.001	<0.001
171692 - EB1	<0.001	<0.001	<0.001	<0.001	<0.001

Sample: 171689 - MW-1

Param	Flag	Result	Units
Total Mercury		0.00185	mg/L
Naphthalene		<0.005	mg/L
Acenaphthylene		<0.005	mg/L
Acenaphthene		<0.005	mg/L
Fluorene		<0.005	mg/L
Phenanthrene		<0.005	mg/L
Anthracene		<0.005	mg/L
Fluoranthene		<0.005	mg/L
Pyrene		<0.005	mg/L
Benzo(a)anthracene		<0.005	mg/L
Chrysene		<0.005	mg/L
Benzo(b)fluoranthene		<0.005	mg/L
Benzo(k)fluoranthene		<0.005	mg/L
Benzo(a)pyrene		<0.005	mg/L
Indeno(1,2,3-cd)pyrene		<0.005	mg/L
Dibenzo(a,h)anthracene		<0.005	mg/L
Benzo(g,h,i)perylene		<0.005	mg/L

Sample: 171690 - MW-2

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Naphthalene		<0.005	mg/L
Acenaphthylene		<0.005	mg/L
Acenaphthene		<0.005	mg/L
Fluorene		<0.005	mg/L
Phenanthrene		<0.005	mg/L
Anthracene		<0.005	mg/L
Fluoranthene		<0.005	mg/L
Pyrene		<0.005	mg/L
Benzo(a)anthracene		<0.005	mg/L
Chrysene		<0.005	mg/L
Benzo(b)fluoranthene		<0.005	mg/L
Benzo(k)fluoranthene		<0.005	mg/L
Benzo(a)pyrene		<0.005	mg/L
Indeno(1,2,3-cd)pyrene		<0.005	mg/L
Dibenzo(a,h)anthracene		<0.005	mg/L
Benzo(g,h,i)perylene		<0.005	mg/L

Sample: 171691 - MW-3

Param	Flag	Result	Units
Total Mercury		<0.0002	mg/L
Naphthalene		<0.005	mg/L
Acenaphthylene		<0.005	mg/L
Acenaphthene		<0.005	mg/L
Fluorene		<0.005	mg/L
Phenanthrene		<0.005	mg/L
Anthracene		<0.005	mg/L
Fluoranthene		<0.005	mg/L
Pyrene		<0.005	mg/L
Benzo(a)anthracene		<0.005	mg/L
Chrysene		<0.005	mg/L
Benzo(b)fluoranthene		<0.005	mg/L
Benzo(k)fluoranthene		<0.005	mg/L
Benzo(a)pyrene		<0.005	mg/L
Indeno(1,2,3-cd)pyrene		<0.005	mg/L
Dibenzo(a,h)anthracene		<0.005	mg/L
Benzo(g,h,i)perylene		<0.005	mg/L

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
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: June 6, 2001

Order ID Number: A01052219

Project Number: EOT 2024C
Project Name: TNM 97-17
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
171689	MW-1	Water	5/17/01	11:30	5/22/01
171690	MW-2	Water	5/17/01	11:46	5/22/01
171691	MW-3	Water	5/17/01	12:00	5/22/01
171692	EB1	Water	5/17/01	12:15	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 9 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: 171689 - 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		<0.001	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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0969	mg/L	1	0.10	96	72 - 128
4-BFB		0.0779	mg/L	1	0.10	77	72 - 128

Sample: 171689 - MW-1

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC11565	Date Analyzed:	5/31/01
Analyst:	SSC	Preparation Method:	N/A	Prep Batch:	PB09902	Date Prepared:	5/31/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		0.00185	mg/L	1	0.0002

Sample: 171689 - MW-1

Analysis:	PAH	Analytical Method:	S 8270C	QC Batch:	QC11535	Date Analyzed:	5/23/01
Analyst:	RC	Preparation Method:	E 3510C	Prep Batch:	PB09876	Date Prepared:	5/23/01

Param	Flag	Result	Units	Dilution	RDL
Naphthalene		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Phenanthrene		<0.005	mg/L	1	0.005
Anthracene		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		31.69	mg/L	1	80	39	35 - 114
2-Fluorobiphenyl	[1]	33.38	mg/L	1	80	41	43 - 116
Terphenyl-d14		36.79	mg/L	1	80	45	33 - 141

Sample: 171690 - MW-2

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		0.49	mg/L	5	0.10	98	72 - 128
4-BFB		0.375	mg/L	5	0.10	75	72 - 128

Sample: 171690 - MW-2

Analysis:	Hg, Total	Analytical Method:	S 7470A	QC Batch:	QC11565	Date Analyzed:	5/31/01
Analyst:	SSC	Preparation Method:	N/A	Prep Batch:	PB09902	Date Prepared:	5/31/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 171690 - MW-2

Analysis:	PAH	Analytical Method:	S 8270C	QC Batch:	QC11535	Date Analyzed:	5/23/01
Analyst:	RC	Preparation Method:	E 3510C	Prep Batch:	PB09876	Date Prepared:	5/23/01

Param	Flag	Result	Units	Dilution	RDL
Naphthalene		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Phenanthrene		<0.005	mg/L	1	0.005
Anthracene		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005
Chrysene		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
Indeno(1.2,3-cd)pyrene		<0.005	mg/L	1	0.005

Continued ...

[1] Surrogate recovery out of limits due to sample matrix. Other surrogates show that sample is in control.

... *Continued* Sample: 171690 Analysis: PAH

Param	Flag	Result	Units	Dilution	RDL
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		40.15	mg/L	1	80	50	35 - 114
2-Fluorobiphenyl		41.9	mg/L	1	80	52	43 - 116
Terphenyl-d14		39.21	mg/L	1	80	49	33 - 141

Sample: 171691 - 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		<0.001	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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.104	mg/L	1	0.10	104	72 - 128
4-BFB		0.0872	mg/L	1	0.10	87	72 - 128

Sample: 171691 - MW-3

Analysis: Hg, Total Analytical Method: S 7470A QC Batch: QC11565 Date Analyzed: 5/31/01
Analyst: SSC Preparation Method: N/A Prep Batch: PB09902 Date Prepared: 5/31/01

Param	Flag	Result	Units	Dilution	RDL
Total Mercury		<0.0002	mg/L	1	0.0002

Sample: 171691 - MW-3

Analysis: PAH Analytical Method: S 8270C QC Batch: QC11535 Date Analyzed: 5/23/01
Analyst: RC Preparation Method: E 3510C Prep Batch: PB09876 Date Prepared: 5/23/01

Param	Flag	Result	Units	Dilution	RDL
Naphthalene		<0.005	mg/L	1	0.005
Acenaphthylene		<0.005	mg/L	1	0.005
Acenaphthene		<0.005	mg/L	1	0.005
Fluorene		<0.005	mg/L	1	0.005
Phenanthrene		<0.005	mg/L	1	0.005
Anthracene		<0.005	mg/L	1	0.005
Fluoranthene		<0.005	mg/L	1	0.005
Pyrene		<0.005	mg/L	1	0.005
Benzo(a)anthracene		<0.005	mg/L	1	0.005

Continued ...

... *Continued* Sample: 171691 Analysis: PAH

Param	Flag	Result	Units	Dilution	RDL
Chrysene		<0.005	mg/L	1	0.005
Benzo(b)fluoranthene		<0.005	mg/L	1	0.005
Benzo(k)fluoranthene		<0.005	mg/L	1	0.005
Benzo(a)pyrene		<0.005	mg/L	1	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	1	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	1	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	1	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		29.87	mg/L	1	80	37	35 - 114
2-Fluorobiphenyl	[2]	31.81	mg/L	1	80	39	43 - 116
Terphenyl-d14		30.71	mg/L	1	80	38	33 - 141

Sample: 171692 - EB1

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

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.107	mg/L	1	0.10	107	72 - 128
4-BFB		0.0846	mg/L	1	0.10	84	72 - 128

[2]Surrogate recovery out of limits due to sample matrix. Other surrogates show that sample is in control.

Quality Control Report
Method Blank

Method Blank

QCBatch: QC11535

Param	Flag	Results	Units	Reporting Limit
Naphthalene		<0.005	mg/L	0.005
Acenaphthylene		<0.005	mg/L	0.005
Acenaphthene		<0.005	mg/L	0.005
Fluorene		<0.005	mg/L	0.005
Phenanthrene		<0.005	mg/L	0.005
Anthracene		<0.005	mg/L	0.005
Fluoranthene		<0.005	mg/L	0.005
Pyrene		<0.005	mg/L	0.005
Benzo(a)anthracene		<0.005	mg/L	0.005
Chrysene		<0.005	mg/L	0.005
Benzo(b)fluoranthene		<0.005	mg/L	0.005
Benzo(k)fluoranthene		<0.005	mg/L	0.005
Benzo(a)pyrene		<0.005	mg/L	0.005
Indeno(1,2,3-cd)pyrene		<0.005	mg/L	0.005
Dibenzo(a,h)anthracene		<0.005	mg/L	0.005
Benzo(g,h,i)perylene		<0.005	mg/L	0.005

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Nitrobenzene-d5		54.76	mg/L	1	80	68	35 - 114
2-Fluorobiphenyl		60.49	mg/L	1	80	75	43 - 116
Terphenyl-d14		64.76	mg/L	1	80	80	33 - 141

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

Method Blank

QCBatch: QC11565

Param	Flag	Results	Units	Reporting Limit
Total Mercury		<0.0002	mg/L	0.0002

Quality Control Report
Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes

QCBatch: QC11535

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Naphthalene	41.3	42.48	mg/L	1	80	<0.005	51	2	21 - 133	20
Acenaphthylene	44.34	44.61	mg/L	1	80	<0.005	55	0	33 - 145	20
Acenaphthene	45.42	46.32	mg/L	1	80	<0.005	56	1	47 - 145	20
Fluorene	50.69	50.93	mg/L	1	80	<0.005	63	0	59 - 121	20
Phenanthrene	42.97	42.56	mg/L	1	80	<0.005	53	0	54 - 120	20
Anthracene	44.45	44.84	mg/L	1	80	<0.005	55	0	27 - 133	20
Fluoranthene	52.46	50.72	mg/L	1	80	<0.005	65	3	26 - 137	20
Pyrene	41.05	39.79	mg/L	1	80	<0.005	51	3	52 - 115	20
Benzo(a)anthracene	44.79	45.61	mg/L	1	80	<0.005	55	1	33 - 143	20
Chrysene	68.84	69.5	mg/L	1	80	<0.005	86	0	17 - 168	20
Benzo(b)fluoranthene	55.05	52.89	mg/L	1	80	<0.005	68	4	33 - 143	20
Benzo(k)fluoranthene	54.57	50.12	mg/L	1	80	<0.005	68	8	17 - 168	20
Benzo(a)pyrene	48.64	49.37	mg/L	1	80	<0.005	60	1	24 - 159	20
Indeno(1,2,3-cd)pyrene	35.62	40.32	mg/L	1	80	<0.005	44	12	0 - 171	20
Dibenzo(a,h)anthracene	48.96	55.5	mg/L	1	80	<0.005	61	12	0 - 227	20
Benzo(g,h,i)perylene	36.48	41.45	mg/L	1	80	<0.005	45	12	0 - 219	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
Nitrobenzene-d5	38.98	42.32	mg/L	1	80	48	52	35 - 114
2-Fluorobiphenyl	41.29	43.01	mg/L	1	80	51	53	43 - 116
Terphenyl-d14	26.44	28.71	mg/L	1	80	33	35	33 - 141

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

Laboratory Control Spikes

QCBatch: QC11565

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00104	0.00104	mg/L	1	0.001	<0.0002	104	0	84 - 125	20

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

Quality Control Report
Matrix Spikes and Duplicate Spikes

Matrix Spikes

QCBatch: QC11565

Param	MS Result	MSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
Total Mercury	0.00097	0.00103	mg/L	1	0.001	<0.0002	97	5	84 - 127	20

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

Quality Control Report
Continuing Calibration Verification Standards

CCV (1)

QCBatch: QC11535

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Naphthalene		mg/L	60	59.52	99	80 - 120	5/23/01
Acenaphthylene		mg/L	60	59.35	98	80 - 120	5/23/01
Acenaphthene		mg/L	60	60.35	100	80 - 120	5/23/01
Fluorene		mg/L	60	64.37	107	80 - 120	5/23/01
Phenanthrene		mg/L	60	59.00	98	80 - 120	5/23/01
Anthracene		mg/L	60	60.06	100	80 - 120	5/23/01
Fluoranthene		mg/L	60	71.76	119	80 - 120	5/23/01
Pyrene		mg/L	60	48.24	80	80 - 120	5/23/01
Benzo(a)anthracene		mg/L	60	60.69	101	0 - 120	5/23/01
Chrysene		mg/L	60	60.41	100	0 - 120	5/23/01
Benzo(b)fluoranthene		mg/L	60	65.21	108	80 - 120	5/23/01
Benzo(k)fluoranthene		mg/L	60	62.61	104	80 - 120	5/23/01
Benzo(a)pyrene		mg/L	60	61.02	101	80 - 120	5/23/01
Indeno(1,2,3-cd)pyrene		mg/L	60	49.15	81	80 - 120	5/23/01
Dibenzo(a,h)anthracene		mg/L	60	50.29	83	80 - 120	5/23/01
Benzo(g,h,i)perylene		mg/L	60	48.09	80	80 - 120	5/23/01
Nitrobenzene-d5		mg/L	60	55.74	92	80 - 120	5/23/01
2-Fluorobiphenyl		mg/L	60	55.76	92	80 - 120	5/23/01
Terphenyl-d14		mg/L	60	51.31	85	80 - 120	5/23/01

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
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

CCV (1) QCBatch: QC11565

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00095	95	80 - 120	5/31/01

ICV (1) QCBatch: QC11565

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.001	0.00103	103	80 - 120	5/31/01

171689-92

COC 060

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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 # A0105221 9

Company Name: ETGI
Phone #: (505) 397-4882
Address: (Street, City, Zip) 2540 W MARLAND HOBBS, NM
Fax #: (505) 397-4701
Contact Person: KEN DUTTON
Invoice to: (If different from above) EOTT
Project #: EOT 2024C
Project Name: TNM 97-17
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
171689	MW 1	4	1	X				X				X		5-17	1130
90	MW 2	4													1146
91	MW 3	4													1200
92	EB1 (2)	4	1	X				X				X			1215

MTBE 8021B/602	BTEX 8021B/602	TPH 418.1/TX1005	PAH 8100 8270	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
	X		X	X												

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Simon Casas	5-21-01	1300	[signature]	5-21-01	8:20
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by: [signature]	5-22-01	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 MF

REMARKS:

☐ Check If Special Reporting Limits Are Needed

Carrier # Bus. 902 591 5466 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. Maryland
Hobbs Nm 88240

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

Report#/Lab ID#: 118025 **Report Date:** 08/20/01
Project ID: TNM 97-17 EOT 2024C
Sample Name: MW1
Sample Matrix: water
Date Received: 08/14/2001 **Time:** 11:00
Date Sampled: 08/08/2001 **Time:** 09:30

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	---		---		08/17/01	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	08/17/01	8260b	---	8.9	88.9	97.2	85.9
Ethylbenzene	<1	µg/L	1	<1	08/17/01	8260b	---	4.4	99.3	97.3	96.5
m,p-Xylenes	<1	µg/L	1	<1	08/17/01	8260b	---	3.5	109.4	108.2	106.4
o-Xylene	<1	µg/L	1	<1	08/17/01	8260b	---	0.8	99.8	100.4	100.8
Toluene	<1	µg/L	1	<1	08/17/01	8260b	---	8	114.5	114.2	111.6

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:** Ken Dutton	**Project ID:** TNM 97-17 EOT 2024C **Sample Name:** MW1	**Report#/Lab ID#:** 118025 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	84.8	80-120	---
Toluene-d8	8260b	89.6	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. Maryland
Hobbs Nm 88240

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

Report#/Lab ID#: 118026 **Report Date:** 08/20/01
Project ID: TNM 97-17 EOT 2024C
Sample Name: MW2
Sample Matrix: water
Date Received: 08/14/2001 **Time:** 11:00
Date Sampled: 08/08/2001 **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	---		---		08/17/01	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	08/17/01	8260b	---	8.9	88.9	97.2	85.9
Ethylbenzene	<1	µg/L	1	<1	08/17/01	8260b	---	4.4	99.3	97.3	96.5
m,p-Xylenes	<1	µg/L	1	<1	08/17/01	8260b	---	3.5	109.4	108.2	106.4
o-Xylene	<1	µg/L	1	<1	08/17/01	8260b	---	0.8	99.8	100.4	100.8
Toluene	<1	µg/L	1	<1	08/17/01	8260b	---	8	114.5	114.2	111.6

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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(512) 444-5896 • • FAX (512) 447-4766

Client: Environmental Tech Group **Attn:** Ken Dutton	**Project ID:** TNM 97-17 EOT 2024C **Sample Name:** MW2	**Report#/Lab ID#:** 118026 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	82.4	80-120	---
Toluene-d8	8260b	90.2	88-110	---

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

ANALYSYS INC.

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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. Maryland
Hobbs Nm 88240

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

Report#/Lab ID#: 118027 **Report Date:** 08/20/01
Project ID: TNM 97-17 EOT 2024C
Sample Name: MW3
Sample Matrix: water
Date Received: 08/14/2001 **Time:** 11:00
Date Sampled: 08/08/2001 **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	---		---		08/17/01	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	08/17/01	8260b	---	8.9	88.9	97.2	85.9
Ethylbenzene	<1	µg/L	1	<1	08/17/01	8260b	---	4.4	99.3	97.3	96.5
m,p-Xylenes	<1	µg/L	1	<1	08/17/01	8260b	---	3.5	109.4	108.2	106.4
o-Xylene	<1	µg/L	1	<1	08/17/01	8260b	---	0.8	99.8	100.4	100.8
Toluene	<1	µg/L	1	<1	08/17/01	8260b	---	8	114.5	114.2	111.6

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Respectfully Submitted,

Richard Laster

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: TNM 97-17 EOT 2024C
Sample Name: MW3

Report#/Lab ID#: 118027
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	105	80-120	---
Toluene-d8	8260b	88.2	88-110	---

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

ANALYSYS INC.

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

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

Report#/Lab ID#: 118028 **Report Date:** 08/20/01
Project ID: TNM 97-17 EOT 2024C
Sample Name: EB
Sample Matrix: water
Date Received: 08/14/2001 **Time:** 11:00
Date Sampled: 08/08/2001 **Time:** 09:45

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	---		---		08/17/01	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	08/17/01	8260b	---	8.9	88.9	97.2	85.9
Ethylbenzene	<1	µg/L	1	<1	08/17/01	8260b	---	4.4	99.3	97.3	96.5
m,p-Xylenes	<1	µg/L	1	<1	08/17/01	8260b	---	3.5	109.4	108.2	106.4
o-Xylene	<1	µg/L	1	<1	08/17/01	8260b	---	0.8	99.8	100.4	100.8
Toluene	<1	µg/L	1	<1	08/17/01	8260b	---	8	114.5	114.2	111.6

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(512) 444-5896 • • FAX (512) 447-4766

Client: Environmental Tech Group **Attn:** Ken Dutton	**Project ID:** TNM 97-17 EOT 2024C **Sample Name:** EB	**Report#/Lab ID#:** 118028 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	102	80-120	---
Toluene-d8	8260b	88.1	88-110	---

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

COC # 705

CHAIN-OF-CUSTODY

ANALYSYS INC.
4221 Freidrich Lane, Suite 190, Austin, TX 78744
(512) 444-5896

Send Reports to:
Company Name ETGI
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 ETGI
Address
City State Zip
ATTN:
Phone Fax

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: TNM 97-17 EOT 2024C 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	8-8-01	0930	2		X		118025	X	
MW 2		0900					118026		
MW 3		0830					118027		
EB 1		0945					118028		

(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.

T = 3.5

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Simon Casas		8-13-01	1500		ASI	8/14/01	11:00

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

ANALYSYS INC.

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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#: 121353 **Report Date:** 11/02/01
Project ID: TNM 97-17 EOT 2024C
Sample Name: MW 1
Sample Matrix: water
Date Received: 10/26/2001 **Time:** 10:02
Date Sampled: 10/24/2001 **Time:** 13:20

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.

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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 97-17 EOT 2024C **Sample Name:** MW 1	**Report#/Lab ID#:** 121353 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	95.2	80-120	---
Toluene-d8	8260b	110	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: Matina Smith
Address: 4600 W. Wall
Midland, TX 79703

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

Report#/Lab ID#: 121354 **Report Date:** 11/02/01
Project ID: TNM 97-17 EOT 2024C
Sample Name: MW 2
Sample Matrix: water
Date Received: 10/26/2001 **Time:** 10:02
Date Sampled: 10/24/2001 **Time:** 13:30

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	---		---		11/02/01	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/02/01	8260b	---	0.2	81.4	89.5	79.6
Ethylbenzene	<1	µg/L	1	<1	11/02/01	8260b	---	0.3	101.2	99.9	95.5
m,p-Xylenes	<1	µg/L	1	<1	11/02/01	8260b	---	0.4	95	92.8	89.6
o-Xylene	<1	µg/L	1	<1	11/02/01	8260b	---	0	102.7	101.4	97.9
Toluene	<1	µg/L	1	<1	11/02/01	8260b	---	0.1	87.8	92.9	84.1

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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 97-17 EOT 2024C **Sample Name:** MW 2	**Report#/Lab ID#:** 121354 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	80.7	80-120	---
Toluene-d8	8260b	109	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: Matina Smith
Address: 4600 W. Wall
Midland, TX 79703

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

Report#/Lab ID#: 121355 **Report Date:** 11/02/01
Project ID: TNM 97-17 EOT 2024C
Sample Name: MW 3
Sample Matrix: water
Date Received: 10/26/2001 **Time:** 10:02
Date Sampled: 10/24/2001 **Time:** 13:00

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

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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 97-17 EOT 2024C **Sample Name:** MW 3	**Report#/Lab ID#:** 121355 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	99.7	80-120	---
Toluene-d8	8260b	109	88-110	---

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

AnalySys Inc.

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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

Report#/Lab ID#: 121356 **Report Date:** 11/02/01
Project ID: TNM 97-17 EOT 2024C
Sample Name: EB 1
Sample Matrix: water
Date Received: 10/26/2001 **Time:** 10:02
Date Sampled: 10/24/2001 **Time:** 13:45

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	<1	µg/L	1	<1	11/02/01	8260b	---	0.2	81.4	89.5	79.6
Ethylbenzene	<1	µg/L	1	<1	11/02/01	8260b	---	0.3	101.2	99.9	95.5
m,p-Xylenes	<1	µg/L	1	<1	11/02/01	8260b	---	0.4	95	92.8	89.6
o-Xylene	<1	µg/L	1	<1	11/02/01	8260b	---	0	102.7	101.4	97.9
Toluene	<1	µg/L	1	<1	11/02/01	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 97-17 EOT 2024C **Sample Name:** EB 1	**Report#/Lab ID#:** 121356 **Sample Matrix:** water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	84.4	80-120	---
Toluene-d8	8260b	110	88-110	---

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

COC #166

CHAIN-OF-CUSTODY

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

Send Reports To:
Company Name E.T.G.I.
Address 4600 West Wall
City Midland State TX Zip 79703
ATTN: Matina Smith
Phone (915) 522 1139 Fax (915) 520-4319

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

#499

Rush Status (must be confirmed with lab mgr.):
Project Name/PO#: TNM 97-17 sampler: Simon Castro
EOT 2024C

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	10-24-01	1320	2		X		121353	X	
MW 2		1330					121354		
MW 3		1300					121355		
EB 1		1345					121356		

(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 Castro	ETGI	10-25-01	1500	Melanie Humphrey	ASI	10/26/01	1002

[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 97-17