

1R - 123

REPORTS

DATE:

04-2001

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NSL

ANNUAL MONITORING REPORT

**EOTT PIPELINE COMPANY
MONUMENT 17
LEA COUNTY, NEW MEXICO**

12-123

RECEIVED

MAY 09 2001

**ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION**

PREPARED FOR:

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

PREPARED BY:

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

April 2001

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INTRODUCTION

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

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

FIELD ACTIVITIES

The site monitoring wells were gauged and sampled on January 17, April 10, August 31, and December 18, 2000. During each sampling event, the monitoring wells, designated to be sampled, were purged of approximately 3 well volumes of water or until the wells were dry using a PVC bailer or electrical Grundfos Pump. Ground water was allowed to recharge and samples were obtained using disposable Teflon samplers. Water samples were stored in clean, glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a polystyrene tank and disposed of by Pate Trucking, Hobbs, New Mexico, utilizing a licensed disposal facility (OCD AO SWD-730).

GROUND WATER GRADIENT

Locations of the monitoring wells and the inferred ground water gradient, as measured on December 18, 2000, are depicted on Figure 2, the Site Ground Water Gradient Map. The ground water elevation data are provided as Table 1. Ground water elevation contours, generated from the final quarterly event of calendar year 2000 water level measurements, indicated a general gradient of approximately 0.002 ft/ft to the southeast as measured between ground water monitoring wells MW-1 and MW-8. The depth to ground water, as measured from the top of the well casing, ranged between 17.44 to 22.64 feet for the shallow alluvial aquifer.

A measurable thickness of PSH was detected in monitoring well MW-7 during the annual monitoring period. A maximum thickness of 1.00 foot was measured and is shown on Table 1.

LABORATORY RESULTS

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

Laboratory results for all of the site ground water samples, obtained during the calendar year 2000 monitoring period, indicated that Benzene and BTEX concentrations were at or below method detection limits for monitoring wells MW-4, MW-5, MW-6, and MW-8. The Benzene concentrations contained in the ground water samples from monitoring wells MW-1, MW-2, and MW-3 were above regulatory standards. The BTEX concentrations contained in the ground water samples from monitoring wells MW-1, MW-2, and MW-3 were below regulatory standards.

SUMMARY

This report presents the results of monitoring activities for the annual monitoring period of calendar year 2000. A measurable thickness of PSH was detected in monitoring well MW-7 during the annual monitoring period. A maximum thickness of 1.00 foot was measured in this monitoring well.

Ground water elevation contours, generated from the final quarterly event of 2000 water level measurements, indicated a general gradient of approximately 0.002 ft/ft to the southeast as measured between ground water monitoring wells MW-1 and MW-8.

Laboratory results for all of the site ground water samples, obtained during the calendar year 2000 monitoring period, indicated that Benzene and BTEX concentrations were at or below method detection limits for monitoring wells MW-4, MW-5, MW-6, and MW-8. The Benzene concentrations contained in the ground water samples from monitoring wells MW-1, MW-2, and MW-3 were above regulatory standards. The BTEX concentrations contained in the ground water samples from monitoring wells MW-1, MW-2, and MW-3 were below regulatory standards.

FIGURES



FIGURE 1

Not To Scale

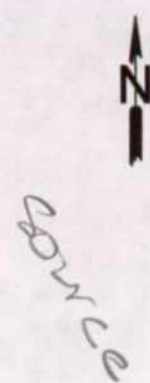
Site Location Map

EOTT Energy Corp.
Monument 17
Lea County, NM

Environmental
Technology
Group, Inc.

02 - 09 - 00 RS

ETGI Project # EOT2064C



MW-5
(3587.73)

MW-3
(3587.57)

MW-7
(3587.22)

MW-8
(3587.53)

MW-2
(3587.31)

MW-1
(3587.27)

MW-4
(3587.15)

MW-6
(3586.86)

3587.80

3587.40

3587.20

3587.00

DIRT ROAD



LEGEND:

- Monitoring Well Locations
- Ground Water Contour Lines

Figure 2
Site Groundwater
Gradient Map (12/18/00)
E.O.T.T. Energy
Monument 17
Lea County, NM



Environmental Technology
Group, INC.

Scale: 1" = 75'	Prep By: RS	Checked By: JT
December 18, 2000	ETGI Project #: EOT2064C	

TABLES

TABLE 1
GROUND WATER ELEVATION
ANNUAL REPORT
EOTT ENERGY CORPORATION
MONUMENT 17
LEA COUNTY, NEW MEXICO
ETGI PROJECT # EOT2064C

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW - 1	01/17/00	3,607.16	-	19.95	0.00	3,587.21
	04/10/00	3,607.16	-	20.08	0.00	3,587.08
	08/31/00	3,607.16	-	19.71	0.00	3,587.45
	12/18/00	3,607.16	-	19.89	0.00	3,587.27
MW - 2	01/17/00	3,607.08	-	19.82	0.00	3,587.26
	04/10/00	3,607.08	-	19.94	0.00	3,587.14
	08/31/00	3,607.08	-	19.57	0.00	3,587.51
	12/18/00	3,607.08	-	19.77	0.00	3,587.31
MW - 3	01/17/00	3,608.43	-	20.92	0.00	3,587.51
	04/10/00	3,608.43	-	21.06	0.00	3,587.37
	08/31/00	3,608.43	-	20.64	0.00	3,587.79
	12/18/00	3,608.43	-	20.86	0.00	3,587.57
MW - 4	01/17/00	3,606.12	-	19.02	0.00	3,587.10
	04/10/00	3,606.12	-	19.12	0.00	3,587.00
	08/31/00	3,606.12	-	18.80	0.00	3,587.32
	12/18/00	3,606.12	-	18.97	0.00	3,587.15
MW - 5	01/17/00	3,610.17	-	22.55	0.00	3,587.62
	04/10/00	3,610.17	-	22.64	0.00	3,587.53
	08/31/00	3,610.17	-	22.22	0.00	3,587.95
	12/18/00	3,610.17	-	22.44	0.00	3,587.73
MW - 6	01/17/00	3,604.44	-	17.63	0.00	3,586.81
	04/10/00	3,604.44	-	17.72	0.00	3,586.72
	08/31/00	3,604.44	-	17.44	0.00	3,587.00
	12/18/00	3,604.44	-	17.58	0.00	3,586.86
MW - 7	01/17/00	3,607.38	20.25	20.30	1.00	3,587.93
	04/10/00	3,607.38	20.36	20.41	0.05	3,587.01
	08/31/00	3,607.38	19.99	19.99	0.00	3,587.39
	12/18/00	3,607.38	20.16	20.16	0.00	3,587.22
MW - 8	01/17/00	3,607.99	-	20.55	0.00	3,587.44
	04/10/00	3,607.99	-	20.68	0.00	3,587.31
	08/31/00	3,607.99	-	20.26	0.00	3,587.73
	12/18/00	3,607.99	-	20.46	0.00	3,587.53

TABLE 2
GROUND WATER CHEMISTRY
ANNUAL REPORT

EOTT ENERGY CORPORATION
MONUMENT 17
LEA COUNTY, NEW MEXICO
ETGI PROJECT # EOT 2064C

All concentrations are in mg/L

SAMPLE LOCATION	SAMPLE DATE	SW 846-8021B, 5030				
		BENZENE	TOLUENE	ETHYL-BENZENE	M,P-XYLENES	O-XYLENES
MW - 1	01/17/00	0.153	0.008	0.044	0.016	0.006
	04/10/00	0.059	0.003	0.002	0.003	0.002
	08/31/00	0.132	0.002	<0.001	0.001	0.001
	12/18/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 2	01/17/00	0.002	<0.001	<0.001	<0.001	<0.001
	04/10/00	0.011	0.004	0.001	0.002	0.001
	08/31/00	0.107	0.005	0.006	<0.001	<0.001
	12/18/00	0.003	<0.001	<0.001	<0.001	<0.001
MW - 3	01/17/00	0.005	0.002	<0.001	0.002	<0.001
	04/10/00	0.033	0.005	0.003	0.003	0.002
	08/31/00	0.029	<0.001	0.001	<0.001	<0.001
	12/18/00	0.028	0.002	0.001	<0.001	<0.001
MW - 4	01/17/00	<0.001	<0.001	<0.001	<0.001	<0.001
	04/10/00	<0.001	<0.001	<0.001	0.001	<0.001
	08/31/00	<0.001	<0.001	<0.001	<0.001	<0.001
	12/18/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 5	01/17/00	<0.001	<0.001	<0.001	<0.001	<0.001
	04/10/00	<0.001	<0.001	<0.001	0.001	<0.001
	08/31/00	<0.001	<0.001	<0.001	<0.001	<0.001
	12/18/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 6	01/17/00	<0.001	<0.001	<0.001	<0.001	<0.001
	04/10/00	<0.001	<0.001	<0.001	0.001	<0.001
	08/31/00	<0.001	<0.001	<0.001	<0.001	<0.001
	12/18/00	<0.001	<0.001	<0.001	<0.001	<0.001
MW - 8	01/17/00	<0.001	<0.001	<0.001	<0.001	<0.001
	04/10/00	<0.001	<0.001	<0.001	0.001	<0.001
	08/31/00	<0.001	<0.001	<0.001	<0.001	<0.001
	12/18/00	<0.001	<0.001	<0.001	<0.001	<0.001

APPENDIX

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

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

Sample Type: Water
Sample Condition: Intact/Iced/HCl
Project #: EOT1015C
Project Name: Monument 17
Project Location: Monument, N.M.

Sampling Date: 01/17/00
Receiving Date: 01/26/00
Analysis Date: 1/26 - 1/27/00

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
23119	MW-1	0.153	0.008	0.044	0.016	0.006
23120	MW-2	0.002	<0.001	<0.001	<0.001	<0.001
23121	MW-3	0.005	0.002	<0.001	0.002	<0.001
23122	MW-4	<0.001	<0.001	<0.001	<0.001	<0.001
23123	MW-5	<0.001	<0.001	<0.001	<0.001	<0.001
23124	MW-6	<0.001	<0.001	<0.001	<0.001	<0.001
23125	MW-8	<0.001	<0.001	<0.001	<0.001	<0.001

% IA	92	90	88	90	88
% EA	105	87	86	88	85
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: EPA SW 846-8021B,5030


Raland K. Tuttle

1-28-00
Date

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

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

072

Project Manager: Jesse Taylor

Phone #: (915) 664-9166
FAX #: (505) 392-3760

Company Name & Address: ETI

P.O. Box 4845 MIDLAND TX 79704

Project #:

ET 1015C

Project Name:

MOBILEMENT 17

Project Location:

MOBILEMENT, NM

Sampler Signature:

[Signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX							PRESERVATIVE METHOD					SAMPLING	
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	ICE	NONE	OTHER	DATE	TIME		
	MW1	2	✓	✓							✓				1-17	1216	
	MW2															1141	
	MW3															1105	
	MW4															1235	
	MW5															1050	
	MW6															1300	
	MW8	✓	✓	✓							✓				✓	1120	

BTEX 8020/500

TPH 418.1

TCLP Metals Ag As Ba Cd Cr Pb Hg Se

Total Metals Ag As Ba Cd Cr Pb Hg Se

TCLP Volatiles

TCLP Semi Volatiles

TDS

RCI

ANALYSIS REQUEST

Relinquished by:

[Signature]

Date:

Times:

Received by:

REMARKS

MAIL RESULTS: H. DUTTON

Relinquished by:

[Signature]

Date:

Times:

Received by:

Relinquished by:

[Signature]

Date:

Times:

Received by Laboratory:

INVOICE: LENDAH FROST 1015M

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

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

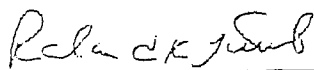
SampleType: Water
Sample Condition: Intact/ Iced/HCl
Project #: EOT 1015C
Project Name: Monument 17
Project Location: Monument

Sampling Date: 04/10/00
Receiving Date: 04/12/00
Analysis Date: 4/19/00

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
24805	MW-1	0.059	0.003	0.002	0.003	0.002
24806	MW-2	0.011	0.004	0.001	0.002	0.001
24807	MW-3	0.033	0.005	0.003	0.003	0.002
24808	MW-4	<0.001	<0.001	<0.001	0.001	<0.001
24809	MW-5	<0.001	<0.001	<0.001	0.001	<0.001
24810	MW-6	<0.001	<0.001	<0.001	0.001	<0.001
24811	MW-8	<0.001	<0.001	<0.001	0.001	<0.001

% IA	97	95	94	101	94
% EA	100	96	96	101	93
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: SW 846-80218,5030


Roland K. Tuttle

4-20-00
Date

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

COO # 122

Phone #: (415) 664-9166
FAX #: (505) 352-3760

2025/11/25

Company Name & Address: *ETRE*
P.O. BOX 4995
MIDLAND TX 79704

Project Name: Monument 17

Sampler Signature: 

Memorandum

Amory

[illegible]

5 Misses H. Burton

Invoice ~~600007~~ 600111 2015

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

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

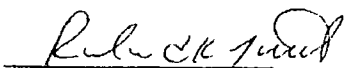
SampleType: Water
Sample Condition: Intact/ Iced/ HCl/ 30 deg. F
Project #: EOT 2064C
Project Name: Monument 17
Project Location: Monument, N.M.

Sampling Date: 08/31/00
Receiving Date: 09/01/00
Analysis Date: 09/06/00

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L	TOTAL BTEX mg/L
30318	MW 1	0.132	0.002	<0.001	0.001	0.001	0.136
30319	MW 2	0.107	0.005	0.006	<0.001	<0.001	0.118
30320	MW 3	0.029	<0.001	0.001	<0.001	<0.001	0.030
30321	MW 4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
30322	MW 5	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
30323	MW 6	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
30324	MW 8	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
30325	EB 1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

% IA	96	94	96	98	92
% EA	95	94	95	95	91
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: SW 846-8021B,5030


Raland K. Tuttle

9-12-00
Date

[illegible]

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

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

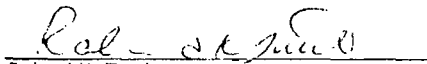
Sample Type: Water
Sample Condition: Intact/ Iced/ HCl/ -0.5 deg. C
Project #: EOT 2064C
Project Name: Monument 17
Project Location: Monument, N.M.

Sampling Date: 12/18/00
Receiving Date: 12/22/00
Analysis Date: 12/28/00

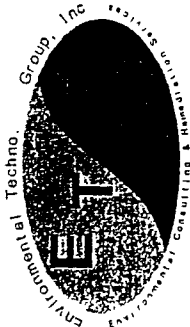
ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
35609	MW 1	<0.001	<0.001	<0.001	<0.001	<0.001
35610	MW 2	0.003	<0.001	<0.001	<0.001	<0.001
35611	MW 3	0.028	0.002	0.001	<0.001	<0.001
35612	MW 4	<0.001	<0.001	<0.001	<0.001	<0.001
35613	MW 5	<0.001	<0.001	<0.001	<0.001	<0.001
35614	MW 6	<0.001	<0.001	<0.001	<0.001	<0.001
35615	MW 8	<0.001	<0.001	<0.001	<0.001	<0.001
35616	EB 1	<0.001	<0.001	<0.001	<0.001	<0.001

%IA	100	96	99	104	102
%EA	86	87	91	94	88
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: EPA SW 846-8021B, 5030


Raland K. Tuttle

12-29-00
Date



For Use On EOTT ENERGY CORP. Project:
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. Project: /

5805 East Business 20
Midland, TX 79702
Tel (915) 687-3400
Fax (915) 582-2781

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST
(Circle or Specify Method No.)

Project Manager:

BETH ALDRICH

Project Name:

MONUMENT 17

Project Location:

MONUMENT NM

Project Number:

EOT 2064C

Sampler Signature:

James Casao

LAB # Lab Use Only)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX				PRESERVATION METHOD				SAMPLING	
				WATER	SOIL	AIR	SLUDGE	HCL	HNO ₃	NaHSO ₄	ICE	DATE	TIME
	MW 1	2	V	X				X			X	12-18	1105
	MW 2											1213	
	MW 3											1044	
	MW 4											1155	
	MW 5											1030	
	MW 6											1130	
	MW 8											1239	
	EB 1											1255	

Relinquished by:	Date:	Time:	Received by:	Date:	Time:	REMARKS:
James Casao	12-21-00	1230				FOR RESULTS: HOBBS MAIL RESULTS EOT JANUARY: EOT
Relinquished by:	Date:	Time:	Received at Lab by:	Date:	Time:	
			James Casao	12/21/00	12:30	

ANNUAL MONITORING REPORT

**EOTT PIPELINE COMPANY
MONUMENT 17
LEA COUNTY, NEW MEXICO**

PREPARED FOR:

**EOTT PIPELINE COMPANY
P. O. BOX
MIDLAND, TEXAS 79704**

Ms. Lennah Frost

PREPARED BY:

**ENVIRONMENTAL TECHNOLOGY GROUP, INC.
4600 WEST WALL STREET
MIDLAND, TEXAS 79704**

March 2000

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FIELD ACTIVITIES

GROUND WATER GRADIENT

LABORATORY RESULTS

SUMMARY

FIGURES

Figure 1 – Site Location Map

Figure 2 – Inferred Ground Water Gradient Map

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Table 1 – Ground Water Elevation

Table 2 – Ground Water Chemistry

APPENDICES

Appendix A – Laboratory Reports

INTRODUCTION

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

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FIELD ACTIVITIES

The site monitoring wells were gauged and sampled on January 23, June 3, September 10, and November 16, 1999. During each sampling event, the monitoring wells, designated to be sampled, were purged of approximately 3 well volumes of water or until the wells were dry using a PVC bailer or electrical Grundfos Pump. Groundwater was allowed to recharge and samples were obtained using disposable Teflon samplers. Monitoring 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, Hobbs, New Mexico, utilizing a licensed disposal facility (OCD AO SWD-730).

GROUNDWATER GRADIENT

Locations of the monitoring wells and the inferred ground water gradient, as measured on November 16, 1999, are depicted on Figure 2. The ground water elevation data are provided as Table 1. Groundwater elevation contours, generated from the final quarterly event of 1999 water level measurements, indicated a general gradient of approximately 0.002 ft/ft to the southeast. The depth to groundwater, as measured from the top of the well casing, ranged between 17.30 to 22.48 feet for the shallow alluvial aquifer.

A measurable thickness of PSH was detected in MW-7 during the quarterly sampling events. A maximum thickness of 0.05 was measured and is shown on Table 1.

LABORATORY RESULTS

Ground water samples obtained during the first and second sampling events were mailed to Xenco Laboratories in San Antonio, Texas. Ground water samples collected during the third and fourth event were hand delivered to Environmental Laboratory of Texas, Midland, Texas for determination of benzene, toluene, ethyl benzene and total xylenes (BTEX) concentrations by EPA Method SW846-8020 and 8021B. The ground water chemistry data are provided as Table 2 and the Laboratory Reports are provided as Appendix A.

Laboratory results for all of the site ground water samples, obtained during the 1999 annual period, indicated that BTEX concentrations were below detection limits for MW-5 and MW-6. Dissolved phase benzene concentrations were detected in the samples collected from monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-8 and ranged from 0.011 ml/L to 1.285 ml/L for the quarterly sampling events. The downgradient well, MW-6, has been below detection limits for BTEX during the annual monitoring period.

SUMMARY

This report presents the results of monitoring activities for the annual monitoring period of calendar year 1999. A measurable thickness of PSH was detected in MW-7 during the quarterly sampling events. A maximum thickness of 0.05 was measured and is shown on Table 1.

Laboratory results for all of the site ground water samples, obtained during the 1999 annual period, indicated that BTEX concentrations were below detection limits for MW-5 and MW-6. Dissolved phase benzene concentrations were detected in the samples collected from monitoring wells MW-1, MW-2, MW-3, MW-4, and MW-8 and ranged from 0.011 ml/L to 1.285 ml/L for the quarterly sampling events. The downgradient well, MW-6, has been below detection limits for BTEX during the annual monitoring period.

FIGURES



FIGURE
1

Not To Scale

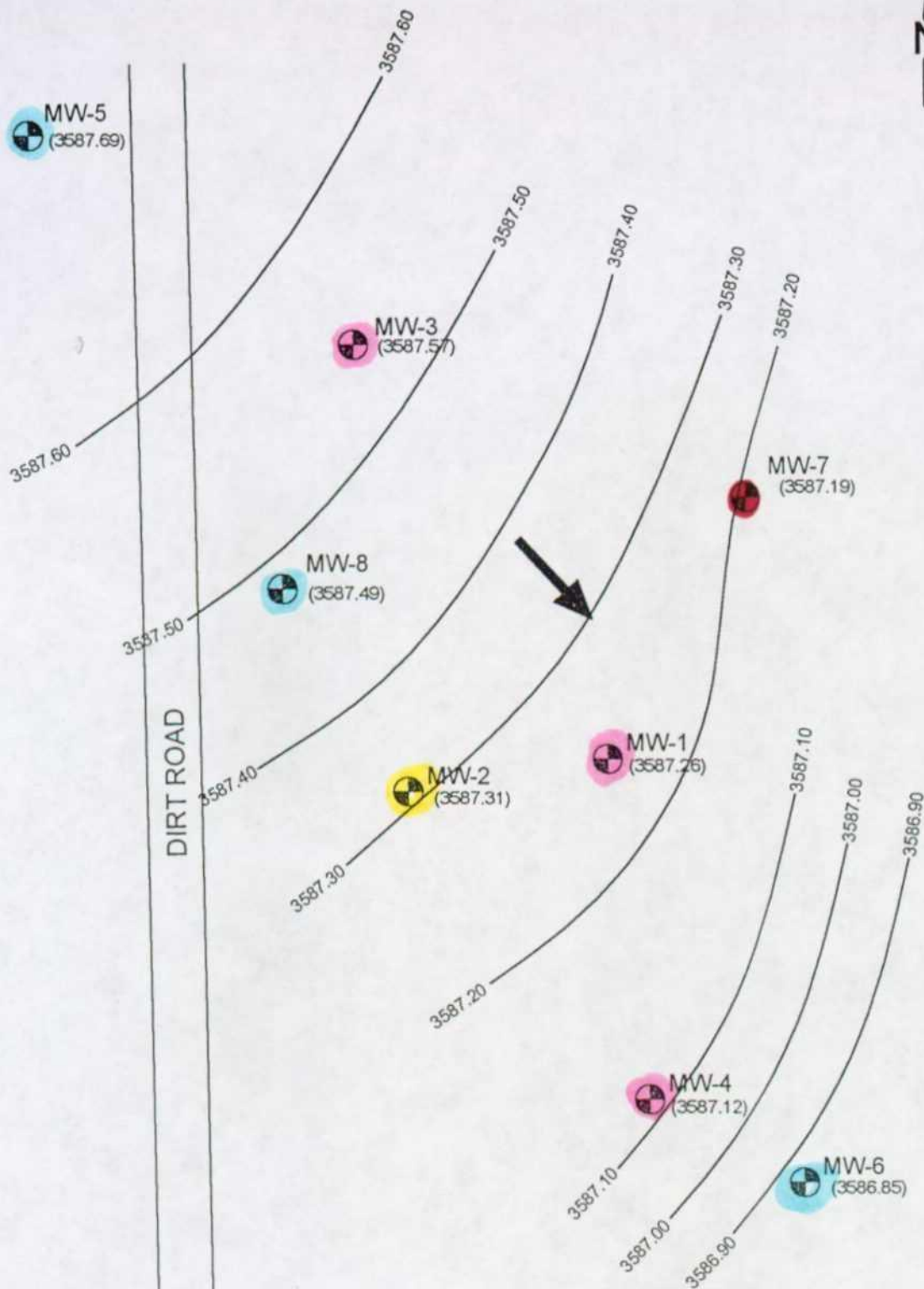
Site Location Map

EOTT Energy Corp.
Monument 17
Lea County, NM

Environmental
Technology
Group, Inc.

02 - 09 - 00 RS

ETGI Project # EOT 1015C



LEGEND:

-  Monitoring Well Locations
-  Ground Water Contour Lines

Figure 2
Inferred Ground Water
Contours 11/16/99
E.O.T.T. Energy
Monument 17
Lea County, NM



**Environmental Technology
Group, INC.**

Scale: 1" = 75'	Prep By: RS	Checked By: JT
February 8, 2000	ETGI Project # EOT 1015C	

TABLES

TABLE 1
GROUNDWATER ELEVATION TABLE
MONUMENT 17
LEA COUNTY, NM
ETGI PROJECT# EOT1015C

WELL NUMBER	DATE MEASURED	CASING WELL ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUNDWATER ELEVATION
MW-1	01/23/99	3,607.16	-	20.06	0.00	3,587.10
MW-1	06/03/99	3,607.16	-	19.54	0.00	3,587.62
MW-1	09/10/99	3,607.16	-	19.79	0.00	3,587.37
MW-1	11/16/99	3,607.16	-	19.90	0.00	3,587.26
MW-2	01/23/99	3,607.08	-	19.95	0.00	3,587.13
MW-2	06/03/99	3,607.08	-	19.41	0.00	3,587.67
MW-2	09/10/99	3,607.08	-	19.66	0.00	3,587.42
MW-2	11/16/99	3,607.08	-	19.77	0.00	3,587.31
MW-3	01/23/99	3,608.43	-	21.07	0.00	3,587.36
MW-3	06/03/99	3,608.43	-	20.48	0.00	3,587.95
MW-3	09/10/99	3,608.43	-	20.75	0.00	3,587.68
MW-3	11/16/99	3,608.43	-	20.86	0.00	3,587.57
MW-4	01/23/99	3,606.12	-	19.15	0.00	3,586.97
MW-4	06/03/99	3,606.12	-	18.64	0.00	3,587.48
MW-4	09/10/99	3,606.12	-	18.91	0.00	3,587.21
MW-4	11/16/99	3,606.12	-	19.00	0.00	3,587.12
MW-5	01/23/99	3,610.17	-	22.67	0.00	3,587.50
MW-5	06/03/99	3,610.17	-	22.09	0.00	3,588.08
MW-5	09/10/99	3,610.17	-	22.34	0.00	3,587.83
MW-5	11/16/99	3,610.17	-	22.48	0.00	3,587.69
MW-6	01/23/99	3,604.44	-	17.74	0.00	3,586.70
MW-6	06/03/99	3,604.44	-	17.30	0.00	3,587.14
MW-6	09/10/99	3,604.44	-	17.50	0.00	3,586.94
MW-6	11/16/99	3,604.44	-	17.59	0.00	3,586.85
MW-7	01/23/99	3,607.38	-	20.36	0.00	3,587.02
MW-7	06/03/99	3,607.38	19.86	19.88	0.02	3,587.52
MW-7	09/10/99	3,607.38	20.08	20.13	0.05	3,587.29
MW-7	11/16/99	3,607.38	20.19	20.21	0.02	3,587.19
MW-8	01/23/99	3,607.99	-	20.67	0.00	3,587.32
MW-8	06/03/99	3,607.99	-	20.10	0.00	3,587.89
MW-8	09/10/99	3,607.99	-	20.37	0.00	3,587.62
MW-8	11/16/99	3,607.99	-	20.50	0.00	3,587.49

TABLE 2
GROUND WATER CHEMISTRY
MONUMENT 17
LEA COUNTY, NEW MEXICO
ETGI PROJECT # EOT1015C

SAMPLE	SAMPLE DATE	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYLBENZENE (mg/L)	mp-XYLENE (mg/L)	o-XYLENE (mg/L)
MW-1	01/23/99	0.568	0.012	0.166	0.053	0.010
MW-1	06/03/99	0.135	0.008	0.007	0.011	0.005
MW-1	09/10/99	0.090	0.006	0.016	0.010	0.004
MW-1	11/16/99	0.119	0.006	0.005	0.007	0.003
MW-2	01/23/99	0.892	0.166	0.130	0.066	0.031
MW-2	06/03/99	0.024	<0.001	<0.001	<0.002	<0.001
MW-2	09/10/99	0.017	0.003	0.001	<0.001	<0.001
MW-2	11/16/99	0.007	0.001	<0.001	<0.001	<0.001
MW-3	01/23/99	<0.004	<0.004	<0.004	<0.008	<0.004
MW-3	06/03/99	0.048	0.002	0.002	<0.002	<0.001
MW-3	09/10/99	0.032	0.003	0.001	<0.001	0.001
MW-3	11/16/99	0.010	0.001	<0.001	<0.001	<0.001
MW-4	01/23/99	0.716	0.051	0.083	0.027	0.006
MW-4	06/03/99	<0.001	<0.001	<0.001	<0.002	<0.001
MW-4	09/10/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW-4	11/16/99	0.010	0.001	<0.001	<0.001	<0.001
MW-5	01/23/99	<0.004	<0.004	<0.004	<0.008	<0.004
MW-5	06/03/99	<0.001	<0.001	<0.001	<0.002	<0.001
MW-5	09/10/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW-5	11/16/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW-6	01/23/99	<0.004	<0.004	<0.004	<0.008	<0.004
MW-6	06/03/99	<0.001	<0.001	<0.001	<0.002	<0.001
MW-6	09/10/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW-6	11/16/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW-7	01/23/99	0.301	<0.004	<0.004	<0.008	<0.004
MW-8	01/23/99	0.061	<0.001	0.007	0.005	<0.001
MW-8	06/03/99	<0.001	<0.001	<0.001	<0.002	<0.001
MW-8	09/10/99	<0.001	<0.001	<0.001	<0.001	<0.001
MW-8	11/16/99	<0.001	<0.001	<0.001	<0.001	<0.001

NOTE: MW-7 contained PSH and was not sampled after 1Q99.

Methods: EPA SW 846-8020, 5030

APPENDIX A



11381 Meadowglen Suite L
Houston, Texas 77082-2647
(281) 589-0692 Fax: (281) 589-0695
Houston - Dallas - San Antonio - Latin America

January 28, 1999

Project Manager: Theresa Nix
KEI Consultants, Inc.
5309 Wurzbach Rd. Suite 100
San Antonio, TX 78238

Reference: XENCO Report No.: -90282
Project Name: TNMPL
Project ID: 610057-6-17
Project Address: Monument Site 17, NM

Dear Theresa Nix:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with XENCO Chain of Custody Number -90282.N All results being reported to you apply only to the samples analyzed, properly identified with a Laboratory ID number. This letter documents the official transmission of the contents of the report and validates the information contained within.

All the results for the quality control samples passed thorough examination. Also, all parameters for data reduction and validation checked satisfactorily. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly flagged.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 3 years in our archives and after that time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. -90282N will be filed for 60 days, and after that time they will be properly disposed of without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

XENCO operates under the A2LA guidelines. Our Quality System meets ISO/IEC Guide 25 requirements which is strictly implemented and enforced through our standard QA/QC procedures.

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Sincerely,


Eddie L. Clemons, II
QA/QC Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY.



ANALYTICAL CHAIN OF CUSTODY REPORT CHRONOLOGY OF SAMPLES

KEI Consultants, Inc.

XENCO COC#: -90282

Project Name: TNMPL

Date Received in Lab: Jan 26, 1999 10:10 by DH
XENCO contact : Carlos Castro/Karen Olson

Project ID: 610057-6-17

Project Manager: Theresa Nix

Project Location: Monument Site 17, NM

Date and Time									
Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Sample Collected	Addition Requested	Extraction	Analysis
1 MW-1	90282-001	BTEX	SW-846	ppm	10 days	Jan 23, 1999 11:20		Jan 27, 1999 by HL	Jan 27, 1999 18:08 by HL
2 MW-2	90282-002	BTEX	SW-846	ppm	10 days	Jan 23, 1999 11:30		Jan 27, 1999 by HL	Jan 27, 1999 18:28 by HL
3 MW-3	90282-003	BTEX	SW-846	ppm	10 days	Jan 23, 1999 11:00		Jan 27, 1999 by HL	Jan 27, 1999 18:44 by HL
4 MW-4	90282-004	BTEX	SW-846	ppm	10 days	Jan 23, 1999 12:05		Jan 27, 1999 by HL	Jan 27, 1999 19:02 by HL
5 MW-5	90282-005	BTEX	SW-846	ppm	10 days	Jan 23, 1999 12:20		Jan 27, 1999 by HL	Jan 27, 1999 19:20 by HL
6 MW-6	90282-006	BTEX	SW-846	ppm	10 days	Jan 23, 1999 11:10		Jan 27, 1999 by HL	Jan 27, 1999 19:38 by HL
7 MW-7	90282-007	BTEX	SW-846	ppm	10 days	Jan 23, 1999 11:55		Jan 27, 1999 by HL	Jan 27, 1999 19:56 by HL
8 MW-8	90282-008	BTEX	SW-846	ppm	10 days	Jan 23, 1999 11:45		Jan 27, 1999 by HL	Jan 27, 1999 14:49 by HL



CERTIFICATE OF ANALYSIS SUMMARY -90282

Project ID: 610057-6-17		KEI Consultants, Inc.		Date Received in Lab : Jan 26, 1999 10:10			
Project Manager: Theresa Nix		Project Name: TNMPL		Date Report Faxed: Jan 28, 1999			
Project Location: Monument Site 17, NM		XENCO contact : Carlos Castro/Karen Olson					
Analysis Requested	Lab ID: Field ID: Depth: Matrix: Sampled:	90282 001 MW-1 Liquid 01/23/99 11:20	90282 002 MW-2 Liquid 01/23/99 11:30	90282 003 MW-3 Liquid 01/23/99 11:00	90282 004 MW-4 Liquid 01/23/99 12:05	90282 005 MW-5 Liquid 01/23/99 12:20	90282 006 MW-6 Liquid 01/23/99 11:10
	BTEX	01/27/99	01/27/99	01/27/99	01/27/99	01/27/99	01/27/99
	EPA 8021B	R.L.	R.L.	R.L.	R.L.	R.L.	R.L.
	Benzene	ppm	ppm	ppm	ppm	ppm	ppm
		0.568 (0.004)	0.892 (0.004)	< 0.004 (0.004)	0.716 (0.004)	< 0.004 (0.004)	< 0.004 (0.004)
	Toluene						
Ethylbenzene							
m,p-Xylene							
o-Xylene							
Total BTEX		0.809	1.285	N.D.	0.883	N.D.	N.D.

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of KEI Consultants, Inc.. The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Eddie L. Clemons, II
QA/QC Manager



CERTIFICATE OF ANALYSIS SUMMARY -90282

Project ID: 610057-6-17

Project Manager: Theresa Nix

Project Location: Monument Site 17, NM

KEI Consultants, Inc.

Project Name: TNMPL

Date Received in Lab : Jan 26, 1999 10:10

Date Report Faxed: Jan 28, 1999

XENCO contact : Carlos Castro/Karen Olson

Analysis Requested

Analysis Requested	Lab ID:		90282 007		90282 008	
	Field ID:	Depth:	Matrix:	Sampled:	Matrix:	Sampled:
BTEX						
EPA 8021B						
Benzene						
Toluene						
Ethylbenzene						
m,p-Xylene						
o-Xylene						
Total BTEX						

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of KEI Consultants, Inc.. The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Eddie L. Clemmons, II
QA/QC Manager



Certificate Of Quality Control for Batch : 19A25A37

SW- 346 5030/3021B BTTEX

Date Validated: Jan 28, 1999 11:45

Date Analyzed: Jan 27, 1999 13:01

Analyst: HL

Matrix: Liquid

MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY														
Q.C. Sample ID 90231- 003	Parameter	[A]	[B]	[C]	[D]	[E]	Matrix	[F]	[G]	[H]	[I]	Qualifier		
		Sample Result ppm	Matrix Spike Result ppm	Matrix Spike Duplicate Result ppm	Matrix Spike Amount ppm	Detection Limit ppm	Limit	Relative Difference %	QC	QC	Matrix Spike Recovery Range %			
									Spike Relative Difference %	Matrix Spike Recovery %			M.S.D. Recovery %	
Benzene	< 0.0010	0.0861	0.0939	0.1000	0.0010	20.0	8.7	86.1	93.9	65-135				
Toluene	< 0.0010	0.0842	0.0936	0.1000	0.0010	20.0	10.6	84.2	93.6	65-135				
Ethylbenzene	< 0.0010	0.0834	0.0924	0.1000	0.0010	20.0	10.2	83.4	92.4	65-135				
m,p-Xylene	< 0.0020	0.1700	0.1890	0.2000	0.0020	20.0	10.6	85.0	94.5	65-135				
o-Xylene	< 0.0010	0.0864	0.0952	0.1000	0.0010	20.0	9.7	86.4	95.2	65-135				

Spike Relative Difference [F] = $200 \cdot (B-C)/(B+C)$

Matrix Spike Recovery [G] = $100 \cdot (B-A)/[D]$

M.S.D. = Matrix Spike Duplicate

M.S.D. Recovery [H] = $100 \cdot (C-A)/[D]$

N.D. = Below detection limit or not detected

All results are based on MDL and validated for QC purposes

Headman: Deller, G. and D. H. H. H. H.

Eddie L. Clemmons, II

QVQC Manager

SW- 846 5030/8021B BTEX

Date Validated: Jan 28, 1999 11:45

Analyst: HL

Date Analyzed: Jan 27, 1999 12:25

Matrix: Liquid

BLANK SPIKE ANALYSIS

Parameter	[A]	[B]	[C]	[D]	[E]	[F]	[G]
	Blank	Blank Spike	Blank	Detection	QC	LIMITS	Qualifier
	Result	Result	Spike		Blank Spike	Recovery	
	ppm	ppm	Amount		Recovery	Range	
			ppm	Limit	%	%	
Benzene	< 0.0010	0.0939	0.1000	0.0010	93.9	65-135	
Toluene	< 0.0010	0.0932	0.1000	0.0010	93.2	65-135	
Ethylbenzene	< 0.0010	0.0909	0.1000	0.0010	90.9	65-135	
m,p-Xylene	< 0.0020	0.1910	0.2000	0.0020	95.5	65-135	
o-Xylene	< 0.0010	0.0989	0.1000	0.0010	98.9	65-135	

 Blank Spike Recovery [E] = $100 \times (B-A)/(C)$

= Not calculated, data below detection limit

= Below detection limit

All results are based on MDL and validated for QC purposes only



 Eddie L. Clemons, II
 QA/QC Manager



- ☐ 11381 Meadowglenn, Suite L, Houston TX 77082 281-589-0692
☒ 5309 Wurzbach Road, Suite 104, San Antonio, TX 78238 210-509-3334
☐ 11078 Morrison Road, Suite D, Dallas, TX 75229 972-481-9999

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD
On-LINE Help & Technical Services at XENCO.com

989

Page / of /

Company COC No: Work Order No:

Company XENCO		Lab Only: 90202-88		Lab Only Additions							
Project Name TRMPL 610057-6-17		Project ID (210) 680-3767		Date							
Location MONUMENT SITE 17 NM		Project Director (PD) THELISA WID		Date							
Project Manager (PM) THELISA WID		Project Director (PD) THELISA WID		Date							
Fax Results to THELISA WID		Fax (210) 680-3763		Date							
Invoice to Accounting		Include Invoice with Final Report Attn PM		Date							
Must have a P.O. Bill to: 610057-6-17		P.O. No. 610057-6-17		Date							
Quote No. 610057-6-17		Call for a P.O.		Date							
Special DLs (RR I RR II DW QAPP See Lab PM Call Proj. PM)		Call Proj. PM		Date							
Specifications		Call Proj. PM		Date							
Sampler Name W. Ammer		Signature W. Ammer		Date							
Sample ID	Sampling Date	Time	Depth 3 ft	Molix A P SW	Composite	Grob	# Containers	Container Size	Type	Preservatives	
MW-1	1/23/99	1120	W	W	X	X	Z	V	GA	H	
MW-2	1/30	1130									
MW-3	1/100	1100									
MW-4	1205	1205									
MW-5	1220	1220									
MW-6	1110	1110									
MW-7	1155	1155									
MW-8	1145	1145									
Relinquished by (Initials and Signature)			Relinquished to (Initials and Signature)			Date & Time			Total Containers per COC		
W. Ammer			S. Ammer			1/23/99 1630			10319076854		
Final Report Due Date:			Final Report Due Date:			Rush TATs Fax Due:			Final Fax Due:		
Rush Charges are Pre-Approved upon Requesting them. All Terms Apply			Rush Charges are Pre-Approved upon Requesting them. All Terms Apply			Rush Charges are Pre-Approved upon Requesting them. All Terms Apply			Rush Charges are Pre-Approved upon Requesting them. All Terms Apply		

Preservatives - Various (V), HCl pH 2 (H), H₂SO₄ pH 2 (S), HNO₃ pH 2 (N), NaOH pH 12 (N), NaOH/Ascorbic Acid (NA), ZnAc/NaOH (ZA), (Cool, <4C) (C4), None (N), See Label (SL), Other (O)
SIZE: 4oz (4), 8oz (8), 32oz (32), 4lb (4), 5lb (5), 10lb (10), 20lb (20), 40lb (40), 80lb (80), 160lb (160), 320lb (320), 640lb (640), 1280lb (1280), 2560lb (2560), 5120lb (5120), 10240lb (10240), 20480lb (20480), 40960lb (40960), 81920lb (81920), 163840lb (163840), 327680lb (327680), 655360lb (655360), 1310720lb (1310720), 2621440lb (2621440), 5242880lb (5242880), 10485760lb (10485760), 20971520lb (20971520), 41943040lb (41943040), 83886080lb (83886080), 167772160lb (167772160), 335544320lb (335544320), 671088640lb (671088640), 1342177280lb (1342177280), 2684354560lb (2684354560), 5368709120lb (5368709120), 10737418240lb (10737418240), 21474836480lb (21474836480), 42949672960lb (42949672960), 85899345920lb (85899345920), 171798691840lb (171798691840), 343597383680lb (343597383680), 687194767360lb (687194767360), 1374389534720lb (1374389534720), 2748779069440lb (2748779069440), 5497558138880lb (5497558138880), 10995116277760lb (10995116277760), 21990232555520lb (21990232555520), 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11381 Meadowglen Suite L
Houston, Texas 77082-2647
(281) 589-0692 Fax: (281) 589-0695
Houston - Dallas - San Antonio - Latin America

June 9, 1999

Project Manager: S.Grover/T.Nix
KEI Consultants, Ltd.
5309 Wurzbach Rd. Suite 100
San Antonio, TX 78238

Reference: XENCO Report No.: -92249
Project Name: Monument 17
Project ID: 910095-1-0
Project Address: Monument, NM

Dear S.Grover/T.Nix:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with XENCO Chain of Custody Number -92249./ All results being reported to you apply only to the samples analyzed, properly identified with a Laboratory ID number. This letter documents the official transmission of the contents of the report and validates the information contained within.

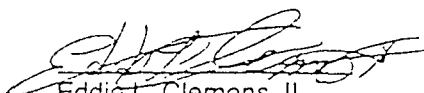
All the results for the quality control samples passed thorough examination. Also, all parameters for data reduction and validation checked satisfactorily. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly flagged.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 3 years in our archives and after that time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. -92249/ will be filed for 60 days, and after that time they will be properly disposed of without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

XENCO operates under the A2LA guidelines. Our Quality System meets ISO/IEC Guide 25 requirements which is strictly implemented and enforced through our standard QA/QC procedures.

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Sincerely,


Eddie L. Clemons, II
QA/QC Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994.

Certified and approved by numerous States and Agencies.

A Small Business and Minority Status Company that delivers SERVICE and QUALITY!



ANALYTICAL CHAIN OF CUSTODY REPORT CHRONOLOGY OF SAMPLES

KEI Consultants, Ltd.

XENCO COC#: -92249

Project Name: Monument 17

Project ID: 910095-1-0

Project Manager: S.Grover/T.Nix

Project Location: Monument, NM

Date Received in Lab: Jun 4, 1999 11:40 by DA

XENCO contact : Carlos Castro/Debbie Simmons

Field ID		Lab. ID	Method Name	Method ID	Units	Turn Around	Sample Collected	Addition Requested	Date and Time	
1	MW-1	92249-001	BTEX	SW-846	ppm	7 days	Jun 3, 1999 12:45		Jun 7, 1999 by HAL	Jun 7, 1999 16:07 by HA
2	MW-2	92249-002	BTEX	SW-846	ppm	7 days	Jun 3, 1999 13:30		Jun 7, 1999 by HAL	Jun 7, 1999 16:25 by HA
3	MW-3	92249-003	BTEX	SW-846	ppm	7 days	Jun 3, 1999 14:30		Jun 7, 1999 by HAL	Jun 7, 1999 17:00 by HA
4	MW-4	92249-004	BTEX	SW-846	ppm	7 days	Jun 3, 1999 11:30		Jun 7, 1999 by HAL	Jun 7, 1999 15:14 by HA
5	MW-5	92249-005	BTEX	SW-846	ppm	7 days	Jun 3, 1999 15:45		Jun 7, 1999 by HAL	Jun 7, 1999 15:32 by HA
6	MW-6	92249-006	BTEX	SW-846	ppm	7 days	Jun 3, 1999 12:15		Jun 7, 1999 by HAL	Jun 7, 1999 16:43 by HA
7	MW-8	92249-007	BTEX	SW-846	ppm	7 days	Jun 3, 1999 10:30		Jun 7, 1999 by HAL	Jun 7, 1999 14:39 by HA

CERTIFICATE OF ANALYSIS SUMMARY -92249

KEI Consultants, Ltd.

Project ID: 910095-1-0

Project Manager: S. Grover/T. Nix

Project Location: Monument, NM

Project Name: Monument 17

Date Received in Lab : Jun 4, 1999 11:40

Date Report Faxed: Jun 9, 1999

XENCO contact : Carlos Castro/Debbie Simmons

Analysis Requested	Lab ID: Field ID: Depth: Matrix: Sampled:	92249 001 MW-1 Liquid 06/03/99 12:45 ppm	92249 002 MW-2 Liquid 06/03/99 13:30 ppm	92249 003 MW-3 Liquid 06/03/99 14:30 ppm	92249 004 MW-4 Liquid 06/03/99 11:30 ppm	92249 005 MW-5 Liquid 06/03/99 15:45 ppm	92249 006 MW-6 Liquid 06/03/99 12:15 ppm
BTEX	Analyzed: Units:	0.135 (0.001)	0.024 (0.001)	0.048 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)
EPA 8021B		0.008 (0.001)	< 0.001 (0.001)	0.002 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)
Benzene		0.007 (0.001)	< 0.001 (0.001)	0.002 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)
Toluene		0.011 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)
Ethylbenzene		0.005 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)
m,p-Xylene		0.166	0.024	0.052	N.D.	N.D.	N.D.
o-Xylene							
Total BTEX							

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of KEI Consultants, Ltd.. The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.

Eddie L. Clemons, II
Eddie L. Clemons, II
QA/QC Manager

CERTIFICATE OF ANALYSIS SUMMARY -92249

Project ID: 910095-1-0
 Project Manager: S. Grover/T. Nix
 Project Location: Monument, NM

KEI Consultants, Ltd.
 Project Name: Monument 17

Date Received in Lab : Jun 4, 1999 11:40
 Date Report Faxed: Jun 9, 1999
 XENCO contact : Carlos Castro/Debbie Simmons

Analysis Requested	Lab ID:		92249 007 MW-8 Liquid 06/03/99 10:30					
	Field ID:	Dupli:						
BTEX								
EPA 8021B								
Benzene	Analyzed:	Units:	06/07/99	R.L.				
			ppm					
Toluene			< 0.001 (0.001)					
Ethylbenzene			< 0.001 (0.001)					
m,p-Xylene			< 0.001 (0.001)					
o-Xylene			< 0.002 (0.002)					
Total BTEX			< 0.001 (0.001)					
			N.D.					

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of KEI Consultants, Ltd..
 The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories.
 XENCO Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.


 Eddie L. Clemmons, II
 QA/QC Manager

Certificate of Quality Control for Batch : 19A25C47

SW- 346 5030/3021B BTEx

Date Validated: Jun 8, 1999 10:00

Analyst: HA

Date Analyzed: Jun 7, 1999 11:59

Matrix: Liquid

BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY

Parameter	[A]	[B]	[C]	[D]	[E]	Blank	[F]	[G]	[H]	[I]	Qualifier
	Blank Result ppm	Blank Spike Result ppm	Blank Spike Duplicate Result ppm	Blank Spike Amount ppm	Detection Limit ppm	Limit Relative Difference %	QC	QC	QC	Blank Spike Recovery Range %	
							Spike Relative Difference %	Blank Spike Recovery	B.S.D. Recovery		
Benzene	< 0.0010	0.1165	0.1058	0.1000	0.0010	20.0	9.6	116.5	105.8	65-135	
Toluene	< 0.0010	0.1182	0.1090	0.1000	0.0010	20.0	8.1	118.2	109.0	65-135	
Ethylbenzene	< 0.0010	0.1157	0.1046	0.1000	0.0010	20.0	10.1	115.7	104.6	65-135	
m,p-Xylene	< 0.0020	0.2302	0.2090	0.2000	0.0020	20.0	9.7	115.1	104.5	65-135	
o-Xylene	< 0.0010	0.1223	0.1103	0.1000	0.0010	20.0	10.3	122.3	110.3	65-135	

Spike Relative Difference [F] = $200 \times (B-C)/(B+C)$

Blank Spike Recovery [G] = $100 \times (B-A)/[D]$

B.S.D. = Blank Spike Duplicate

B.S.D. Recovery [H] = $100 \times (C-A)/[D]$

N.D. = Below detection limit or not detected

All results are based on MDL and validated for QC purposes

Eddie L. Clemmons, II
Eddie L. Clemmons, II

QA/QC Manager



- ☐ 11381 Meadowglenn, Suite L, Houston TX 77082 281-569-0692
☒ 5309 Wurzbach Road, Suite 104, San Antonio, TX 78238 210-509-3334
☐ 11078 Marlison Road, Suite D, Dallas, TX 75229 972-481-9999

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD
- On-Line Help & Technical Services at XENCO.com

614

Company COC No: 348 Work Order No: 9100951-0 Page 1 of 1

Company KET		Phone (210) 680-3767		Lab Only: # 92049-80		Lab Only Additions				
Project Name MONUMENT 17		Previously done at XENCO ☒		Project ID 9100951-0		Date Rcv By: From:				
Location MONUMENT, NM		Project Director (PD) S.G. ROVER/T.NEX		Fax Results to ☐ Pmt and / or ☐ Fax T. SAROIE		Date Rcv By: From:				
Project Manager (PM) S.G. ROVER/T.NEX		Invoice to ☐ Accounting ☐ Include Invoice with Final Report Alin PM ☐ Invoice must have a P.O. Bill to: (210) 680-3763 / (361) 643-4055		P.O. No. 9100951-0		Date Rcv By: From:				
Special DLs (RR I RR II DW QAPP See Lab PM Call Proj. PM)		Quote No.		Call for a P.O.		Date Rcv By: From:				
Specifications		Sampler Name Ken Burton		Signature <i>[Signature]</i>		Date Rcv By: From:				
Sample ID	Sampling Date	Time	Depth	Matrix	Composite	Grob	# Containers	Container Size	Type	Preservatives
MW-1	30 JUN 99	12:45		W		X	2	V	GA	H ₂ O ₂
MW-2		1330				X				
MW-3		1430				X				
MW-4		1130				X				
MW-5		1545				X				
MW-6		1215				X				
MW-8		1030				X				
Relinquished by (Initials and Signature) <i>[Signature]</i>			Relinquished to (Initials and Signature) <i>[Signature]</i>			Date & Time		Total Containers per COC: 14		
Rush TATs Fax Due: 30 Jun 99 16:30			Rush TATs Fax Due: 30 Jun 99 16:30			Final Report Data Package Due Date: 6/4/99 11:40		Final Fax Due: 6/4/99 11:40		
Lab: D. ARDREY VIA										
Preservatives - Variations (V), HCl pH 1-2 (H), H ₂ SO ₄ pH 1-2 (S), HNO ₃ pH 1-2 (N), NaOH pH 1-2 (N), NaOH/Asbc Acid (NAN), AAc/NaOH (ZA), (Cool, <4C) (C4), None (N), See Label (SL), Other (O)										
SIZE: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 1L (1), 500ml (-5), Tedlar Bag (B), Wipo (W), Other _____ TYPE Glass Amb (GA), Glass Clear (GC), Plastic (P), Other (O) _____										

GROUND WATER MONITORING AND SAMPLING DATA

JOB NO.: MONUMENT 17 FIELD TECHNICIAN: KD DATE: 10 SEP 99

WELL NO.	TIME WELL PURGED	TOTAL WELL DEPTH (feet)	DEPTH TO WATER (feet)	HEIGHT WATER COLUMN (feet)	WELL FACTOR 2"=16 4"=65 6"=1.5	CALC. WELL VOLUME (gal)	TOTAL WATER PURGED (gal)	ESTIMATED NO. WELL VOLUMES PURGED	TIME SAMPLE TAKEN/DATE	DEPTH TO PSH (feet)	PSH THICKNESS (feet)	SAMPLE CHARACTERISTIC
MW-1	1355	32.27	19.79	12.48	.16	1.99	5.99	3.0	9-10 1415		T 21.4	C 1096ms
CONDITION:	Cover:	Cap:	Casing:	Lock:	Manway/Pad:							
MW-2	1425	28.62	19.66	8.96	.16	1.43	4.30	3.0	9-10 1445		T 20.8	C 1096ms
CONDITION:	Cover:	Cap:	Casing:	Lock:	Manway/Pad:							
MW-3	1510	28.35	20.75	7.60	.16	1.21	3.64	3.0	1525		T 20.2	C 1109ms
CONDITION:	Cover:	Cap:	Casing:	Lock:	Manway/Pad:							
MW-4	1330	23.54	18.91	4.63	.16	0.74	2.22	3.0	9-10 1345		T 22.3	C 1133ms
CONDITION:	Cover:	Cap:	Casing:	Lock:	Manway/Pad:							
MW-5	1515	31.91	22.34	9.57	.16	1.53	4.59	3.0	9-10 1530		T 21.6	C 1086ms
CONDITION:	Cover:	Cap:	Casing:	Lock:	Manway/Pad:							
MW-6	1300	30.65	17.50	13.15	.16	2.10	6.31	3.0	9-10 1315		T 22.1	C 1093ms
CONDITION:	Cover:	Cap:	Casing:	Lock:	Manway/Pad:							
MW-7			20.13							20.08	0.05	
CONDITION:	Cover:	Cap:	Casing:	Lock:	Manway/Pad:							
MW-8	1450	31.65	20.37	11.28	.16	1.80	5.91	3.0	9-10 1505		T 20.7	C 1109ms
CONDITION:	Cover:	Cap:	Casing:	Lock:	Manway/Pad:							
CONDITION:	Cover:	Cap:	Casing:	Lock:	Manway/Pad:							
Total Removed:								32.46	gal.			

DRUMS ON SITE: _____ COMMENTS: _____
 CARBON DRUM TRAILER (yes/no): _____
 DISCHARGE SAMPLE (time/date): _____
 pH: _____

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

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

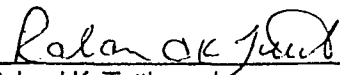
Sample Type: Water
Sample Condition: Intact/ Iced/HCl
Project #: Monument 17
Project Name: None Given
Project Location: Lea County, N.M.

Sampling Date: 09/10/99
Receiving Date: 09/11/99
Analysis Date: 09/11/99

ELT#	FIELD CODE	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYLBENZENE (mg/L)	m,p-XYLENE (mg/L)	o-XYLENE (mg/L)
19941	MW-1	0.090	0.006	0.016	0.010	0.004
19942	MW-2	0.017	0.003	0.001	<0.001	<0.001
19943	MW-3	0.032	0.003	0.001	<0.001	0.001
19944	MW-4	<0.001	<0.001	<0.001	<0.001	<0.001
19945	MW-5	<0.001	<0.001	<0.001	<0.001	<0.001
19946	MW-6	<0.001	<0.001	<0.001	<0.001	<0.001
19947	MW-8	<0.001	<0.001	<0.001	<0.001	<0.001

% IA	99	95	95	94	94
% EA	95	93	92	91	91
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: EPA SW 846-8020,5030


Raland K. Tuttle

9-14-99
Date

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Loc: Ø15

Phone #: (415) 664-9166

FAX #:

E76I

P.O. Box 4845 MIDLAND TX 79704

Project Name :

MONUMENT 17

Sampler Signature:

LEA COUNTY NM

Sampler Signature: Ken Sutton

[illegible]

Times:

Received by:

REMARKS

MAIL RESULTS

5

11

12/27

KEN DUTTON

புது

Received by:

1686 W. CHILL

1

1

88 212 5980A

1

Times:

Received by

2000A

INVOICE: LENNAX EAST PO #101514

GROUND WATER MONITORING AND SAMPLING DATA

JOB NO.: Monument 17

FIELD TECHNICIAN: SC

DATE: 11-16-99

WELL NO.	TIME WELL PURGED	TOTAL WELL DEPTH (feet)	DEPTH TO WATER (feet)	HEIGHT WATER COLUMN (feet)	WELL FACTOR 2"=16 4"=65 6"=15 4	CALC. WELL VOLUME (gal) (3x4)=5	TOTAL WATER PURGED (gal) 6	ESTIMATED NO. WELL VOLUMES PURGED G/S	TIME SAMPLE TAKE/DATE	DEPTH TO PSH (feet)	PSH THICKNESS (feet)	SAMPLE CHARACTERISTIC
MW1	1016	32.28	19.90	12.38	.16	1.98	5.94	3.0	1999 11-16 1150		T 20.5 ph 7.54	C 1121ms 0 93 mv
CONDITION: Cover: Casing: Lock: Manway/Pad:												
MW2	1007	28.60	19.77	8.83	.16	1.41	4.23	3.0	11-16 1139		T 20.4 ph 7.47	C 1137ms 0 95 mv
CONDITION: Cover: Casing: Lock: Manway/Pad:												
MW3	0947	28.35	20.86	7.49	.16	1.19	3.59	3.0	11-16 1116		T 19.7 ph 7.38	C 1110ms 0 41 mv
CONDITION: Cover: Casing: Lock: Manway/Pad:												
MW4	1030	23.35	19.00	4.35	.16	0.69	2.08	3.0	11-16 1212		T 20.1 ph 7.60	C 1238ms 0 40 mv
CONDITION: Cover: Casing: Lock: Manway/Pad:												
MW5	0931	31.94	22.48	9.46	.16	1.51	4.54	3.0	11-16 1101		T 19.8 ph 7.21	C 1088ms 0 72 mv
CONDITION: Cover: Casing: Lock: Manway/Pad:												
MW6	1044	30.48	17.59	12.89	.16	2.06	6.18	3.0	11-16 1225		T 20.1 ph 7.62	C 1108ms 0 79 mv
CONDITION: Cover: Casing: Lock: Manway/Pad:												
MW7			20.21							20.19	0.02	
CONDITION: Cover: Casing: Lock: Manway/Pad:												
MW8	0957	31.68	20.50	11.18	.16	1.78	5.36	3.0	11-16 1128		T 20.1 ph 7.44	C 1152ms 0 86 mv
CONDITION: Cover: Casing: Lock: Manway/Pad:												
CONDITION: Cover: Casing: Lock: Manway/Pad:												
Total Removed: 31.92 31.92 gnl.												

COMMENTS:

DRUMS ON SITE:

CARBON DRUM TRAILER: (yes/no)

DISCHARGE SAMPLE (time/date):

pH:

ENVIRONMENTAL LAB OF , INC.

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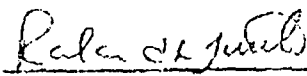
ETGI
ATTN: MR. JESSE TAYLOR
P.O. BOX 4845
MIDLAND, TEXAS 79704
FAX: 505-382-3780(Ken Dutton)

Sample Type: Water
Sample Condition: Intact/Iced/HCl
Project #: Monument 17
Project Name: EOT 1015C
Project Location: Monument, N.M.

Sampling Date: 11/18/99
Receiving Date: 11/17/99
Analysis Date: 11/17/99

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
21647	MW-1	0.119	0.006	0.005	0.007	0.003
21648	MW-2	0.007	0.001	<0.001	<0.001	<0.001
21649	MW-3	0.010	0.001	<0.001	<0.001	<0.001
21650	MW-4	<0.001	<0.001	<0.001	<0.001	<0.001
21651	MW-5	<0.001	<0.001	<0.001	<0.001	<0.001
21652	MW-6	<0.001	<0.001	<0.001	<0.001	<0.001
21653	MW-8	<0.001	<0.001	<0.001	<0.001	<0.001
% IA		98	101	94	94	94
% EA		104	99	99	103	99
BLANK		<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: SW 846-8021,5030


Roland K. Tuttle

11-19-99
Date

ENVIRONMENTAL

LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

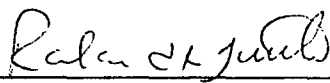
ETGI
ATTN: MR. JESSE TAYLOR
P.O. BOX 4845
MIDLAND, TEXAS 79704
FAX: 505-392-3760(Ken Dutton)

Sample Type: Water
Sample Condition: intact/Iced/HCl
Project #: Monument 17
Project Name: EOT 1015C
Project Location: Monument, N.M.

Sampling Date: 11/16/99
Receiving Date: 11/17/99
Analysis Date: 11/17/99

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
21647	MW-1	0.119	0.006	0.005	0.007	0.003
21648	MW-2	0.007	0.001	<0.001	<0.001	<0.001
21649	MW-3	0.010	0.001	<0.001	<0.001	<0.001
21650	MW-4	<0.001	<0.001	<0.001	<0.001	<0.001
21651	MW-5	<0.001	<0.001	<0.001	<0.001	<0.001
21652	MW-6	<0.001	<0.001	<0.001	<0.001	<0.001
21653	MW-8	<0.001	<0.001	<0.001	<0.001	<0.001
% IA		98	101	94	94	94
% EA		104	99	99	103	99
BLANK		<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: SW 846-8021,5030


Raland K. Tuttle

11-19-99
Date