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OIL CONSERVATION DIVISION**

SUBSURFACE INVESTIGATION REPORT

TEXAS - NEW MEXICO PIPE LINE COMPANY

TNM-97-16

LEA COUNTY, NEW MEXICO



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SUBSURFACE INVESTIGATION REPORT

TEXAS - NEW MEXICO PIPE LINE COMPANY
TNM-97-16
LEA COUNTY, NEW MEXICO

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KEI

A handwritten signature in cursive script that reads 'Theresa Nix'.

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Senior Engineer

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EXECUTIVE SUMMARY

The Texas - New Mexico Pipe Line Company (TNMPL) release site TNM-97-16 is located in Lea County, New Mexico in the NE/4, NW/4, Section 12, Township 24 South, Range 37 East. A site location map is presented as FIG. 1. This report summarizes the subsurface investigation activities conducted at the site during October of 1997.

Subsurface investigation activities performed included the following:

- advancing two soil borings (designated SB-1 and SB-2)
- installing three monitoring wells (designated MW-1 through MW-3)
- installing one water supply well (WW-1)
- collection of native soil samples from the monitoring wells and water well for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX) and total petroleum hydrocarbons (TPH) concentrations
- collection and analysis of an unimpacted native soil sample for determination of organic carbon content
- gauging ground water and phase-separate hydrocarbon (PSH) levels in monitoring wells MW-1 through MW-3 and water well WW-1
- collecting ground water samples from monitoring wells MW-1 through MW-3 and water well WW-1 for analysis of BTEX and semi-volatile organic compounds (SVOCs)
- collecting ground water samples from the north and south windmill wells for analysis of BTEX and TPH concentrations

The following conclusions are based on the data presented in this report:

- The closure standards for soil impact were determined to be as follows:

CONSTITUENT	CLOSURE CONCENTRATIONS (mg/kg)
BENZENE	10
BTEX	50
TPH	100 + Background Concentration

- Soil samples at the site indicated benzene, BTEX, and TPH concentrations below closure standards.
- PSH was not observed in any of the monitoring or water wells.
- Ground water samples at the site indicated BTEX concentrations below New Mexico Environment Department (NMED) Drinking Water Standards. The NMED Drinking Water Standards for BTEX are as follows:

CONSTITUENT	DRINKING WATER STANDARD (mg/l)
BENZENE	0.01
TOLUENE	0.75
ETHYLBENZENE	0.75
XYLENES	0.62

PURPOSE AND SCOPE

The objective of the subsurface investigation activities was to delineate hydrocarbon impact across the site. The following activities were performed to achieve this objective:

- install monitoring wells upgradient and downgradient from the release location
- collect soil samples for analysis of hydrocarbon concentrations
- collect ground water samples for analysis of hydrocarbon concentrations

FIELD INVESTIGATION

SOIL INVESTIGATION

During the subsurface investigation, three monitoring wells (designated MW-1 through MW-3), one water supply well (designated WW-1), and two soil borings (designated SB-1 and SB-2) were installed utilizing air rotary technology. Soil samples were collected at selected intervals from the ground surface to termination boring depth. The soils were classified in the field, soil samples were field screened, and selected samples from the wells and borings were prepared and shipped to the laboratory for analysis.

Upon advancement to total depth and collection of soil samples, a permanent well consisting of two-inch perforated PVC and blank riser was placed in the open hole of each boring designated as a permanent monitoring well. A permanent well consisting of six-inch perforated PVC and blank riser was placed in the open hole of the boring designated as a permanent water supply well.

All drilling and sampling equipment was cleaned prior to first use, between boring locations, and between sampling intervals with a Liqui-Nox detergent wash followed by a distilled water rinse.

The monitoring and water well locations were surveyed by a Professional Land Surveyor registered in the State of New Mexico. The locations of the monitoring wells and water supply well installed are presented on FIG. 2.

SOIL DESCRIPTION

The subsurface soil profile was classified in general accordance with the Unified Soil Classification System by visually observing the soil samples obtained during the assessment. In general, four soil types were encountered. A general description of the soil, approximate thickness, and head-space sample results for each soil type are as follows:

Soil Type I

This soil type consisted of topsoil encountered at the surface of monitoring well MW-1 and water supply well WW-1 locations. This soil type thickness averaged approximately one foot. No head-space readings were obtained from this soil type.

Soil Type II

This soil type consisted of gray to brown sand, and was encountered at all soil boring locations except monitoring well MW-3, either at the surface or underlying Soil Type I. The sand was fine-grained and contained occasional calcareous nodules. Observed thickness of this soil type ranged from approximately 2 to 9 feet. Head-space readings taken from samples of this soil type were below detection limits (ND).

Soil Type III

This soil type consisted of reddish-brown clay encountered at the surface at monitoring well MW-3 and beneath Soil Type II at soil boring locations SB-1, MW-1, MW-2, and MW-3. This clay was sandy and moist. This soil type varied in thickness from 1.5 to 11 feet. Head-space readings taken from samples of this soil type were ND.

Soil Type IV

This soil type consisted of a reddish-brown sand and was encountered as lenses within Soil Type III at soil boring locations MW-1, MW-2, and WW-1 and at the bottom of MW-3. The sand was moist and intermixed with gravel. This soil type varied in thickness from 1 to 14 feet. Head-space readings taken from samples of this soil type were ND.

Logs indicating the typical subsurface soil profile, depths at which soil samples were obtained, head-space results, laboratory results, and generalized geologic profiles are presented in APPENDIX A.

SOIL SAMPLING AND ANALYTICAL RESULTS

Native soil samples were collected at selected intervals from the ground surface to a depth of approximately two feet below ground water by pushing a split spoon sampler. The soil samples were used to evaluate water levels and the distribution of phase-separate hydrocarbons.

Representative soil samples were divided into two separate portions using clean, disposable gloves and clean sampling tools. One portion of the soil sample was placed in a disposable sample bag. The bag was labeled and sealed for head-space analysis using a photo-ionization detector (PID) calibrated to a 100 ppm isobutylene standard. Each sample was allowed to volatilize for approximately 30 minutes at ambient temperature prior to conducting the PID analysis.

The other portion of the soil sample was placed in a sterile glass container equipped with a Teflon-lined lid furnished by the analytical laboratory. The container was filled to capacity with soil to limit the amount of head-space present. Each container was labeled and placed on ice in an insulated cooler. Upon selection of samples for analysis, the cooler was sealed for shipment to the laboratory. Proper chain-of-custody documentation was maintained throughout the sampling process.

One to two soil samples were selected from each soil boring based on the following criteria:

- The sample with the highest head-space reading,
- The sample between 10 and 12 feet below ground surface, or
- The sample directly above the ground water level measured at the time of drilling.

Eleven soil samples from the soil borings, monitoring wells, and water well were selected for determination of TPH and BTEX concentrations by EPA modified Method 8015 Diesel Range Organics (DRO) and SW846-80200, respectively. One soil sample collected from MW-1 was selected and submitted for determination of organic content by ASTM Method D2974.

Laboratory results for the selected samples indicated the following concentration ranges:

CONSTITUENT	CONCENTRATIONS (mg/kg)
BENZENE	ND
BTEX	ND
TPH	ND to 23.3

Soil laboratory results are summarized in TABLES I and II. BTEX and TPH laboratory results are also graphically presented on FIG. 3. Soil analytical laboratory reports are included in APPENDIX B.

GROUND WATER SAMPLING AND ANALYTICAL RESULTS

Upon completion of drilling and then approximately once a month, each well was gauged to determine the depth to ground water and the PSH thickness. Ground water depth during the October 20, 1997, gauging event indicated the depth to ground water in the monitoring wells varied from 20.12 to 20.86 feet below the ground surface and PSH was not observed in any of the wells. Ground water elevations indicate an approximate gradient of 0.048 ft/ft towards the south. Ground water contours are presented on FIG. 5. Ground water measurements are summarized in TABLE III.

On October 20, 1997, each monitoring well was purged of approximately three well volumes of water using a PVC bailer. The bailer was cleaned prior to each use with Liqui-Nox detergent and rinsed with water. After purging the wells, ground water samples were collected from the monitoring wells and water well WW-1 with a disposable Teflon sampler and polyethylene line. Ground water samples were also collected from the north and south windmill water wells with a disposable Teflon sampler and polyethylene line.

Water samples collected for BTEX analyses were placed in sterile, 40 ml glass VOA vials equipped with Teflon-lined caps. Water samples collected for SVOCs analysis were placed in sterile one liter glass containers equipped with Teflon-lined caps. Water samples collected for TPH analysis were placed in 500 ml containers equipped with Teflon-lined caps. The containers were provided by the analytical laboratory. The vials were filled to a positive meniscus, sealed, and visually checked for the presence of air bubbles.

The filled containers were labeled and placed on ice in an insulated cooler. The cooler was sealed for express delivery to Xenco Laboratories in San Antonio, Texas for determination of BTEX and SVOCs concentrations using EPA Method SW846-8020 and 8270, respectively.

The water samples collected from the north and south windmill water wells were submitted for determination of BTEX and TPH concentrations using EPA Method SW846-8020 and 8015 Diesel Range Organics. Proper chain-of-custody documentation was maintained throughout the sampling process.

Laboratory results indicated the following concentration ranges:

CONSTITUENT	CONCENTRATIONS (mg/L)
BENZENE	ND to 0.003
BTEX	ND to 0.019
DIETHYLPHTHALATE	ND to 0.388

SVOCs constituents not listed above were all ND. Ground water laboratory results are summarized in TABLES IV and V. BTEX laboratory results are graphically presented on FIG. 4. Ground water analytical laboratory reports are included in APPENDIX C.

Purged water collected during the event was stored in steel drums pending disposal.

CONCLUSIONS

The following conclusions are based on the data presented in this report:

- The soil closure standards were determined to be as follows:

CONSTITUENT	CLOSURE CONCENTRATIONS (mg/kg)
BENZENE	10
BTEX	50
TPH	100 + Background Concentration

- Soil samples obtained at the site indicated benzene, BTEX, and TPH concentrations below closure standards.
- PSH was not observed in any of the monitoring wells or water well.
- Ground water samples obtained from the monitoring wells and water well indicated benzene and BTEX concentrations below New Mexico Drinking Water Standards which are presented below:

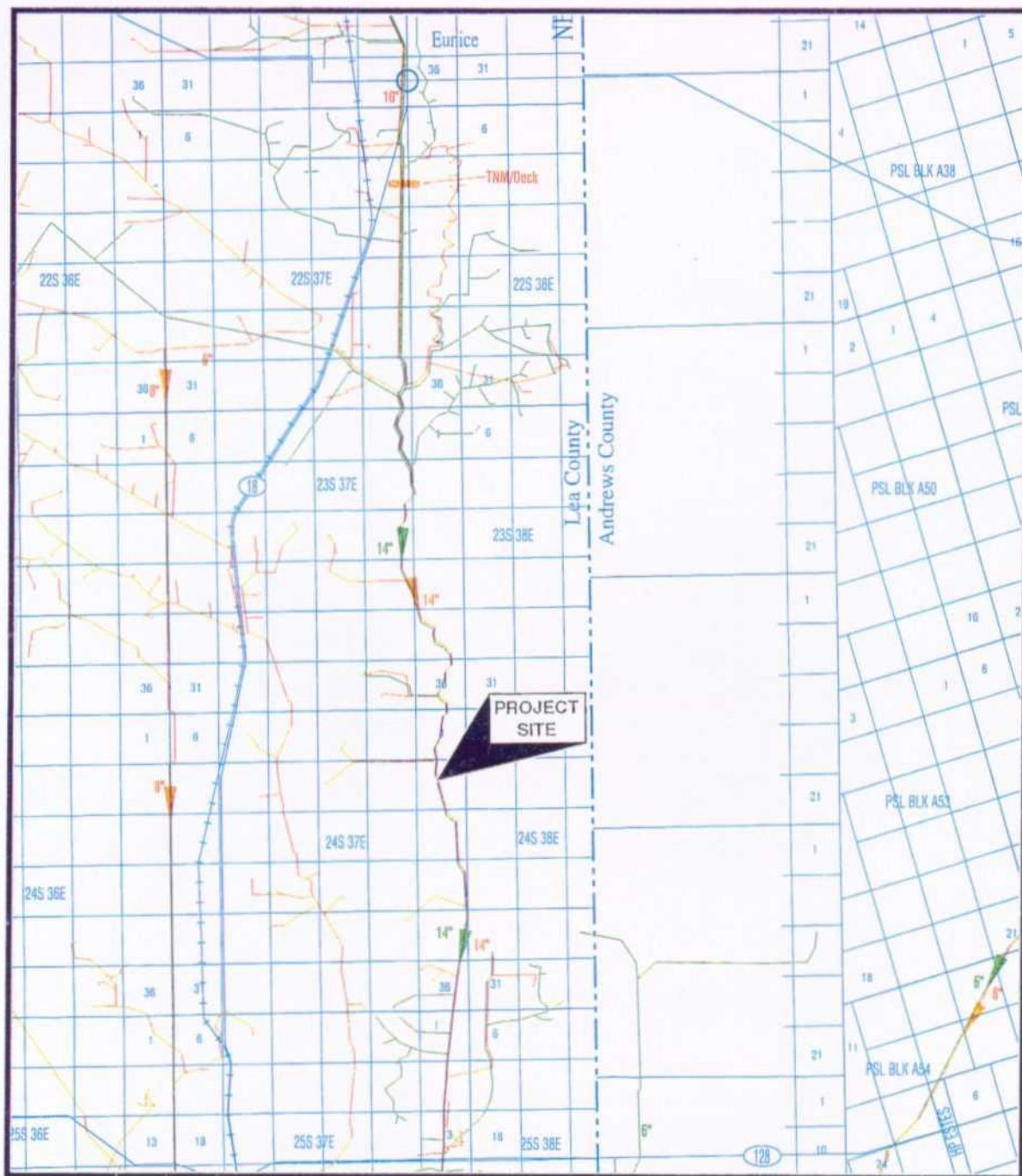
CONSTITUENT	DRINKING WATER STANDARD (mg/l)
BENZENE	0.01
TOLUENE	0.75
ETHYLBENZENE	0.75
XYLENES	0.62

- The ground water gradient appears to be approximately 0.048 ft/ft towards the south.

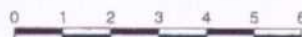
Crude Oil Atlas of West Texas and South East New Mexico

Texas-New Mexico Pipe Line Company

Map 6



Scale in Miles



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SITE LOCATION MAP

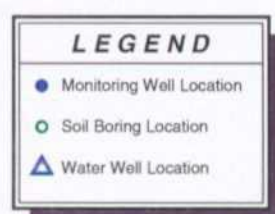
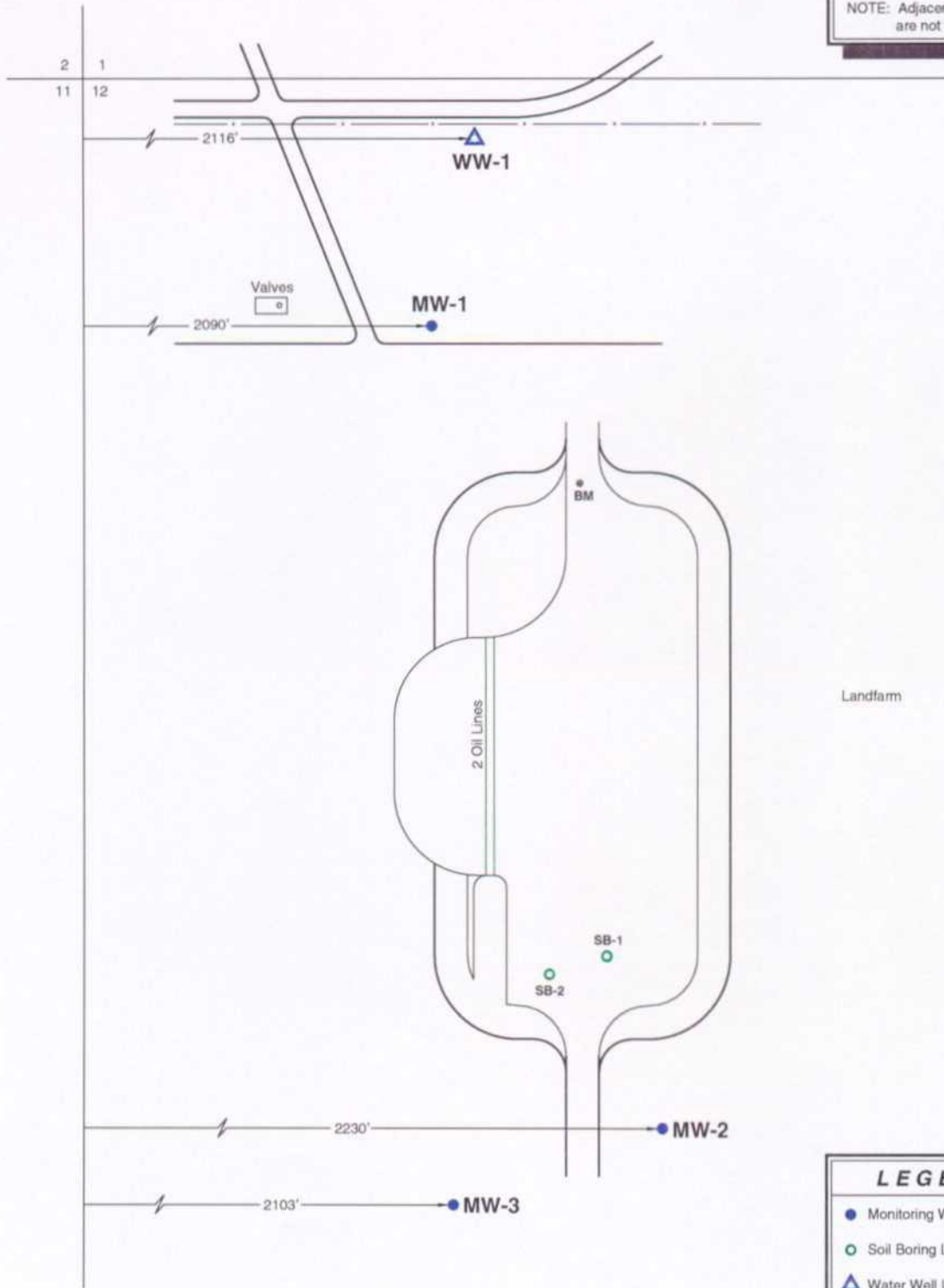
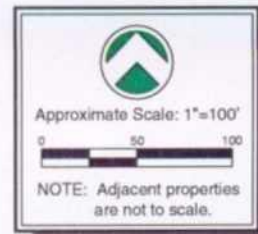
TNMPL

TNM-97-16

LEA COUNTY, NEW MEXICO

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FIG 1

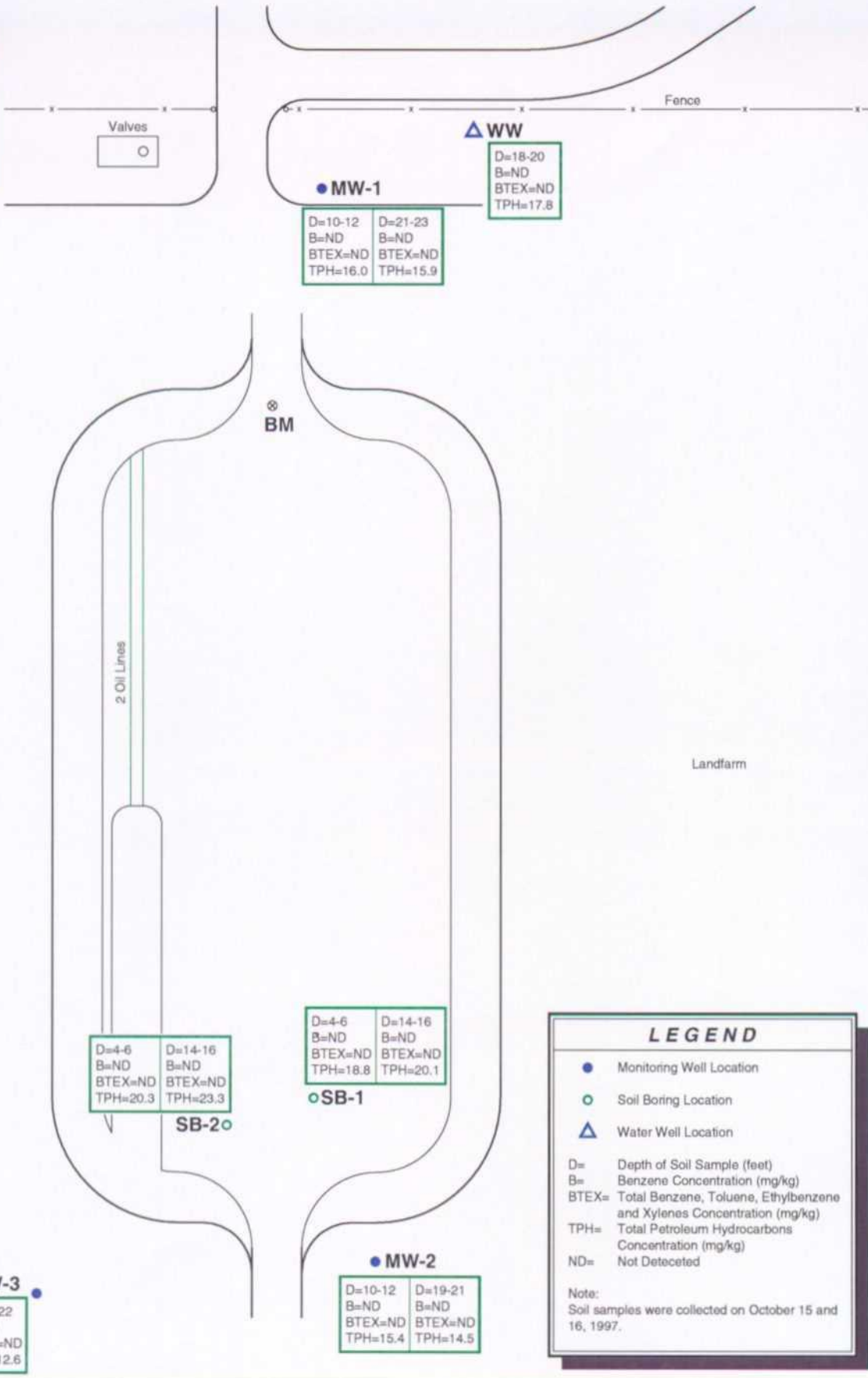


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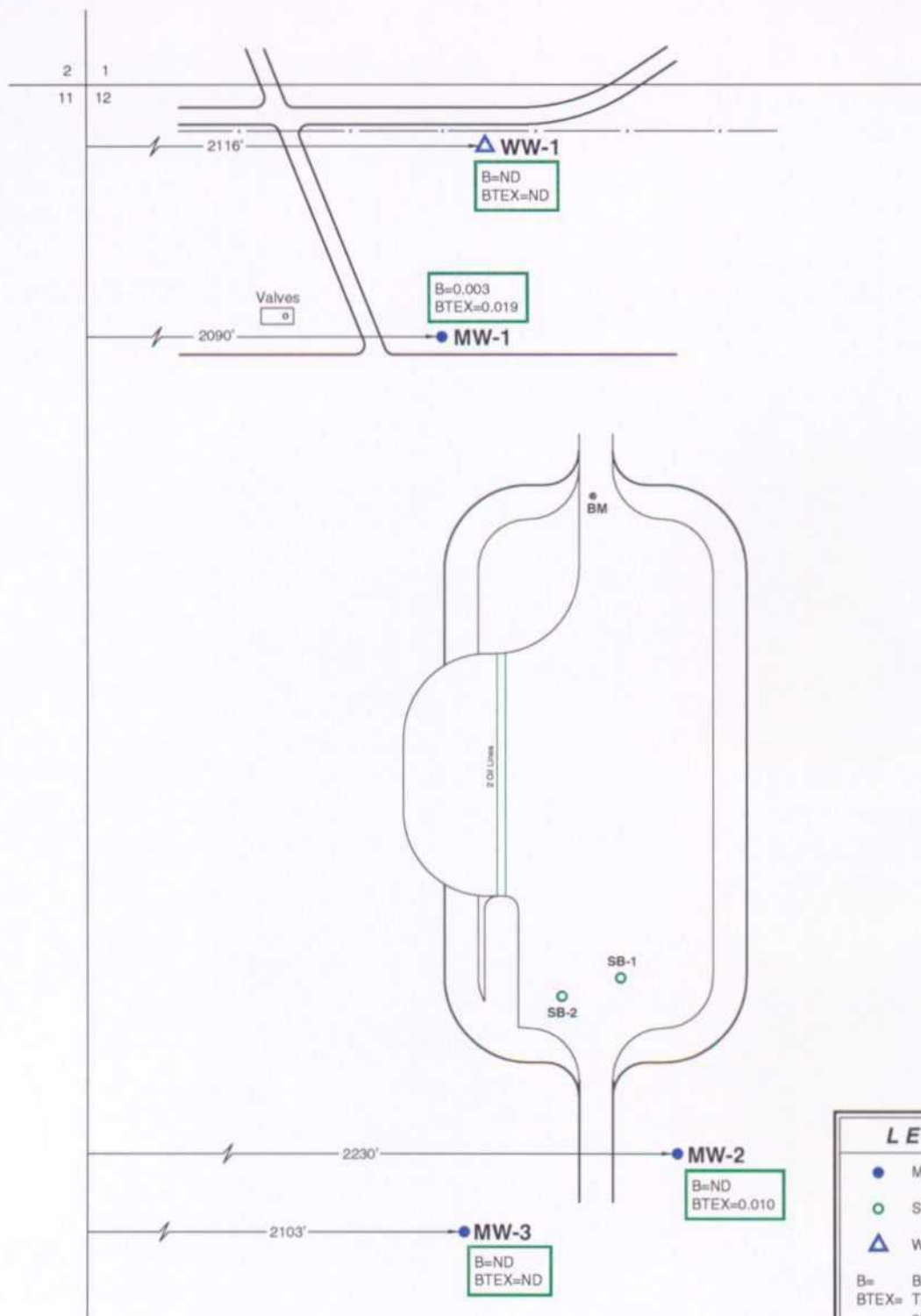
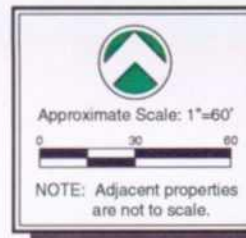
	SITE DETAILS			710034
	TNMPL	TNM-97-16	LEA COUNTY, NEW MEXICO	FIG 2

Approximate Scale: 1"=60'

NOTE: Adjacent properties are not to scale.



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LEGEND

- Monitoring Well Location
- Soil Boring Location
- △ Water Well Location

B= Benzene Concentration (mg/l)
 BTEX= Total Benzene, Toluene, Ethylbenzene and Xylenes Concentration (mg/l)
 ND= Not Detected

NOTE:
 Ground water samples were collected on
 October 20, 1997.

03/02/97 RM G:\71340\WCM

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GROUND WATER CONCENTRATION MAP

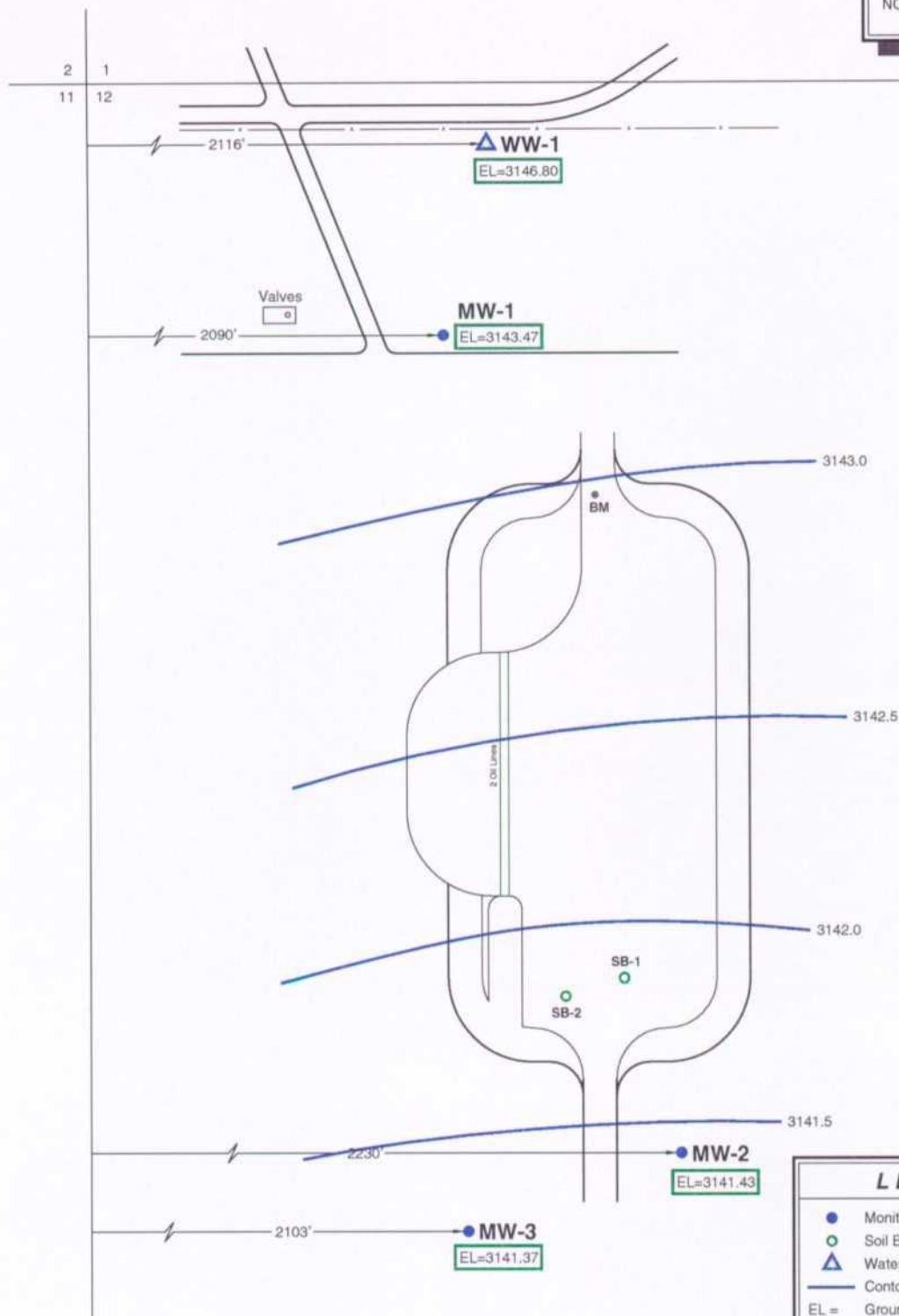
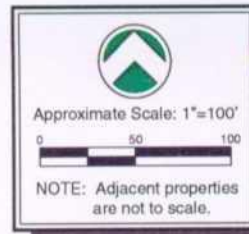
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LEA COUNTY, NEW MEXICO

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FIG 4



00113598 RM G-1(710034GW)



GROUND WATER CONTOURS - OCTOBER 20, 1997

TNMPL

TNM-97-16

LEA COUNTY, NEW MEXICO

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FIG 5

ND - Indicates constituent was not detected above the method detection limit.

--- - Indicates PSH was not observed and a corrected ground water elevation was not required (TABLE III) and constituent was not analyzed (TABLE IV).

Method detection or reporting limits:

Soil: BTEX - 0.020 to 0.120 mg/kg
TPH - 10 mg/kg

Water: BTEX - 0.001 to 0.006 mg/l
 SVOC - 0.010 to 0.025 mg/l

Laboratory test methods: BTEX - EPA Method SW846-8020
TPH - Modified EPA Method 8015 Diesel Range Organics
SVOC - EPA Method 8270
Organic Content - ASTM D2974

TABLE I

SUMMARY OF SOIL LABORATORY RESULTS - BTEX AND TPH
 TEXAS - NEW MEXICO PIPE LINE COMPANY
 TNM-97-16
 LEA COUNTY, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	DEPTH (feet)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENES (mg/kg)	TOTAL BTEX (mg/kg)	TPH (mg/kg)
MW-1	10/16/97	10 - 12	ND	ND	ND	ND	ND	16.0
MW-1	10/16/97	21 - 23	ND	ND	ND	ND	ND	15.9
MW-2	10/15/97	10 - 12	ND	ND	ND	ND	ND	15.4
MW-2	10/15/97	19 - 21	ND	ND	ND	ND	ND	14.5
MW-3	10/15/97	10 - 12	ND	ND	ND	ND	ND	10.6
MW-3	10/15/97	20 - 22	ND	ND	ND	ND	ND	12.6
WW-1	10/16/97	18 - 20	ND	ND	ND	ND	ND	17.8
SB-1	10/15/97	4 - 6	ND	ND	ND	ND	ND	18.8
SB-1	10/15/97	14 - 16	ND	ND	ND	ND	ND	20.1
SB-2	10/15/97	4 - 6	ND	ND	ND	ND	ND	20.3
SB-2	10/15/97	14 - 16	ND	ND	ND	ND	ND	23.3

TABLE II

**SUMMARY OF SOIL LABORATORY RESULTS - ORGANIC CONTENT
TEXAS - NEW MEXICO PIPE LINE COMPANY
TNM-97-16
LEA COUNTY, NEW MEXICO**

SAMPLE LOCATION	SAMPLE DATE	DEPTH (feet)	ORGANIC CONTENT (%)
MW-1	10/16/97	17 - 19	1.1

TABLE III

**MONITORING WELL MW-1
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
TNM-97-16
LEA COUNTY, NEW MEXICO**

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
10/20/97	3163.59	20.12	3143.47	---	---
11/04/97	3163.59	20.20	3143.39	---	---
12/02/97	3163.59	20.12	3143.47	---	---
01/01/98	3163.59	20.07	3143.52	---	---
01/14/98	3163.59	20.08	3143.51	---	---

TABLE III
(continued)

MONITORING WELL MW-2
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
TNM-97-16
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
10/20/97	3162.29	20.86	3141.43	---	---
11/04/97	3162.29	20.98	3141.31	---	---
12/02/97	3162.29	20.93	3141.36	---	---
01/01/98	3162.29	20.89	3141.40	---	---
01/14/98	3162.29	20.84	3141.45	---	---

TABLE III
(continued)

**MONITORING WELL MW-3
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
TNM-97-16
LEA COUNTY, NEW MEXICO**

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
10/20/97	3162.15	20.78	3141.37	---	---
11/04/97	3162.15	20.88	3141.27	---	---
12/02/97	3162.15	20.84	3141.31	---	---
01/01/98	3162.15	20.80	3141.35	---	---
01/14/98	3162.15	20.78	3141.37	---	---

TABLE III
(continued)

WATER WELL WW-1
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
TNM-97-16
LEA COUNTY, NEW MEXICO

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
10/20/97	3164.988	18.19	3146.80	---	---
11/04/97	3164.988	20.96	3144.03	---	---
12/02/97	3164.988	20.93	3144.06	---	---
01/01/98	3164.988	20.88	3144.11	---	---
01/14/98	3164.988	20.88	3144.11	---	---

TABLE IV

**SUMMARY OF GROUND WATER LABORATORY RESULTS - BTEX AND TPH
TEXAS - NEW MEXICO PIPE LINE COMPANY
TNM-97-16
LEA COUNTY, NEW MEXICO**

MONITORING WELL NO.	DATE SAMPLED	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYL- BENZENE (mg/l)	XYLENES (mg/l)	BTEX (mg/l)	TPH (mg/l)
MW-1	10/20/97	0.003	0.003	0.003	0.010	0.019	---
MW-2	10/20/97	ND	0.002	0.001	0.007	0.010	---
MW-3	10/20/97	ND	ND	ND	ND	ND	---
VW-1	10/20/97	ND	ND	ND	ND	ND	---
SOUTH WINDMILL	10/20/97	ND	0.002	ND	ND	0.002	ND
NORTH WINDMILL	10/20/97	ND	0.002	0.001	0.005	0.008	ND

TABLE V

**SUMMARY OF GROUND WATER LABORATORY RESULTS - SVOCs
TEXAS - NEW MEXICO PIPE LINE COMPANY
TNM-97-16
LEA COUNTY, NEW MEXICO**

SAMPLE LOCATION	MW-1	MW-2	MW-3	WW-1
DATE SAMPLED	10/20/97	10/20/97	10/20/97	10/20/97
PARAMETER:	CONCENTRATION (mg/l)			
Diethylphthalate	ND	0.388*	ND	ND

NOTES:

1. * Indicates the result was beyond calibration limits.
2. All constituents not listed above were ND.

LEGEND



Sand (SM), fine-grained, dry to moist, gray to brown, calcareous nodules.



Clay (CL), sandy, moist, reddish-brown.



Sand (SM), fine-grained, dry to wet, reddish brown, contains some gravel.



Indicates sample interval. Sample was obtained by pushing a split spoon sampler.



Indicates sample selected for laboratory analysis.

B = Benzene Concentration (mg/kg)

BTEX = Total BTEX Concentration (mg/kg)

TPH = Total Petroleum Hydrocarbon Concentration (mg/kg)

PID = Head-space readings in ppm obtained with a photoionization detector.

ND = Indicates the concentration was below laboratory detection limits.



Indicates the ground water level measured during drilling.

NOTES:

1. The soil borings were advanced on October 15, 1997 using an air rotary rig.
2. The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
3. The depths indicated are referenced from the ground surface.
4. The soil borings were backfilled with a cement/bentonite grout and capped at the surface.

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LEGEND AND NOTES FOR SOIL BORINGS

TNMPL

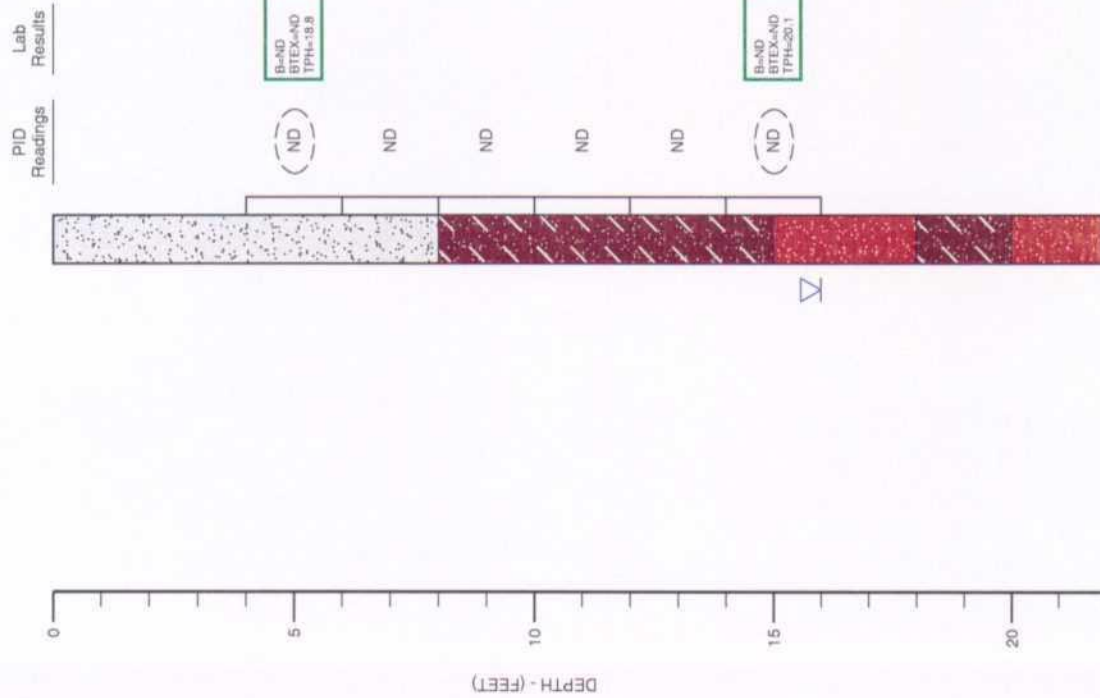
TNM-97-16

LEA COUNTY, NEW MEXICO

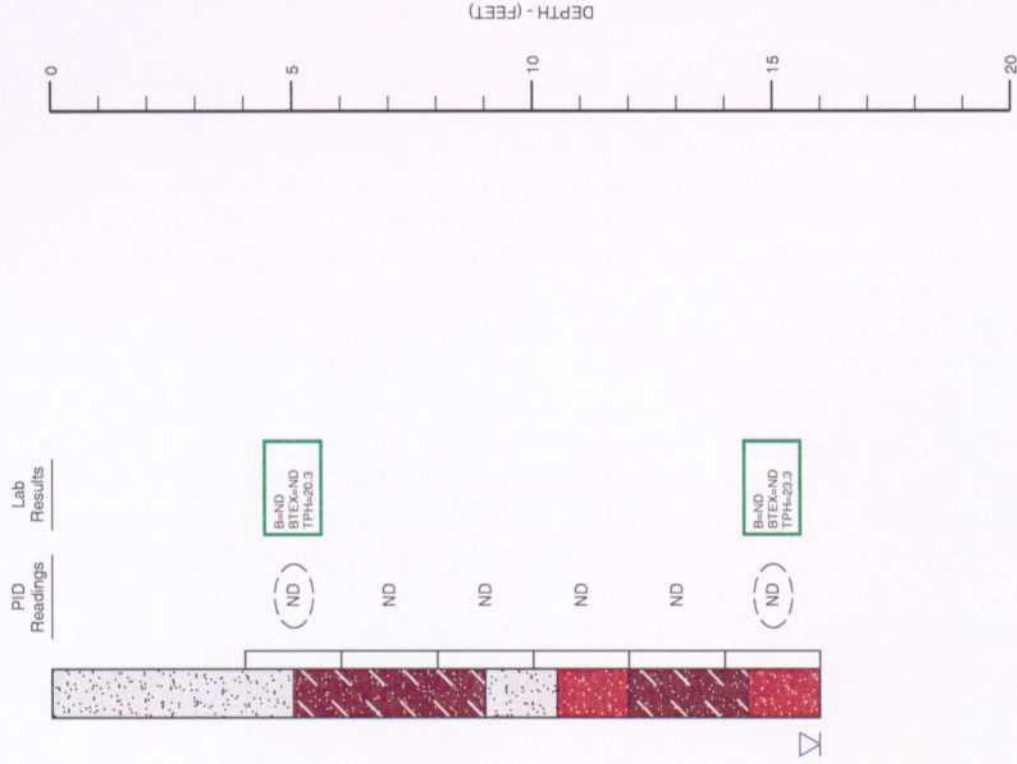
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APPENDIX A

SB-1

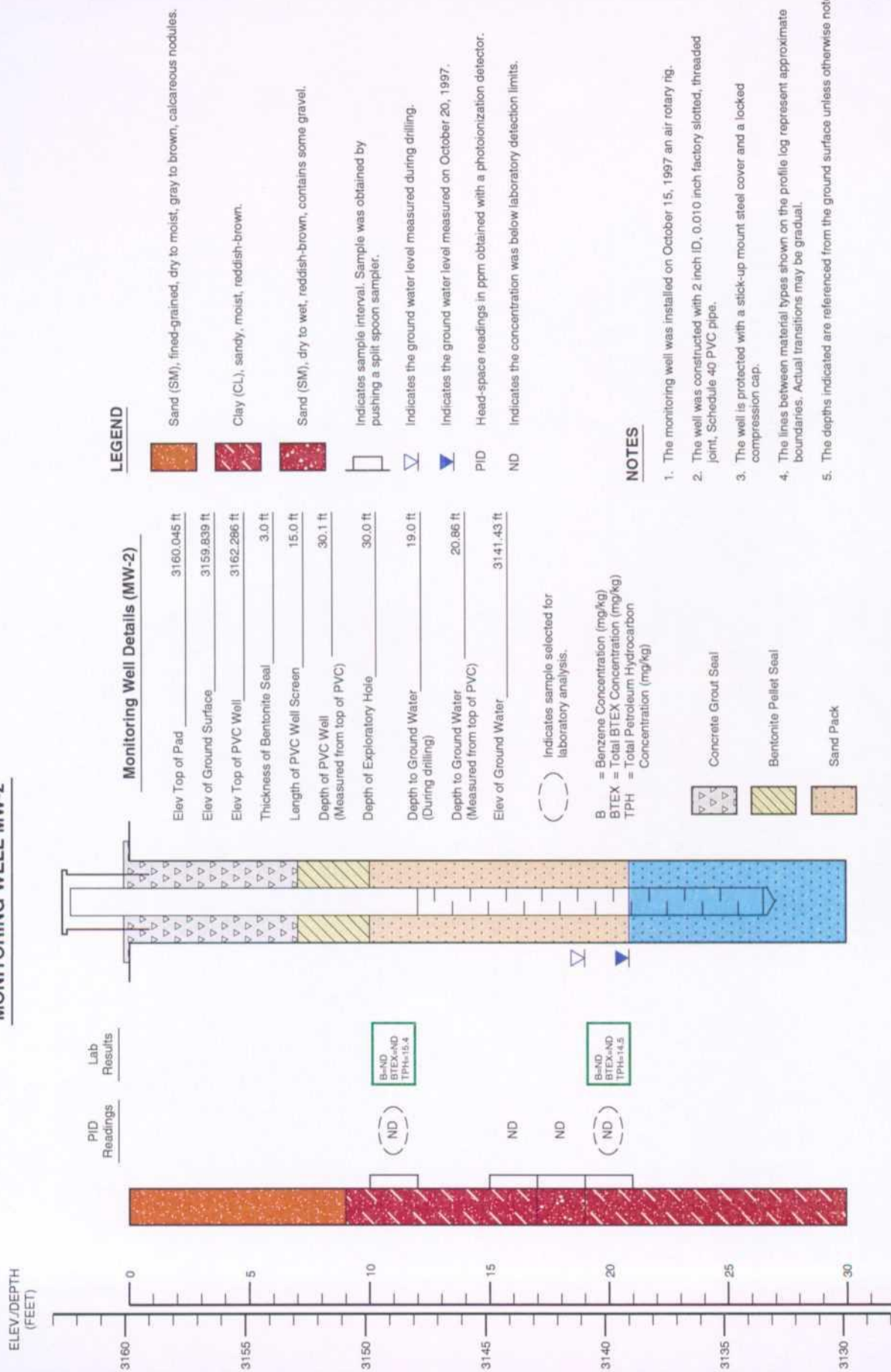


SB-2

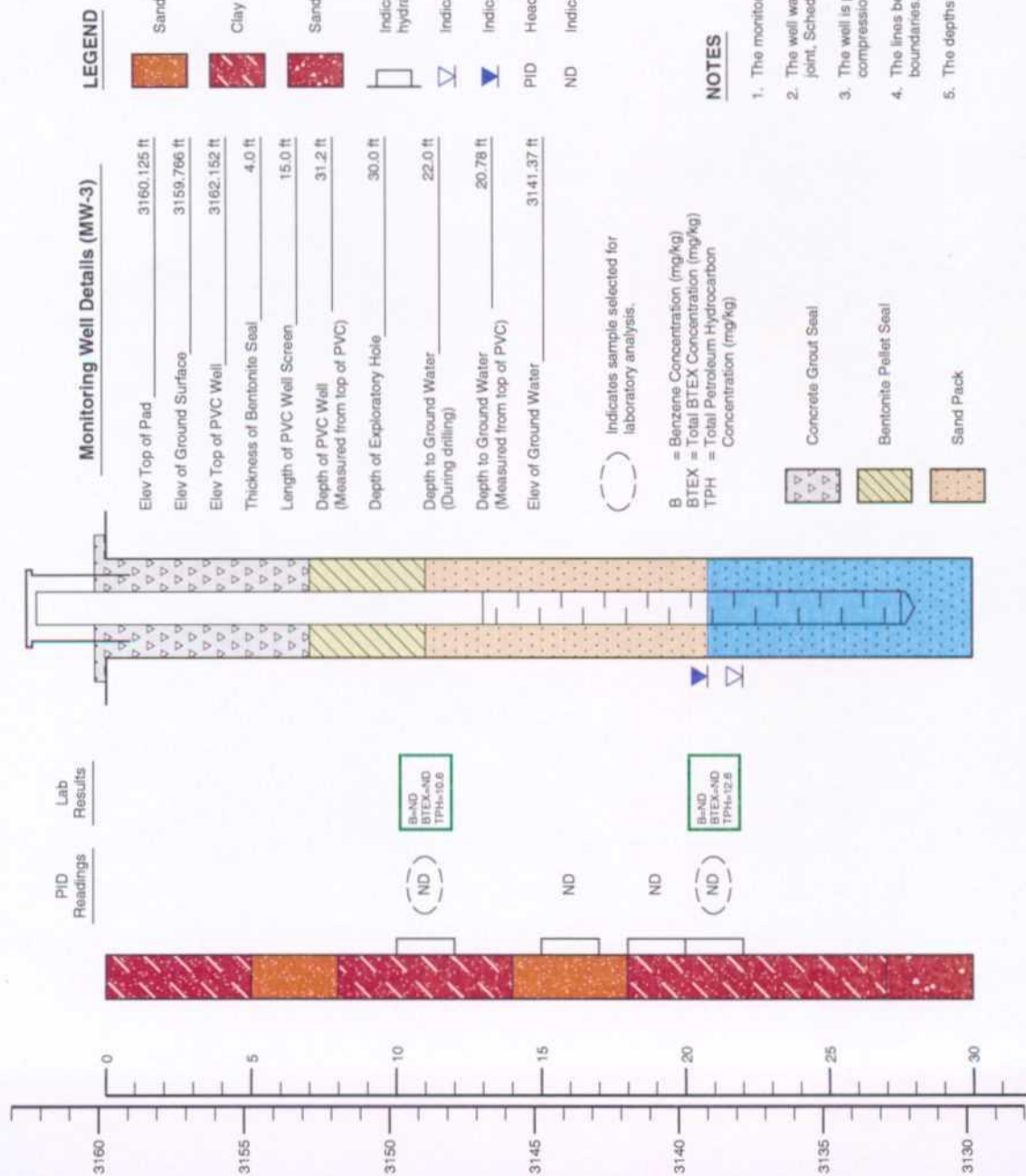




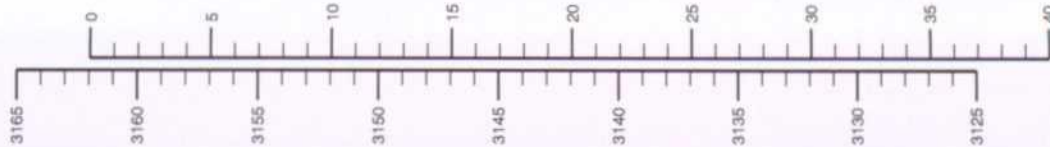
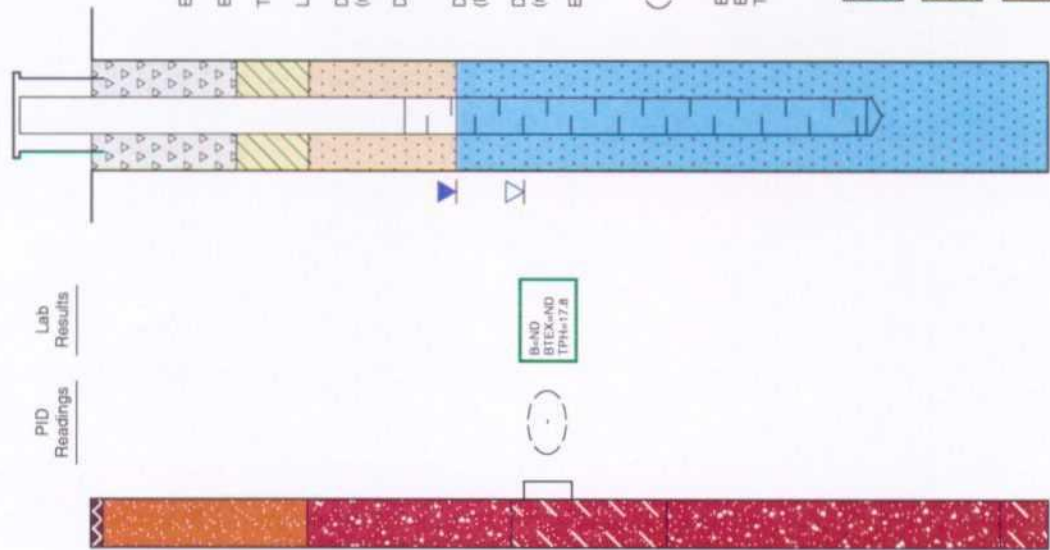
MONITORING WELL MW-2



MONITORING WELL MW-3



WATER WELL WW-1

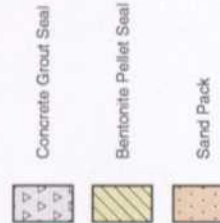
ELEV/DEPTH
(FEET)PID
ReadingsLab
Results

Water Well Details (WW-1)

Elev of Ground Surface	3161.965 ft
Elev Top of PVC Well	3164.988 ft
Thickness of Bentonite Seal	3.0 ft
Length of PVC Well Screen	20.0 ft
Depth of PVC Well (measured from top of PVC)	33.0 ft
Depth of Exploratory Hole	40.0 ft
Depth to Ground Water (During drilling)	18.5 ft
Depth to Ground Water (measured from top of PVC)	15.17 ft
Elev of Ground Water	3146.80 ft

○ Indicates sample selected for laboratory analysis.

B = Benzene Concentration (mg/kg)
 BTEX = Total BTEX Concentration (mg/kg)
 TPH = Total Petroleum Hydrocarbon Concentration (mg/kg)



LEGEND

- Topsoil, contains gravel (caliche), brown.
- Sand (SM), fined-grained, dry to moist, gray to brown, calcareous nodules.
- Clay (CL), sandy, moist, reddish-brown.
- Sand (SM), dry to wet, reddish-brown, contains some gravel.
- Indicates sample interval. Sample was obtained by hydraulically pushing a split spoon sampler.
- Indicates the ground water level measured during drilling.
- Indicates the ground water level measured on October 20, 1997.
- PID
- ND

NOTES

- The monitoring well was installed on October 16, 1997 using an air rotary rig.
- The well was constructed with 6 inch ID, 0.010 inch factory slotted, threaded joint, Schedule 40 PVC pipe.
- The well is protected with a stick-up mount steel cover and a locked compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface unless otherwise noted.

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LOG AND DETAILS OF WATER WELL WW-1

TNMPL

TNM-97-16

LEA COUNTY, NEW MEXICO

710034

APPENDIX A

CERTIFICATE OF ANALYSIS SUMMARY 1-72473

Project ID: 710034
Project Manager: Theresa Nix
Project Location:

K.E.I. Consultants, Inc.

Project Name: TNMPL

Date Received in Lab: Oct 17, 1997 09:25 by LY

Date Report Faxed: Oct 27, 1997

XENCO contact: Carlos Castro/Edward Yonemoto

Analysis Requested		Lab ID:	172473-001	172473-002	172473-003	172473-004	172473-005	172473-006	172473-007	172473-008	172473-009
		Field ID:	MW-3	MW-3	MW-2	MW-2	MW-1	MW-1	6" W.V.Vell	MW-1	SB-1
		Depth:	10-12'	20-22'	10-12'	19-21'	21-23'	10-12'	18-20'	17-19'	4-6'
Organic Content by ASTM D2974			Date Analyzed - Analytical Results %								
										Oct 23, 1997	
Organic Content										1.1	
TPH-DRO (Diesel) by EPA 8015 M			Date Analyzed - Analytical Results					ppm (mg/L - mg/Kg)			
			Oct 21, 1997	Oct 21, 1997	Oct 21, 1997	Oct 21, 1997	Oct 21, 1997	Oct 21, 1997	Oct 21, 1997	Oct 21, 1997	Oct 21, 1997
Total Petroleum Hydrocarbons			10.6	12.6	15.4	14.5	15.9	16.0	17.8		18.8
BTEX by EPA 8020			Date Analyzed - Analytical Results					ppm (mg/L - mg/Kg)			
			Oct 17, 1997	Oct 17, 1997	Oct 17, 1997	Oct 17, 1997	Oct 17, 1997	Oct 17, 1997	Oct 17, 1997	Oct 17, 1997	Oct 17, 1997
Benzene			< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Toluene			< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Ethylbenzene			< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
m,p-Xylenes			< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040	< 0.040
o-Xylene			< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Total BTEX			< 0.120	< 0.120	< 0.120	< 0.120	< 0.120	< 0.120	< 0.120	< 0.120	< 0.120

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of K.E.I. 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.


Edward R. Yonemoto, Ph.D.
QA/QC Manager

CERTIFICATE OF ANALYSIS SUMMARY 1-72473

Project ID: 710034
Project Manager: Theresa Nix
Project Location:

K.E.I. Consultants, Inc.

Project Name: TNMPL

Date Received in Lab : Oct 17, 1997 09:25 by LY

Date Report Faxed: Oct 27, 1997

XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested		Lab ID: Field ID: Depth:	172473-010 SB-1 14-16'	172473-011 SB-2 4-6'	172473-012 SB-2 14-16'				
TPH-DRO (Diesel) by EPA 8015 M			Date Analyzed - Analytical Results						ppm (mg/L - mg/Kg)
Total Petroleum Hydrocarbons			Oct 21, 1997 20.1	Oct 21, 1997 20.3	Oct 21, 1997 23.3				
BTEX by EPA 8020			Date Analyzed - Analytical Results						ppm (mg/L - mg/Kg)
Benzene			Oct 17, 1997 < 0.020	Oct 17, 1997 < 0.020	Oct 17, 1997 < 0.020				
Toluene			< 0.020	< 0.020	< 0.020				
Ethylbenzene			< 0.020	< 0.020	< 0.020				
m,p-Xylenes			< 0.040	< 0.040	< 0.040				
o-Xylene			< 0.020	< 0.020	< 0.020				
Total BTEX			< 0.120	< 0.120	< 0.120				

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Edward H. Yonemoto, Ph.D.
QA/QC Manager

Certificate Of Quality Control for Batch : 17A02C53

SW- 346 3015 M TPH- DRO (Diesel)

Date Validated: Oct 22, 1997 12:05

Date Analyzed: Oct 21, 1997 20:23

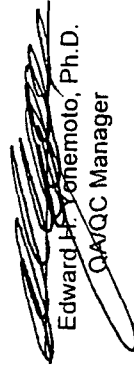
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: LC

Matrix: Solid

MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY												
Q.C. Sample ID 172473- 006	Parameter	[A]	[B]	[C]	[D]	[E]	Matrix Limit	[F]	[G]	[H]	[I]	[J]
		Sample Result	Matrix Spike Result	Matrix Spike Duplicate Result	Matrix Spike Amount	Method Detection Limit	Relative Difference	QC	QC		Matrix Spike Recovery Range	Qualifier
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	%	Matrix Spike Recovery	M.S.D. Recovery	%	%
Total Petroleum Hydrocarbons		16.01	208	214	200	10.00	30.0	2.8	96.0	99.0	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


 Edward H. Yonemoto, Ph.D.
 QA/QC Manager

SW- 846 3015 M TPH- DRO (Diesel)

Date Validated: Oct 22, 1997 12:05

Analyst: LC

Date Analyzed: Oct 21, 1997 17:01

Matrix: Solid

QA/QC Manager: Edward H. Yonemoto, Ph.D.

BLANK SPIKE ANALYSIS

Parameter	[A]	[B]	[C]	[D]	[E]	[F]	[G]
	Blank	Blank Spike	Blank	Method	QC	LIMITS	Qualifier
	Result	Result	Spike	Detection	Blank Spike	Recovery	
	mg/kg	mg/kg	Amount	Limit	Recovery	Range	
			mg/kg	mg/kg	%	%	
Total Petroleum Hydrocarbons	< 10.00	178	200	10.00	89.0	65-135	

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

N.C. = Not calculated, data below detection limit

N.D. = Below detection limit

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


Edward H. Yonemoto, Ph.D.
QA/QC Manager

ASTM D2974 Organic Content

Date Validated: Oct 23, 1997 17:30

Analyst: IF

Date Analyzed: Oct 23, 1997 14:05

Matrix: Solid

QA/QC Manager: Edward H. Yonemoto, Ph.D.

MATRIX DUPLICATE ANALYSIS						
Q.C. Sample ID 172473- 008	[A]	[B]	[C]	[D]	[E]	[F]
	Sample	Duplicate	Method	QC	LIMITS	Qualifier
	Result	Result	Detection	Relative	Relative	
Parameter	%	%	Limit	Difference	Difference	
			%	%	%	
Organic Content	1.10	1.10	0.1	0.0	20.0	

Relative Difference [D] = $200 \times (B-A)/(B+A)$

N.C. = Not calculated, data below detection limit

N.D. = Below detection limit

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


Edward H. Yonemoto, Ph.D.
QA/QC Manager



Certificate Of Quality Control for Batch : 17A25D33

SW- 346 5030/3020 BTX

Date Validated: Oct 17, 1997 17:00

Date Analyzed: Oct 17, 1997 11:07

QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: HL

Matrix: Solid

MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY										
Q.C. Sample ID 172473- 001	Parameter	[A] Sample Result ppm	[B] Matrix Spike Result ppm	[C] Matrix Spike Duplicate Result ppm	[D] Matrix Spike Amount ppm	[E] Method Detection Limit ppm	Matrix Limit Relative Difference %	[F] QC		[J] Qualifier
								Spike Relative Difference %	M.S.D. Recovery %	
	Benzene	< 0.020	1.880	1.890	2.000	0.020	20.0	0.5	94.0	65-135
	Toluene	< 0.020	1.890	1.894	2.000	0.020	20.0	0.2	94.5	65-135
	Ethylbenzene	< 0.020	1.878	1.902	2.000	0.020	20.0	1.3	93.9	65-135
	m,p-Xylenes	< 0.040	3.960	3.960	4.000	0.040	20.0	0.0	99.0	65-135
	o-Xylene	< 0.020	1.982	1.984	2.000	0.020	20.0	0.1	99.1	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

Edward H. Yonemoto, Ph.D.
QA/QC Manager

SW- 846 5030/8020 BTEX

Date Validated: Oct 17, 1997 17:00

Analyst: HL

Date Analyzed: Oct 17, 1997 10:29

Matrix: Solid

QA/QC Manager: Edward H. Yonemoto, Ph.D.

BLANK SPIKE ANALYSIS

Parameter	[A]	[B]	[C]	[D]	[E]	[F]	[G]
	Blank Result	Blank Spike Result	Blank Spike Amount	Method Detection Limit	QC	LIMITS	Qualifier
	ppm	ppm	ppm	ppm	Blank Spike Recovery %	Recovery Range %	
Benzene	< 0.0010	0.1050	0.1000	0.0010	105.0	65-135	
Toluene	< 0.0010	0.1040	0.1000	0.0010	104.0	65-135	
Ethylbenzene	< 0.0010	0.1040	0.1000	0.0010	104.0	65-135	
m,p-Xylenes	< 0.0020	0.2130	0.2000	0.0020	106.5	65-135	
o-Xylene	< 0.0010	0.1070	0.1000	0.0010	107.0	65-135	

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

N.C. = Not calculated, data below detection limit

N.D. = Below detection limit

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


 Edward H. Yonemoto, Ph.D.
 QA/QC Manager

ANALYTICAL CHAIN OF CUSTODY REPORT CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project ID: 710034

Project Manager: Theresa Nix

Project Location:

Project Name: TNMPL

XENCO COC#: 1-72473

Date Received In Lab: Oct 17, 1997 09:25 by LY

XENCO contact : Carlos Castro/Edward Yonemoto

Field ID		Date and Time						
		Lab. ID	Method Name	Method ID	Units	Turn Around	Sample Collected	Addition Requested
1	MW-3 (10-12')	172473-001	BTEX	SW-846	ppm	Standard	Oct 15, 1997 09:28	
2			TPH8015M-D	SW-846 8015 M	mg/kg	Standard	Oct 15, 1997 09:28	Oct 17, 1997 by HL
3	MW-3 (20-22')	172473-002	BTEX	SW-846	ppm	Standard	Oct 15, 1997 09:59	Oct 21, 1997 by CY
4			TPH8015M-D	SW-846 8015 M	mg/kg	Standard	Oct 15, 1997 09:59	Oct 17, 1997 by HL
5	MW-2 (10-12')	172473-003	BTEX	SW-846	ppm	Standard	Oct 15, 1997 12:28	Oct 21, 1997 by CY
6			TPH8015M-D	SW-846 8015 M	mg/kg	Standard	Oct 15, 1997 12:28	Oct 17, 1997 by HL
7	MW-2 (19-21')	172473-004	BTEX	SW-846	ppm	Standard	Oct 15, 1997 12:49	Oct 21, 1997 by CY
8			TPH8015M-D	SW-846 8015 M	mg/kg	Standard	Oct 15, 1997 12:49	Oct 17, 1997 by HL
9	MW-1 (21-23')	172473-005	BTEX	SW-846	ppm	Standard	Oct 16, 1997 09:09	Oct 21, 1997 by CY
10			TPH8015M-D	SW-846 8015 M	mg/kg	Standard	Oct 16, 1997 09:09	Oct 17, 1997 by HL
11	MW-1(10-12')	172473-006	BTEX	SW-846	ppm	Standard	Oct 16, 1997 08:12	Oct 21, 1997 by CY
12			TPH8015M-D	SW-846 8015 M	mg/kg	Standard	Oct 16, 1997 08:12	Oct 17, 1997 by HL
13	6" Water Well (18-20')	172473-007	BTEX	SW-846	ppm	Standard	Oct 16, 1997 10:52	Oct 21, 1997 by CY
14			TPH8015M-D	SW-846 8015 M	mg/kg	Standard	Oct 16, 1997 10:52	Oct 17, 1997 by HL
15	MW-1 (17-19')	172473-008	Org. Content	ASTM D2974	%	Standard	Oct 16, 1997 08:56	Oct 21, 1997 by CY
16	SB-1	172473-009	BTEX	SW-846	ppm	Standard	Oct 15, 1997 15:03	Oct 23, 1997 by IF
17			TPH8015M-D	SW-846 8015 M	mg/kg	Standard	Oct 15, 1997 15:03	Oct 17, 1997 by HL
18		172473-010	TPH8015M-D	SW-846 8015 M	mg/kg	Standard	Oct 15, 1997 15:38	Oct 21, 1997 by CY
19			BTEX	SW-846	ppm	Standard	Oct 15, 1997 15:38	Oct 21, 1997 by CY
20	SB-2	172473-011	TPH8015M-D	SW-846 8015 M	mg/kg	Standard	Oct 15, 1997 16:11	Oct 17, 1997 by HL
21			BTEX	SW-846	ppm	Standard	Oct 15, 1997 16:11	Oct 21, 1997 by CY
22		172473-012	TPH8015M-D	SW-846 8015 M	mg/kg	Standard	Oct 15, 1997 16:40	Oct 17, 1997 by HL
23			BTEX	SW-846	ppm	Standard	Oct 15, 1997 16:40	Oct 21, 1997 by CY
							Oct 17, 1997 11:07 by HL	Oct 17, 1997 11:07 by HL
							Oct 21, 1997 17:59 by LC	Oct 21, 1997 17:59 by LC
							Oct 17, 1997 12:05 by HL	Oct 17, 1997 12:05 by HL
							Oct 21, 1997 18:28 by LC	Oct 21, 1997 18:28 by LC
							Oct 17, 1997 12:43 by HL	Oct 17, 1997 12:43 by HL
							Oct 21, 1997 18:57 by LC	Oct 21, 1997 18:57 by LC
							Oct 17, 1997 13:02 by HL	Oct 17, 1997 13:02 by HL
							Oct 21, 1997 19:28 by LC	Oct 21, 1997 19:28 by LC
							Oct 17, 1997 13:21 by HL	Oct 17, 1997 13:21 by HL
							Oct 21, 1997 19:54 by LC	Oct 21, 1997 19:54 by LC
							Oct 17, 1997 13:40 by HL	Oct 17, 1997 13:40 by HL
							Oct 21, 1997 20:23 by LC	Oct 21, 1997 20:23 by LC
							Oct 17, 1997 14:00 by HL	Oct 17, 1997 14:00 by HL
							Oct 21, 1997 21:50 by LC	Oct 21, 1997 21:50 by LC
							Oct 23, 1997 14:05 by IF	Oct 23, 1997 14:05 by IF
							Oct 17, 1997 14:19 by HL	Oct 17, 1997 14:19 by HL
							Oct 21, 1997 22:19 by LC	Oct 21, 1997 22:19 by LC
							Oct 21, 1997 22:48 by LC	Oct 21, 1997 22:48 by LC
							Oct 17, 1997 14:38 by HL	Oct 17, 1997 14:38 by HL
							Oct 21, 1997 23:16 by LC	Oct 21, 1997 23:16 by LC
							Oct 17, 1997 14:57 by HL	Oct 17, 1997 14:57 by HL
							Oct 21, 1997 23:45 by LC	Oct 21, 1997 23:45 by LC
							Oct 17, 1997 15:35 by HL	Oct 17, 1997 15:35 by HL



11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Page / of ~~2~~

Lab. Batch # 172473-SA

Contractor <u>K.C.C. Consultants</u>		Phone (210) <u>1685-3767</u>		No. coolers this shipment: Carrier: <u>UPS</u> Airbill No.		Contractor COC # Quote #: P.O. No: <u>8146</u>								
Address <u>5309 Wurzbach Suite 100 San Antonio, TX 78238</u>		Project Director <u>Mike Hawthorn</u>		Project Manager <u>Theressa Ditt</u>		Project No. <u>710034</u>								
Project Name <u>TNMP</u>		Project Location <u>Stanley</u>		Project No. <u>710034</u>		Project No. <u>710034</u>								
Sampler Signature <u>Stanley</u>		Project No. <u>710034</u>		Project No. <u>710034</u>		Project No. <u>710034</u>								
SAMPLE CHARACTERIZATION														
Field ID	Date	Time	DEPTH	SOIL	WATER	COMPA	GRA	Container Size Type P.G.	Preservative	Unl Disa Ker Unknown	Waste Oil	PT No:	Tank No:	Sample Description
MW-3	10/15/97	0926	10-12 FT	/	/	/	/	/	/	/	/	/	/	/
MW-3	01/15/97	0959	20-22 FT	/	/	/	/	/	/	/	/	/	/	/
MW-2	10/15/97	1228	10-12 FT	/	/	/	/	/	/	/	/	/	/	/
MW-2	10/15/97	1249	19-21 FT	/	/	/	/	/	/	/	/	/	/	/
MW-1	10/16/97	0909	21-23 FT	/	/	/	/	/	/	/	/	/	/	/
MW-1	10/16/97	0812	10-12 FT	/	/	/	/	/	/	/	/	/	/	/
6" water well	10/16/97	1052	13-20 FT	/	/	/	/	/	/	/	/	/	/	/
MW-1	10/16/97	0856	17-19 FT	/	/	/	/	/	/	/	/	/	/	/
Total														
No. of CONTAINERS														
Remarks														
Sample w/Highs/TPH (8015) Please see SVOC's VOC's SPLTPH														

[illegible]

Precision Analytical Services

Project ID: 710034
Project Manager: Theresa Nix
Project Location: TNMPL JAL

K.E.I. Consultants, Inc.

Project Name: TNMPL

Date Received in Lab : Oct 21, 1997 10:00 by AS

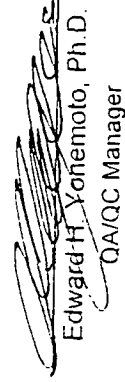
Date Report Faxed: Oct 27, 1997

XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested		Lab ID: Field ID:	Date Analyzed - Analytical Results								ppm (mg/L - mg/Kg)	
			172543-001 MW-1	172543-002 MW-1	172543-003 MW-2	172543-004 MW-2	172543-005 MW-3	172543-006 MW-3	172543-007 6" WW	172543-008 6" WW	172543-009 S Windmill	
BTEX by EPA 8020			Oct 23, 1997		Oct 23, 1997		Oct 23, 1997		Oct 23, 1997		Oct 23, 1997	
Benzene			0.003		< 0.001		< 0.001		< 0.001		< 0.001	
Toluene			0.003		0.002		< 0.001		< 0.001		0.002	
Ethylbenzene			0.003		0.001		< 0.001		< 0.001		< 0.001	
m,p-Xylenes			0.007		0.005		< 0.002		< 0.002		< 0.002	
o-Xylene			0.003		0.002		< 0.001		< 0.001		< 0.001	
Total BTEX			0.019		0.010		< 0.006		< 0.006		0.002	

Semivolatiles (SVOCs TCL) by EPA 8270	Date Analyzed - Analytical Results						ppm (mg/L - mg/Kg)	
	Oct 22, 1997	Oct 22, 1997	Oct 22, 1997	Oct 22, 1997	Oct 22, 1997	Oct 22, 1997	Oct 22, 1997	Oct 22, 1997
Acenaphthene	< 0.010		< 0.010		< 0.010		< 0.010	< 0.010
Acenaphthylene	< 0.010		< 0.010		< 0.010		< 0.010	< 0.010
Anthracene	< 0.010		< 0.010		< 0.010		< 0.010	< 0.010
Benzo(a)anthracene	< 0.010		< 0.010		< 0.010		< 0.010	< 0.010
Benzo(a)pyrene	< 0.010		< 0.010		< 0.010		< 0.010	< 0.010
Benzo(b)fluoranthene	< 0.010		< 0.010		< 0.010		< 0.010	< 0.010
Benzo(g,h,i)perylene	< 0.010		< 0.010		< 0.010		< 0.010	< 0.010
Benzo(k)fluoranthene	< 0.010		< 0.010		< 0.010		< 0.010	< 0.010

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Edward H. Yonemoto, Ph.D.
QA/QC Manager

CERTIFICATE OF ANALYSIS SUMMARY 1-72543

K.E.I. Consultants, Inc.

Project ID: 710034
Project Manager: Theresa Nix
Project Location: TNMPL JAL

Date Received in Lab : Oct 21, 1997 10:00 by AS
Date Report Faxed: Oct 27, 1997
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	Lab ID: Field ID:	Date Analyzed - Analytical Results						ppm (mg/L - mg/Kg)		
		172543-001 MW-1	172543-002 MW-1	172543-003 MW-2	172543-004 MW-2	172543-005 MW-3	172543-006 MW-3	172543-007 6" WW	172543-008 6" WW	172543-009 S Windmill
Butyl benzyl phthalate		< 0.010	< 0.010		< 0.010		< 0.010		< 0.010	
Carbazole		< 0.010	< 0.010		< 0.010		< 0.010		< 0.010	
4 Chloroaniline		< 0.010	< 0.010		< 0.010		< 0.010		< 0.010	
bis [2-Chloroethoxy] methane		< 0.010	< 0.010		< 0.010		< 0.010		< 0.010	
bis [2-Chloroethyl] ether		< 0.010	< 0.010		< 0.010		< 0.010		< 0.010	
bis [2-Chloroisopropyl] ether		< 0.010	< 0.010		< 0.010		< 0.010		< 0.010	
2-Chloronaphthalene		< 0.010	< 0.010		< 0.010		< 0.010		< 0.010	
2-Chlorophenol		< 0.010	< 0.010		< 0.010		< 0.010		< 0.010	
4-Chlorophenyl-phenyl ether		< 0.010	< 0.010		< 0.010		< 0.010		< 0.010	
Chrysene		< 0.010	< 0.010		< 0.010		< 0.010		< 0.010	
Dibenzofuran		< 0.010	< 0.010		< 0.010		< 0.010		< 0.010	
Dibenzo(a,h)anthracene		< 0.010	< 0.010		< 0.010		< 0.010		< 0.010	
1,2-Dichlorobenzene		< 0.010	< 0.010		< 0.010		< 0.010		< 0.010	
1,3-Dichlorobenzene		< 0.010	< 0.010		< 0.010		< 0.010		< 0.010	
1,4-Dichlorobenzene		< 0.010	< 0.010		< 0.010		< 0.010		< 0.010	
3,3'-Dichlorobenzidine		< 0.010	< 0.010		< 0.010		< 0.010		< 0.010	
2,4-Dichlorophenol		< 0.010	< 0.010		< 0.010		< 0.010		< 0.010	

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Edward H. Yonemoto, Ph.D.
QA/QC Manager

CERTIFICATE OF ANALYSIS SUMMARY 1-72543

K.E.I. Consultants, Inc.

Project ID: 710034
Project Manager: Theresa Nix
Project Location: TNMPL JAL

Date Received in Lab : Oct 21, 1997 10:00 by AS
Date Report Faxed: Oct 27, 1997

XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested		Lab ID: Field ID:	172543-001 MW-1	172543-002 MW-1	172543-003 MW-2	172543-004 MW-2	172543-005 MW-3	172543-006 MW-3	172543-007 6" VWV	172543-008 6" VWV	172543-009 S Windmill
			Date Analyzed - Analytical Results								
			ppm (mg/L - mg/Kg)								
			Oct 22, 1997	Oct 22, 1997	Oct 22, 1997	Oct 22, 1997	Oct 22, 1997	Oct 22, 1997	Oct 22, 1997	Oct 22, 1997	
Diethyl phthalate				< 0.010		** 0.388		< 0.010		< 0.010	
2,4-Dimethylphenol				< 0.010		< 0.010		< 0.010		< 0.010	
Dimethyl phthalate				< 0.010		< 0.010		< 0.010		< 0.010	
4,6-Dinitro-2-methylphenol				< 0.025		< 0.025		< 0.025		< 0.025	
2,4-Dinitrophenol				< 0.025		< 0.025		< 0.025		< 0.025	
2,4-Dinitrotoluene				< 0.010		< 0.010		< 0.010		< 0.010	
2,6-Dinitrotoluene				< 0.010		< 0.010		< 0.010		< 0.010	
Di-n-octyl phthalate				< 0.010		< 0.010		< 0.010		< 0.010	
bis [2-Ethylhexyl] phthalate				< 0.010		< 0.010		< 0.010		< 0.010	
Fluoranthene				< 0.010		< 0.010		< 0.010		< 0.010	
Fluorene				< 0.010		< 0.010		< 0.010		< 0.010	
Hexachlorobenzene				< 0.010		< 0.010		< 0.010		< 0.010	
Hexachlorobutadiene				< 0.010		< 0.010		< 0.010		< 0.010	
Hexachlorocyclopentadiene				< 0.010		< 0.010		< 0.010		< 0.010	
Hexachloroethane				< 0.010		< 0.010		< 0.010		< 0.010	
Indeno(1,2,3-cd)pyrene				< 0.010		< 0.010		< 0.010		< 0.010	
Isophorone				< 0.010		< 0.010		< 0.010		< 0.010	

This report summary, and the entire report it represents, has been made for the exclusive and confidential use of K.E.I. 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.


Edward H. Yonemoto, Ph.D.
QA/QC Manager

CERTIFICATE OF ANALYSIS SUMMARY 1-72543

K.E.I. Consultants, Inc.

Project ID: 710034
Project Manager: Theresa Nix
Project Location: TNMPL JAL

Date Received in Lab : Oct 21, 1997 10:00 by AS
Date Report Faxed: Oct 27, 1997

XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested		Lab ID: Field ID:	172543-001 MW-1	172543-002 MW-1	172543-003 MW-2	172543-004 MW-2	172543-005 MW-3	172543-006 MW-3	172543-007 6" WW	172543-008 6" WW	172543-009 S Windmill
Date Analyzed - Analytical Results											
ppm (mg/L - mg/Kg)											
2-Methylnaphthalene			Oct 22, 1997		Oct 22, 1997		Oct 22, 1997		Oct 22, 1997		
2-Methylphenol			< 0.010		< 0.010		< 0.010		< 0.010		
4-Methylphenol			< 0.010		< 0.010		< 0.010		< 0.010		
Naphthalene			< 0.010		< 0.010		< 0.010		< 0.010		
2-Nitroaniline			< 0.025		< 0.025		< 0.025		< 0.025		
3-Nitroaniline			< 0.025		< 0.025		< 0.025		< 0.025		
4-Nitroaniline			< 0.025		< 0.025		< 0.025		< 0.025		
Nitrobenzene			< 0.010		< 0.010		< 0.010		< 0.010		
2-Nitrophenol			< 0.010		< 0.010		< 0.010		< 0.010		
4-Nitrophenol			< 0.010		< 0.010		< 0.010		< 0.010		
N-Nitroso-di-n-propylamine			< 0.010		< 0.010		< 0.010		< 0.010		
N-Nitrosodiphenylamine			< 0.010		< 0.010		< 0.010		< 0.010		
Pentachlorophenol			< 0.025		< 0.025		< 0.025		< 0.025		
Phenanthrene			< 0.010		< 0.010		< 0.010		< 0.010		
Phenol			< 0.010		< 0.010		< 0.010		< 0.010		
Pyrene			< 0.010		< 0.010		< 0.010		< 0.010		
Pyridine			< 0.010		< 0.010		< 0.010		< 0.010		

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Edward H. Yonemoto, Ph.D.
QA/QC Manager

CERTIFICATE OF ANALYSIS SUMMARY 1-72543

Project ID: 710034
 Project Manager: Theresa Nix
 Project Location: TNMPL JAL

K.E.I. Consultants, Inc.

Project Name: *TNMPL*

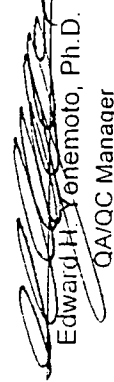
Date Received in Lab : Oct 21, 1997 10:00 by AS

Date Report Faxed: Oct 27, 1997

XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested		Lab ID: Field ID:	172543-001 MW-1	172543-002 MW-1	172543-003 MW-2	172543-004 MW-2	172543-005 MW-3	172543-006 MW-3	172543-007 6" WW	172543-008 6" WW	172543-009 S Windmill
Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)											
			Oct 22, 1997			Oct 22, 1997			Oct 22, 1997		
1,2,4-Trichlorobenzene			< 0.010			< 0.010		< 0.010		< 0.010	
2,4,5-Trichlorophenol			< 0.025			< 0.025		< 0.025		< 0.025	
2,4,6-Trichlorophenol			< 0.010			< 0.010		< 0.010		< 0.010	
4-Bromophenyl-phenylether			< 0.010			< 0.010		< 0.010		< 0.010	
4-Chloro-3-Methylphenol			< 0.010			< 0.010		< 0.010		< 0.010	
Di-n-butyl phthalate			< 0.010			< 0.010		< 0.010		< 0.010	
** Result beyond calibration limits											

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 Edward H. Yonemoto, Ph.D.
 QA/QC Manager

CERTIFICATE OF ANALYSIS SUMMARY 1-72543

Project ID: 710034

Project Manager: Theresa Nix

Project Location: TNMPL JAL

K.E.I. Consultants, Inc.

Project Name: TNMPL

Date Received in Lab : Oct 21, 1997 10:00 by AS

Date Report Faxed: Oct 27, 1997

XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	Lab ID: Field ID: Depth:	Date Analyzed - Analytical Results			ppm (mg/L - mg/Kg)
		172543-010 S Windmill	172543-011 N Windmill	172543-012 N Windmill	
TPH-DRO (Diesel) by EPA 8015 M		Oct 22, 1997 < 1.0	Oct 22, 1997 < 1.0		
Total Petroleum Hydrocarbons					
BTEX by EPA 8020		Date Analyzed - Analytical Results			ppm (mg/L - mg/Kg)
Benzene		Oct 23, 1997 < 0.001			
Toluene		0.002			
Ethylbenzene		0.001			
m,p-Xylenes		0.003			
o-Xylene		0.002			
Total BTEX		0.008			

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Edward Yonemoto, Ph.D.
QA/QC Manager

SW- 846 5030/8020 BTEX

Date Validated: Oct 24, 1997 16:00

Analyst: OR

Date Analyzed: Oct 22, 1997 18:26

Matrix: Liquid

QA/QC Manager: Edward H. Yonemoto, Ph.D.

BLANK SPIKE ANALYSIS

Parameter	[A]	[B]	[C]	[D]	[E]	[F]	[G]
	Blank	Blank Spike	Blank	Method	QC	LIMITS	Qualifier
	Result	Result	Spike	Detection	Blank Spike	Recovery	
	ppm	ppm	Amount	Limit	Recovery	Range	
			ppm	ppm	%	%	
Benzene	< 0.0010	0.0972	0.1000	0.0010	97.2	65-135	
Toluene	< 0.0010	0.0957	0.1000	0.0010	95.7	65-135	
Ethylbenzene	< 0.0010	0.1020	0.1000	0.0010	102.0	65-135	
m,p-Xylenes	< 0.0020	0.2070	0.2000	0.0020	103.5	65-135	
o-Xylene	< 0.0010	0.0962	0.1000	0.0010	96.2	65-135	

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

N.C. = Not calculated, data below detection limit

N.D. = Below detection limit

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


 Edward H. Yonemoto, Ph.D.
 QA/QC Manager



Certificate Of Quality Control for Batch : 17A29D12

SW- 846 5030/3020 BTEX

Date Validated: Oct 24, 1997 16:00

Date Analyzed: Oct 22, 1997 19:02

QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: OR

Matrix: Liquid

MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY

Q.C. Sample ID 172463- 001	Parameter	[A]	[B]	[C]	[D]	[E]	Matrix	[F]	[G]	[H]	[I]	[J]
		Sample Result ppm	Matrix Spike Result ppm	Matrix Spike Duplicate Result ppm	Matrix Spike Amount ppm	Method Detection Limit ppm	Limit Relative Difference %	QC	QC	QC	Matrix Spike Recovery Range %	Qualifier
								Spike Relative Difference %	Matrix Spike Recovery %	M.S.D. Recovery %		
Benzene	< 0.0010	0.1080	0.1120	0.1000	0.0010	25.0	3.6	108.0	112.0	65-135		
Toluene	< 0.0010	0.1070	0.1110	0.1000	0.0010	25.0	3.7	107.0	111.0	65-135		
Ethylbenzene	< 0.0010	0.1070	0.1120	0.1000	0.0010	25.0	4.6	107.0	112.0	65-135		
m,p-Xylenes	< 0.0020	0.2150	0.2240	0.2000	0.0020	25.0	4.1	107.5	112.0	65-135		
o-Xylene	< 0.0010	0.1040	0.1080	0.1000	0.0010	25.0	3.8	104.0	108.0	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

Edward H. Yonemoto, Ph.D.
QA/QC Manager

Certificate Of Quality Control for Batch : 17A34F28

SW846-8270 PAHs by GC-MS (610 List)

Date Validated: Oct 23, 1997 14:17

Date Analyzed: Oct 22, 1997 17:45

QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: LC

Matrix: Liquid

BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY

Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Duplicate Result mg/L	[D] Blank Spike Amount mg/L	[E] Method Detection Limit mg/L	Blank Limit Relative Difference %	[F]		[G]		[H]		[I] Blank Spike Recovery Range %	[J] Qualifier
							QC	Spike Relative Difference %	QC	Blank Spike Recovery %	QC	B.S.D. Recovery %		
Acenaphthene	< 0.0040	0.0830	0.0860	0.1000	0.0040	31.0		3.6		83.0		86.0	46-118	
4-Chloro-3-Methylphenol	< 0.0040	0.0702	0.0750	0.1000	0.0040	42.0		6.6		70.2		75.0	23-97	
2-Chlorophenol	< 0.0040	0.0652	0.0704	0.1000	0.0040	40.0		7.7		65.2		70.4	27-123	
1,4-Dichlorobenzene	< 0.0040	0.0720	0.0780	0.1000	0.0040	28.0		8.0		72.0		78.0	36-97	
2,4-Dinitrotoluene	< 0.0040	0.0814	0.0818	0.1000	0.0040	38.0		0.5		81.4		81.8	24-96	
N-Nitroso-di-n-propylamine	< 0.0080	0.0810	0.0810	0.1000	0.0080	38.0		0.0		81.0		81.0	41-116	
4-Nitrophenol	< 0.0080	0.0226	0.0206	0.1000	0.0080	50.5		9.3		22.6		20.6	10-80	
Pentachlorophenol	< 0.0020	0.0770	0.0810	0.1000	0.0020	50.0		5.1		77.0		81.0	9-103	
Phenol	< 0.0020	0.0258	0.0300	0.1000	0.0020	42.0		15.1		25.8		30.0	12-89	
Pyrene	< 0.0040	0.0898	0.0906	0.1000	0.0040	31.0		0.9		89.8		90.6	26-127	
1,2,4-Trichlorobenzene	< 0.0020	0.0778	0.0820	0.1000	0.0020	28.0		5.3		77.8		82.0	39-98	

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

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

B.S.D. = Blank Spike Duplicate

B.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


Edward H. Yonemoto, Ph.D.
QA/QC Manager

Certificate Of Quality Control for Batch : 17A02C51

SW- 346 3015 M TPH- DRO (Diesel)

Date Validated: Oct 22, 1997 12:10

Date Analyzed: Oct 22, 1997 02:53

QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: MM

Matrix: Liquid

BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY												
Parameter	[A]	[B]	[C]	[D]	[E]	Blank Limit	[F]	[G]	[H]	[I]	[J]	Qualifier
	Blank Result mg/L	Blank Spike Result mg/L	Blank Spike Duplicate Result mg/L	Blank Spike Amount mg/L	Method Detection Limit mg/L	Relative Difference %	QC	QC	QC	Blank Spike Recovery Range %		
							Spike Relative Difference %	Blank Spike Recovery %	B.S.D. Recovery %			
Total Petroleum Hydrocarbons	< 0.20	2.02	2.18	2.00	0.20	25.0	7.6	101.0	109.0	70-125		

Spike Relative Difference [F] = $200 \cdot (B-C)/(B+C)$
Blank Spike Recovery [G] = $100 \cdot (B-A)/[D]$
B S D = Blank Spike Duplicate
B 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


Edward H. Yonemoto, Ph.D.
QA/QC Manager



ANALYTICAL CHAIN OF CUSTODY REPORT CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project ID: 710034

Project Manager: Theresa Nix

Project Location: TNMPL JAL

Project Name: TNMPL

XENCO COC#: 1-72543

Date Received in Lab: Oct 21, 1997 10:00 by AS

XENCO contact : Carlos Castro/Edward Yonemoto

						Date and Time			
Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Sample Collected	Addition Requested	Extraction	Analysis
1 MW-1	172543-001	BTEX	SW-846	ppm	Standard	Oct 20, 1997 13:35		Oct 22, 1997 by OR	Oct 23, 1997 01:12 by OR
2	172543-002	SV-TCL	SW846-8270	mg/L	Standard	Oct 20, 1997 13:35		Oct 22, 1997 by RK	Oct 22, 1997 21:34 by LC
3 MW-2	172543-003	BTEX	SW-846	ppm	Standard	Oct 20, 1997 13:59		Oct 22, 1997 by OR	Oct 23, 1997 01:30 by OR
4	172543-004	SV-TCL	SW846-8270	mg/L	Standard	Oct 20, 1997 13:59		Oct 22, 1997 by RK	Oct 22, 1997 22:21 by LC
5 MW-3	172543-005	BTEX	SW-846	ppm	Standard	Oct 20, 1997 13:45		Oct 22, 1997 by OR	Oct 23, 1997 01:48 by OR
6	172543-006	SV-TCL	SW846-8270	mg/L	Standard	Oct 20, 1997 13:45		Oct 22, 1997 by RK	Oct 22, 1997 23:07 by LC
7 6" WW	172543-007	BTEX	SW-846	ppm	Standard	Oct 20, 1997 11:15		Oct 22, 1997 by OR	Oct 23, 1997 02:06 by OR
8	172543-008	SV-TCL	SW846-8270	mg/L	Standard	Oct 20, 1997 11:15		Oct 22, 1997 by RK	Oct 22, 1997 23:54 by LC
9 South Windmill	172543-009	BTEX	SW-846	ppm	Standard	Oct 20, 1997 11:20		Oct 22, 1997 by OR	Oct 23, 1997 02:24 by OR
10	172543-010	TPH8015M-D	SW-846 8015 M	mg/L	Standard	Oct 20, 1997 11:20		Oct 21, 1997 by CY	Oct 22, 1997 04:19 by MM
11 North Windmill	172543-011	BTEX	SW-846	ppm	Standard	Oct 20, 1997 14:17		Oct 22, 1997 by OR	Oct 23, 1997 02:42 by OR
12	172543-012	TPH8015M-D	SW-846 8015 M	mg/L	Standard	Oct 20, 1997 14:17		Oct 21, 1997 by CY	Oct 22, 1997 04:48 by MM



1381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692 Fax (713) 589-0695

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Page 1 of 2

Lab. Batch # 72543-H

Contractor K.E.I. Consultants		Phone (210) 680-3767		No coolers this shipment: Carrier: UPS		Contractor COC #	
Address 5309 Wertzbach, Suite 100 San Antonio, TX 78228		Project Director Mike Hawthorn		Airbill No.		Quote #: P.O. No: 8146	
Project Name TNMPL		Project Manager Theresa Nix		Total		Turn-around ASAP 24 hrs 48 hrs Standard	
Project Location TNMPL JAL		Project No. 710034		CONTAINERS		ID #	
Sample Signature Stanley Hoover		Preservative		Unl Disc Ker Unknown		Remarks	
SAMPLE CHARACTERIZATION		Is		Waste Oil		Please Hold	
Field ID		Date		Time		Remarks	
1 MW-1		10/20/97		1335		1	
2 MW-1		10/20/97		1335		2	
3 MW-2		10/20/97		1359		3	
4 MW-2		10/20/97		1359		4	
5 MW-3		10/20/97		1345		5	
6 MW-3		10/20/97		1345		6	
7 6" WW		10/20/97		1115		7	
8 6" WW		10/20/97		1115		8	
9						9	
10						10	

Relinquished by: Stanley Hoover	DATE: 10/20/97	TIME: 1630	Received by: Theresa Nix	DATE: 10/21/97	TIME: 10:00
Requested For Laboratory By: Stanley Hoover			Requested For Laboratory By: Theresa Nix		

Remarks: Please send analytical results TO Theresa Nix
Fax 1830-591-1476
Phone 1210-680-3767

Pink (Contractor), Yellow & White (Lab)

* Pre-scheduling is recommended

Precision Analytical Services



11381 Meadowglen Suite L Houston, Texas 77082
(713) 589-0692

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

Page 2 of 2

Lab. Batch # 172543-4

Contractor K.e.i. Consultants		Phone (210) 680-3767		No coolers this shipment Carrier: UPS		Contractor COC #									
Address 5309 Wurzbach, STE 100 San Antonio, TX 78238		Project Director Mike Hawthorn		Airbill No.		Quote #:									
Project Name THMPL		Project Manager Theresa NIX		Project No. 710034		P.O. No: 31416									
Project Location JVAL		Sampler Signature <i>[Signature]</i>		Project No. 710034											
SAMPLE CHARACTERIZATION															
Field ID	Date	Time	DEPTH	SOIL	WATER	COMPA	G R A B	Container Size Type P, G	Preservative	Unl Dies Ker Unknown	Waste Oil	PFT No:	Tank No:	Sample Description	
1 South Wind mill	10-20-97	1120												HCl	
2 South Wind mill	10-20-97	1120												HCl	
3 North Wind mill	10-20-97	1417												HCl	
4 North Wind mill	10-20-97	1417												HCl	
5															
6															
7															
8															
9															
10															
Relinquished by: <i>[Signature]</i>										DATE		TIME		Signature	
10-20-97										1630					
Received For Laboratory by: <i>[Signature]</i>										DATE		TIME		Signature	
10/21/97										10:00					

Remarks

Please Fax to Theresa NIX

Fax: 830-591-1476

Phone: 210-680-3767

Pink (Contractor), Yellow & White (Lab).

* Pre-scheduling is recommended

Precision Analytical Services

**ADDITIONAL SUBSURFACE INVESTIGATION REPORT
AND
MODIFIED STAGE 2 ABATEMENT PLAN**

**EOTT ENERGY CORP
TNM 97-16 BECKY DOOM SITE
LEA COUNTY, NEW MEXICO**

Prepared For:
EOTT Energy Corp
5805 East Highway 80
Midland, Texas 79701

Environmental Technology Group, Inc. Project No. EOT1021C

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

December 1999

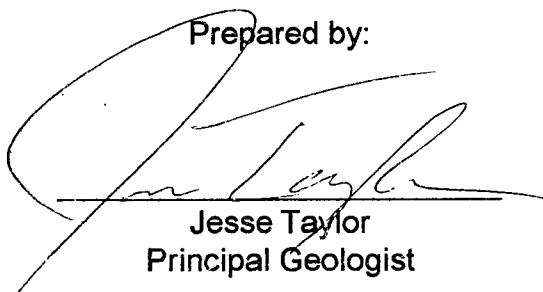
A Report Prepared for:

EOTT Energy Corp
5805 East Highway 80
Midland, Texas 79701

Additional Subsurface Investigation Report
And
Modified Stage 2 Abatement Plan

Environmental Technology Group, Inc. Project No. EOT1021C

Prepared by:

A handwritten signature in black ink, appearing to read "Jesse Taylor", is written over a horizontal line. Below the line, the name "Jesse Taylor" and title "Principal Geologist" are printed.

Jesse Taylor
Principal Geologist

Jerry Nickell
Managing Principal

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

November 1999

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FIGURES

- FIGURE 1: Site Location Map
- FIGURE 2: Site Map
- FIGURE 3: Geoprobe Locations and Soil Data Map
- FIGURE 4: Land-Farm Sample Locations and Soil Data Map
- FIGURE 5: Inferred Ground Water Contours 11/04/99
- FIGURE 6: Ground Water Chemistry Map 11/04/99

APPENDIX

- APPENDIX A: Laboratory Analytical Data
- APPENDIX B: Soil Boring Log

1.0 INTRODUCTION

The site is located approximately fourteen miles south of the town of Eunice, New Mexico in Section 12, Township 24 South, Range 37 East. A site location map is provided as Figure 1. On August 12, 1997, an estimated 232 barrels of crude oil was released at the site, of which an estimated 200 barrels were recovered. Approximately 32,000 cubic yards of impacted soil was excavated and land-farmed east of the release point as depicted on Figure 2, the Site Map.

In October 1997, two soil borings were advanced and three monitoring wells were installed at the site. In addition, a water supply well, designated WW-1, was installed to provide water for dust control of the land-farm. On September 15, 1998, 23 soil samples were collected from the excavation walls and floor. These activities and data are summarized in a subsurface investigation report dated May 14, 1998.

All of the ground water samples were non-detect for BTEX and no free product was observed in the excavation or monitoring wells. The soil data indicated that all of the soil samples were below regulatory limits for Benzene and BTEX. However, soil samples taken from the floor, the northern half of the west wall and the southeast corner were above regulatory limits for TPH. A Work Plan, dated October 29, 1998, recommended further excavation and the installation of a ground water monitoring well near the release point.

The report also recommended that the land-farm be divided into a grid and sampled such that there was approximately one soil sample per 2,000 cubic yards of soil. It proposed that soils with TPH concentrations below 100 mg/kg should be used to backfill the excavation. None of these recommendations were implemented at that time.

2.0 SUMMARY OF RECENT FIELD ACTIVITIES

In order to characterize the soil remaining around the excavation, 17 geoprobe points were advanced near the excavation walls in September 1999 as depicted on Figure 3. The geoprobe points were selected on the basis of the previous excavation soil data points that were in excess of regulatory limits. The soil data from these points is posted on Figure 3 and provided as Table 1. The laboratory reports are provided as Appendix A.

On September 27, 1999, twenty-four soil samples were collected from the land-farm as depicted on Figure 4. The samples were collected from approximately two feet below the surface, near the base of the land-farmed soil. The TPH data are posted on the map and provided as Table 2. The laboratory report is included in Appendix A.

On October 29, 1999, a monitoring well, MW-4, was installed as near to the release point as possible. The well could not be installed any closer to the excavation due to the weakness of the excavation wall at that point. The well was drilled to a total depth of 28 feet bgs, as depicted on the soil boring log, included as Appendix B. The well was

completed as prescribed by OCD requirements and in accordance with protocols outlined in Section 7 of this report. All of the site monitoring wells were sampled in accordance with OCD requirements on November 4, 1999. The soil laboratory data for all of the site monitoring wells and soil borings are included in Table 3. Ground water data, collected during the year 1999, is included as Table 4. Figure 5 is a map of the inferred ground water gradient and the ground water data from the above sampling round are posted on Figure 6. Both soil and ground water laboratory reports are included in Appendix A.

3.0 RESULTS

Data from the monitoring well installation and geoprobe points indicate that the site soils consist of tan to brown sand, which is generally fine grained and well sorted. The geoprobe and monitoring well soil data indicate that the presence of impacted soil around the excavation is limited to the west wall near the release point. The land-farm data indicate that the majority of the land-farmed soil is impacted to above regulatory limits. No consolidated sandstone or limestone was detected in the boring or the geoprobe points.

Ground water is present at approximately 20 to 23 feet bgs and the ground water gradient is to the south. No ground water samples contained BTEX at or above detectable levels.

4.0 ABATEMENT OPTIONS

4.1 Soil Remediation

Abatement of impacted soil at the site is technically feasible using the following technologies:

- Excavation and Disposal
- Soil Vapor Extraction
- Bioremediation
- Bioremediation/Bioventing
- Chemical Oxidation

The excavation of impacted soil has already been accomplished at the site with the exception of a minor amount of impacted soil near the release point. It is not feasible to excavate this soil at the present time due to the weak nature of the excavation wall immediately adjacent to the impacted area. In addition, excavation in this area would compromise the structural integrity of the pipeline itself.

The vast majority of impacted soil at the site is located in the land -farm which has been thin-spread across a significant area as depicted on the maps. Removal costs associated with scraping, loading and transporting this soil is significantly higher than in-situ treatment options discussed below.

Soil Vapor Extraction (SVE) is a viable technology to remediate the small area of impacted

soil remaining in place. However, the technology would not be appropriate to the land-farmed soil due to the shallow depth of the impacted soil. The radius of influence for any SVE well in this area would be extremely limited by the tendency of the entrained air to short circuit to the surface near the well. Given the limited extent of impacted soil in place, the installation and maintenance costs of a SVE system is not warranted.

Bioremediation of the COCs at this site is a technically feasible option. ETGI has extensive experience with this technology and has frequently applied hydrocarbon consuming bacteria to the subsurface using the Deep Remediation Injection System (DRIS) system (see below). However, It is estimated that this technology would require a remediation period of approximately one year. Total costs, including materials cost, inoculant cost, remediation progress monitoring and environmental supervision would be significantly higher than the recommended technology below.

By adding a biovent system to the site, aerobic bio-degradation could be accelerated at the site. This could result in a more rapid bioremediation schedule for the site. However, the cost associated with the installation of the system would represent a significant additional cost.

The chemical oxidation of hydrocarbons in the unsaturated zone, utilizing catalyzed Hydrogen Peroxide (H_2O_2) injected with the DRIS system is the recommended option. This technology is described in Section 4.0.

4.2 Ground Water Remediation

Site Data indicate that ground water is not impacted by hydrocarbons. For this reason, active ground water remediation is not recommended for the site. All of the ground water monitoring wells should be sampled on a quarterly basis and an annual report will be prepared. Ground water monitoring protocols are discussed below.

5.0 RECOMMENDED OPTION FOR SOIL REMEDIATION

In order to remediate the petroleum impacted soil, ETGI recommends chemical oxidation of the hydrocarbons in place utilizing the injection of hydrogen peroxide (H_2O_2), along with an iron sulfate catalyst. The soil conditions and depth of impacted soil should allow the use of the DRIS System without the use of pilot holes advanced by a geoprobe unit. In addition, the land-farmed soil will be turned over periodically to facilitate natural volatilization, UV degradation and bio-degradation. The estimated cost for soil remediation at the site using this approach is approximately \$80,000.00. The estimated period of active soil remediation activities should be approximately six months.

5.1 Injectate Volume and Composition

An estimate of the mass of crude oil present in the release area was made in order to estimate the required amount of Hydrogen Peroxide required to remediate the soil to below regulatory standards. These standards are 10 mg/Kg Benzene, 50 mg/Kg BTEX and 100 mg/Kg TPH. Given typical crude compositions at other, similar release sites, it is

assumed that the 100 mg/Kg of TPH will be the limiting factor, therefore this will be considered the critical analyte.

In order to estimate the volume of hydrocarbons present in the release area, the impacted soil was divided into two categories as described below:

- Impacted Soil in Place - Average concentration estimated to be 750 ppm
- Impacted Soil in the Land-Farm - Average concentration estimated to be 1,000 ppm

The estimated volume of impacted soil in place was calculated by assuming a 40 foot by 40 foot square around geoprobe point GP-2 between the depths of two to ten feet bgs. The average concentration from samples collected in this interval at GP-2 was 750 ppm. Assuming that the weight of a cubic yard is 2,000 pounds, the calculated weight of hydrocarbons in this area was found to be approximately 711 pounds. It is anticipated that the primary process for degradation of this soil will be chemical oxidation with minimal bio-degradation or UV degradation.

The estimated mass of hydrocarbons in the land-farmed soil, using the same assumptions was found to be 64,000 pounds. It is estimated that, given the shallow depth and distribution of this soil, an estimated 50% of the hydrocarbon mass will be lost due to volatilization, bio-degradation and UV degradation. Therefore, the remaining contaminant mass requiring chemical oxidation is estimated to be 32,000 pounds.

Combining the contaminant mass figures for both areas results in an estimated total of 32,711 lbs of hydrocarbons requiring chemical oxidation at the release site. Several published papers and the past Experience of ETGI at other similar sites indicate that a ratio of 5 lbs of a 50% solution of H_2O_2 to 1 lb of contaminant can result in the desired degradation as long as it is properly dispersed and comes into contact with a majority of the contaminant. Using this ratio, it is estimated that approximately 163,000 lbs or 16,300 gallons of 50% Hydrogen Peroxide will be injected into the two zones. In addition, approximately 40 lbs (0.024% of the amount of Hydrogen Peroxide) of Iron Sulfate ($FeSO_4$), in a 10 % solution with deionized water will be injected into the impacted soil zone prior to the introduction of Hydrogen Peroxide.

It is also well documented that, for the optimal production of hydroxyl radicals, a soil pH of 3 to 4 is required. Prior to injection, several soil samples will be collected to determine if the natural soil pH is in this range. It is probable that the soil pH is somewhat higher than this optimal range and a pH buffering agent (dilute H_2SO_4) will be introduced with the Iron Sulfate.

The literature indicates that within two to three days after the reaction, the remaining H_2O_2 and H_2SO_4 will be below detectable limits. The process involves the conversion of ferrous iron to ferric iron and some portion of ferric iron will probably remain in the soil as a precipitate. Controlled bench scale studies indicate that approximately 20% of the total amount of iron introduced will be converted to ferric iron as a precipitate. Therefore, we may expect that approximately 1.8 lbs of iron precipitate will remain in the treated soil area.

This should not degrade permeability in the soil to any significant degree.

5.2 Injection Schedule and Progress Monitoring

The estimated total amount of injectate required to remediate the soil will not be applied during a single event. Approximately one-third of the total required will be injected during each of three events. Typically, the events are scheduled approximately one month apart to allow for a complete reaction and stabilization. During the period between events, representative soil samples will be collected to allow for the monitoring of progress at the site and the modification of injection locations or injectate composition as needed. In order to monitor the remedial progress between events, a minimum of five representative soil samples will be collected from the impacted zone at various depths. In addition, ground water samples will be collected from the monitoring wells in the treatment area between each application.

Subsequent to the last event, a total of ten representative soil samples will be collected from the impacted zone at various depths. If these soil samples indicate that benzene, BTEX and/or TPH concentrations remain at levels significantly above the closure levels, subsequent injection events will be conducted.

5.3 Injectate Dispersion Method

The DRIS injection lance utilizes water, under pressures up to 5,000 lbs, to advance the lance into the subsurface. Once the desired depth is reached, valving on the head of the lance and at the DRIS trailer allow the water to be shut off. Subsequently the injectate is introduced to the subsurface under similar pressures. The DRIS unit also utilizes the introduction of pressurized air, in a band of small orifices (jets), located above the injectate jets. The air limits the volume of injectate allowed to escape out the pilot hole and facilitates the lateral movement of the injectate into the subsurface.

By injecting low volumes of liquid inoculates at high pressure, micro-fractures are created in the subsurface. Once the micro-fractures are opened, the inoculates are effectively dispersed into the soil. The DRIS system provides the intimate contact between the inoculate and the contaminant necessary to achieve contaminant reduction or degradation.

Past experience with the DRIS injection lances in similar type soils, indicates that the maximum depth of advancement will be approximately 30 feet bgs. Experience at the site with the model 4200 Geoprobe indicates that the maximum depth of advancement will be approximately 40 feet bgs. Therefore, in order to reach the deeper contaminant zone, a geoprobe rig will be utilized to advance pilot holes for the lance, in the area between MW-6 and MW-3.

The geoprobe rig will be utilized to advance pilot holes in the intermediate area where the lance alone can not penetrate to the base of the impacted soil zone. The lances will be employed, without the use of pilot holes where they are capable of reaching to the base of the impacted zone. Soil samples collected by the geoprobe, during the advancement of the pilot holes, will be used to confirm the depth to the base of the impacted zone where this horizon is not well defined.

5.4 Injection Spacing

At the beginning of the first injection event, an area of the site will be selected to conduct a pilot test to determine the required spacing. Initially, a grid, on ten foot spacing, will be laid out and the lance will be advanced at each point. During injection, the movement of injectate from adjacent holes will confirm that the holes are within the radius of influence. Typically, the radius of influence is between five to fifteen feet in this type of soil. Subsequent to this estimate of the radius of influence, a grid will be laid out across the impacted portion of the site.

6.0 MONITORING PROGRAM

During and subsequent to the recommended remedial activities, the ground water elevations in all site monitoring wells will be gauged and monitored for the presence of PSH on a monthly basis. All of the site monitoring wells will be sampled quarterly and the samples will be submitted for the analysis of BTEX (EPA Method 8020, 5030) and TPH (EPA Method 8015, modified for DRO and GRO). An annual report will be provided with a summary of all field activities and data results. The following developments at the site will warrant timely notification interim to the annual report:

- The detection of COCs in currently non-impacted monitoring wells for two consecutive monitoring periods;
- The detection of PSH in any well in which PSH has not been present previously;
- The recurrence of PSH in any well in which PSH was removed during remedial activities.

The monitoring plan will continue until such time that site closure is granted by the appropriate regulatory agency. Significant trends in COC concentrations or other significant developments at the site may have a bearing on the timing of a closure request.

7.0 QA/QC PROCEDURES

7.1 Soil Sampling

Samples of subsurface soils will be obtained utilizing either a split spoon sampler (air rotary drilling rig) or a two inch, continuous sampling tube with a clean polybuterate liner (geoprobe). Representative soil samples will be divided into two separate portions using clean, disposable gloves and clean sampling tools. One portion of the soil sample will be placed in a disposable sample bag. The bag will be labeled and sealed for head-space analysis using a photo-ionization detector (PID) calibrated to a 100 ppm isobutylene standard. Each sample will be allowed to volatilize for approximately thirty minutes at

ambient temperature prior to conducting the analysis.

The other portion of the soil sample will be placed in a sterile glass container equipped with a Teflon-lined lid furnished by the analytical laboratory. The container will be filled to capacity to limit the amount of head-space present. Each container will be labeled and placed on ice in an insulated cooler. Upon selection of samples for analysis, the cooler will be sealed for shipment to the laboratory. Proper chain-of-custody documentation will be maintained throughout the sampling process.

Soil samples will be delivered to Environmental Lab of Texas, Inc. in Midland, Texas for BTEX and TPH analyzes using the methods described below. Soil samples will be analyzed for BTEX and TPH-DRO within fourteen days following the collection date.

The soil samples will be analyzed as follows:

- BTEX concentrations in accordance with EPA Method 8020, 5030
- TPH concentrations in accordance with modified EPA Method 8015-GRO/DRO

7.2 Ground Water Sampling

Monitoring wells will be developed and purged with a clean PVC bailer. The bailer will be cleaned prior to each use with Liqui-Nox detergent and rinsed with distilled water. Monitoring wells with sufficient recharge will be purged by removing a minimum of three well volumes. Monitoring wells that do not recharge sufficiently will be purged until no additional ground water can be obtained.

After purging the wells, ground water samples will be collected with a disposable Teflon sampler and polyethylene line by personnel wearing clean, disposable gloves. Ground water sample containers will be filled in the order of decreasing volatilization sensitivity (i.e., BTEX containers will be filled first and PAH containers second).

Ground water samples collected for BTEX analysis will be placed in 40 ml glass VOA vials equipped with Teflon-lined caps. The containers will be provided by the analytical laboratory. The vials will be filled to a positive meniscus, sealed, and visually checked to ensure the absence of air bubbles.

Ground water samples collected for PAH analysis will be filled to capacity in sterile, 1 liter glass containers equipped with Teflon-lined caps. Ground water samples collected for metals analysis will be filled to capacity in sterile, 1 liter plastic containers equipped with Teflon-lined caps. The containers will be provided by the analytical laboratory.

The filled containers will be labeled and placed on ice in an insulated cooler. The cooler will be sealed for transportation to the analytical laboratory. Proper chain-of-custody documentation will be maintained throughout the sampling process.

The ground water samples will be analyzed as follows:

- BTEX concentrations in accordance with EPA Method 8020, 5030
- TPH concentrations in accordance with modified EPA Method 8015-GRO/DRO

7.3 Decontamination Of Equipment

Cleaning of drilling equipment will be the responsibility of the drilling company. In general, the cleaning procedures will consist of using high pressure steam to wash the drilling and sampling equipment prior to drilling and prior to starting each hole. Prior to use, the sampling equipment will be cleaned with Liqui-Nox detergent and rinsed with distilled water.

7.4 Laboratory Protocol

The laboratory will be responsible for proper QA/QC procedures. These procedures will either be transmitted with the laboratory reports or on file at the laboratory.

8.0 LIMITATIONS

Environmental Technology Group, Inc. has prepared this Additional Subsurface Investigation Report and Stage 2 Abatement Plan to the best of its ability. No other warranty, expressed or implied, is made or intended.

Environmental Technology Group, Inc. has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Environmental Technology Group, Inc. has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. Environmental Technology Group, Inc. has prepared this report in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Environmental Technology Group, Inc. 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 as described at the time of this report.

This report has been prepared for the benefit of EOTT Energy Corp. The information contained in this report including all exhibits and attachments, may not be used by any other party without the express consent of Environmental Technology Group, Inc. and/or EOTT Energy Corp.

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TABLES

TABLE 1

SOIL CHEMISTRY DATA FROM GEOPROBE POINTS
TNM 97-16
ETGI PROJECT# EOT1021C

Sample	Sample Date	Sample Depth (feet)	GRO C6-C10 (mg/kg)	DRO >C10-C25 (mg/kg)	TPH TOTAL (mg/kg)
GP-1	09/15/99	16'	ND	38	38
GP-1	09/15/99	20'	ND	ND	ND
GP-1	09/15/99	24'	ND	55	55
GP-1A	09/15/99	4'	ND	ND	ND
GP-1A	09/15/99	24'	ND	14	14
GP-1B	09/15/99	12'	ND	ND	ND
GP-1B	09/15/99	16'	ND	70	70
GP-1B	09/15/99	20'	ND	ND	ND
GP-1C	09/15/99	20'	ND	ND	ND
GP-2	09/15/99	4'	50	1220	1270
GP-2	09/15/99	8'	ND	232	232
GP-3	09/15/99	8'	ND	ND	ND
GP-6	09/15/99	8'	ND	10	10
GP-10	09/15/99	4'	ND	23	23
GP-10	09/15/99	6'	ND	177	177
GP-12	09/15/99	10'	ND	39	39

NOTE: Detection Limit = 10 mg/kg

TABLE 2

SOIL CHEMISTRY DATA FROM LAND-FARM SAMPLES
TNM 97-16
ETGI PROJECT# EOT1021C

Sample	SAMPLE DATE	GRO C6-C10 (mg/kg)	DRO >C10-C25 (mg/kg)	TPH TOTAL (mg/kg)
LF-1	09/27/99	96	3360	3456
LF-2	09/27/99	38	1576	1614
LF-3	09/27/99	152	5692	5844
LF-4	09/27/99	ND	604	604
LF-5	09/27/99	54	2835	2889
LF-6	09/27/99	ND	1021	1021
LF-7	09/27/99	10	634	644
LF-8	09/27/99	ND	498	498
LF-9	09/27/99	ND	497	497
LF-10	09/27/99	ND	520	520
LF-11	09/27/99	10	722	732
LF-12	09/27/99	13	969	982
LF-13	09/27/99	38	2177	2215
LF-14	09/27/99	ND	680	680
LF-15	09/27/99	ND	512	512
LF-16	09/27/99	ND	533	533
LF-17	09/27/99	ND	231	231
LF-18	09/27/99	ND	59	59
LF-19	09/27/99	ND	328	328
LF-20	09/27/99	ND	177	177
LF-21	09/27/99	ND	32	32
LF-22	09/27/99	ND	528	528
LF-23	09/27/99	ND	225	225
LF-24	09/27/99	ND	279	279

NOTE: Detection Limit = 10 mg/kg

TABLE 3

SOIL CHEMISTRY DATA FROM SOIL BORINGS / MONITORING WELLS
TNM 97-16
ETGI PROJECT # EOT1021C

SAMPLE LOCATION	SAMPLE DATE	DEPTH (FEET)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	XYLENES (mg/kg)	TOTAL BTEX (mg/kg)	GRO C6-C10 (mg/kg)	DRO >C10-C25 (mg/kg)	TPH (mg/kg)
MW-1	10/16/97	10 - 12	ND	ND	ND	ND	ND	ND	ND	16.0
MW-1	10/16/97	21 - 23	ND	ND	ND	ND	ND	ND	ND	15.9
MW-2	10/15/97	10 - 12	ND	ND	ND	ND	ND	ND	ND	15.4
MW-2	10/15/97	19 - 21	ND	ND	ND	ND	ND	ND	ND	14.5
MW-3	10/15/97	10 - 12	ND	ND	ND	ND	ND	ND	ND	10.6
MW-3	10/15/97	20 - 22	ND	ND	ND	ND	ND	ND	ND	12.6
MW-4	10/29/99	10 - 12	ND	ND	ND	ND	ND	ND	ND	ND
MW-4	10/29/99	15 - 17	ND	ND	ND	ND	ND	ND	ND	ND
WW-1	10/16/97	18 - 20	ND	ND	ND	ND	ND	ND	ND	17.8
SB-1	10/15/97	4 - 6	ND	ND	ND	ND	ND	ND	ND	18.8
SB-1	10/15/97	14 - 16	ND	ND	ND	ND	ND	ND	ND	20.1
SB-2	10/15/97	4 - 6	ND	ND	ND	ND	ND	ND	ND	20.3
SB-2	10/15/97	14 - 16	ND	ND	ND	ND	ND	ND	ND	23.3

NOTES:

NA = Not Analyzed

ND = Not Detected

Detection Limits = 0.1 mg/kg BTEX

10 mg/kg TPH

10 mg/kg GRO/DRO

TABLE 4

GROUNDWATER ELEVATION DATA
TNM97-16
ETGI PROJECT # EOT1021C

WELL NUMBER	DATE MEASURED	DEPTH TO WATER FROM PVC (feet)	ELEVATION OF WATER (feet)		PSH THICKNESS (feet)
			ACTUAL	CORRECTED	
MW-1	01/01/99	20.19	3,143.40	3,143.40	ND
MW-1	01/21/99	20.19	3,143.40	3,143.40	ND
MW-1	02/23/99	20.19	3,143.40	3,143.40	ND
MW-1	03/09/99	20.14	3,143.45	3,143.45	ND
MW-1	04/07/99	20.11	3,143.48	3,143.48	ND
MW-1	04/13/99	20.13	3,143.46	3,143.46	ND
MW-1	06/01/99	20.00	3,143.59	3,143.59	ND
MW-1	11/04/99	20.30	3,143.33	3,143.33	ND
MW-2	01/01/99	20.97	3,141.32	3,141.32	ND
MW-2	01/21/99	20.95	3,141.34	3,141.34	ND
MW-2	02/23/99	20.96	3,141.33	3,141.33	ND
MW-2	03/09/99	20.95	3,141.34	3,141.34	ND
MW-2	04/07/99	20.92	3,141.37	3,141.37	ND
MW-2	04/13/99	20.90	3,141.39	3,141.39	ND
MW-2	06/01/99	20.70	3,141.59	3,141.59	ND
MW-2	11/04/99	21.00	3,141.32	3,141.32	ND
MW-3	01/01/99	20.89	3,141.26	3,141.26	ND
MW-3	01/21/99	20.89	3,141.26	3,141.26	ND
MW-3	02/23/99	20.89	3,141.26	3,141.26	ND
MW-3	03/09/99	20.85	3,141.30	3,141.30	ND
MW-3	04/07/99	20.82	3,141.33	3,141.33	ND
MW-3	04/13/99	20.81	3,141.34	3,141.34	ND
MW-3	06/01/99	20.65	3,141.50	3,141.50	ND
MW-3	11/04/99	20.91	3,141.29	3,141.29	ND
MW-4	11/04/99	23.13	3,142.27	3,142.27	ND
VW-1	11/04/99	21.25	3,143.73	3,143.73	ND

TABLE 5

GROUNDWATER CHEMISTRY DATA
TNM 97-16
ETGI JOB # EOT1021C

SAMPLE LOCATION	SAMPLE DATE	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL-BENZENE (mg/L)	XYLENES (mg/L)	TOTAL BTEX (mg/L)
MW-1	01/21/99	ND	ND	ND	ND	ND
MW-1	04/13/99	ND	ND	ND	ND	ND
MW-1	08/24/99	ND	ND	ND	ND	ND
MW-1	11/04/99	ND	ND	ND	ND	ND
MW-2	01/21/99	ND	ND	ND	ND	ND
MW-2	04/13/99	ND	ND	ND	ND	ND
MW-2	08/24/99	ND	ND	ND	ND	ND
MW-2	11/04/99	ND	ND	ND	ND	ND
MW-3	01/21/99	ND	ND	ND	ND	ND
MW-3	04/13/99	ND	ND	ND	ND	ND
MW-3	08/24/99	ND	ND	ND	ND	ND
MW-3	11/04/99	ND	ND	ND	ND	ND
MW-4	11/04/99	ND	ND	ND	ND	ND
VW-1	01/21/99	ND	ND	ND	ND	ND

Note: Detection limit = 0.001 mg/L.

FIGURES



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FIGURE 1

Not To Scale

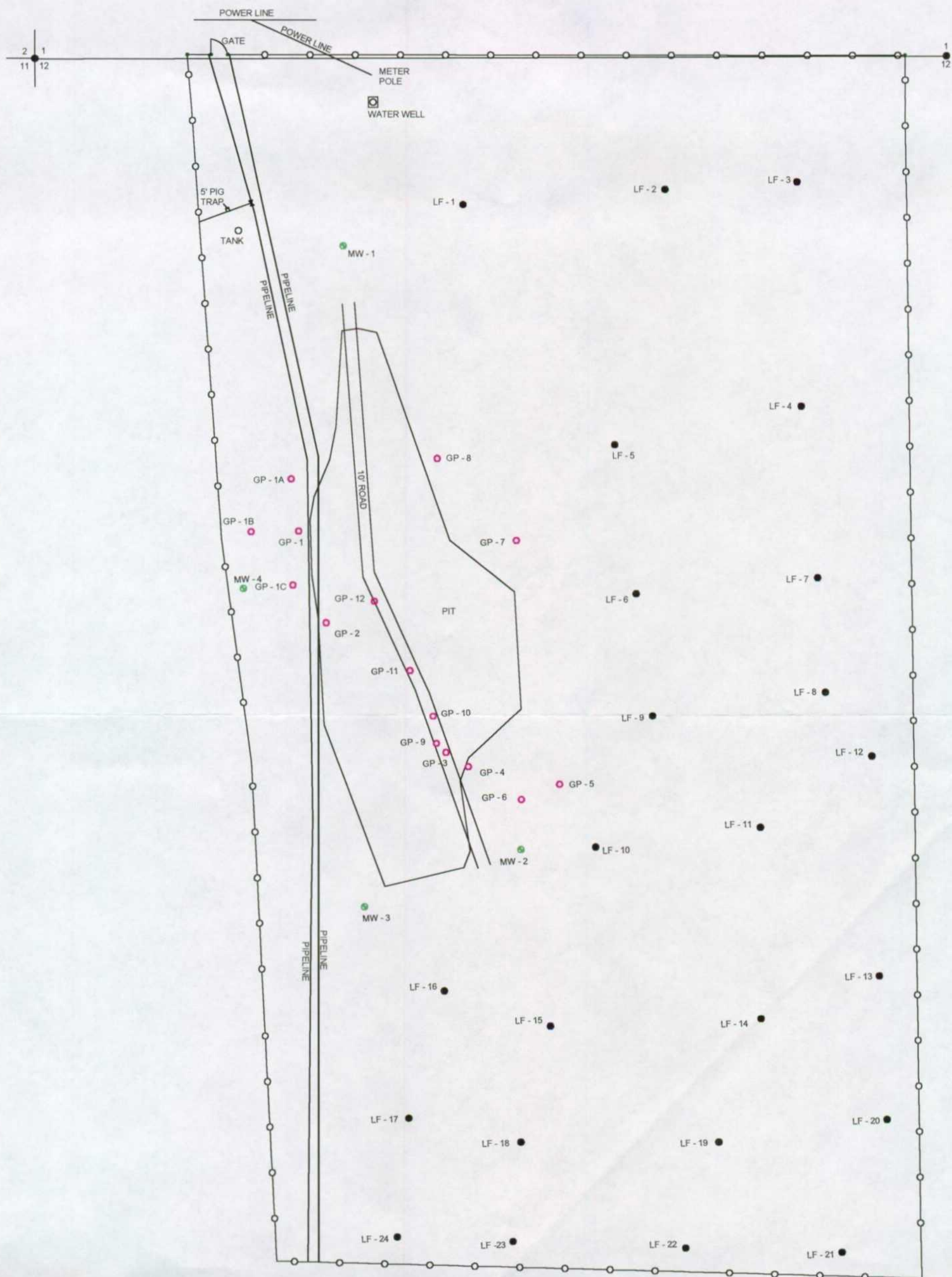
Site Location Map

EOTT Energy Corp.
Becky Doom No. 97-16
Jal, NM

Environmental
Technology
Group, Inc.

11 - 22 - 99 RS

ETGI Project # EOT 1021C



LEGEND:

- ETGI MONITORING WELLS
- ETGI GEOPROBE POINTS
- LAND FARM POINTS

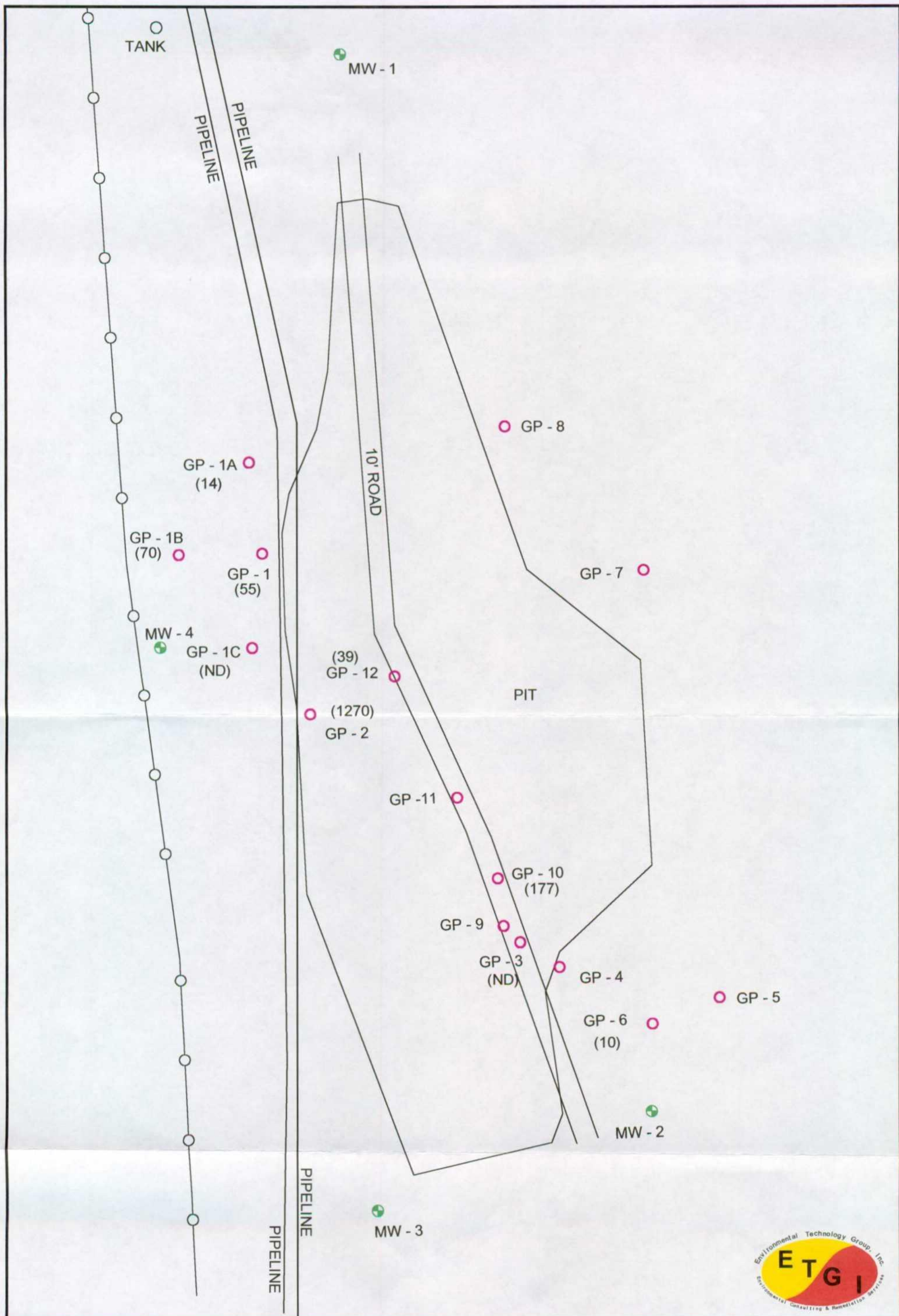
SURVEY DATE: 10/5/99

**Figure 2
Site Map**

**EOTT ENERGY
No. 97-16
Jal, NM**

**Environmental Technology
Group, INC.**

Scale: 1" = 80'	Prep By: RS	Checked By:
October 26, 1999	ETGI Project # EOT 1021C	



LEGEND:

- ETGI MONITORING WELLS
- ETGI GEOPROBE POINTS
- LAND FARM POINTS
- (ND) No Detection

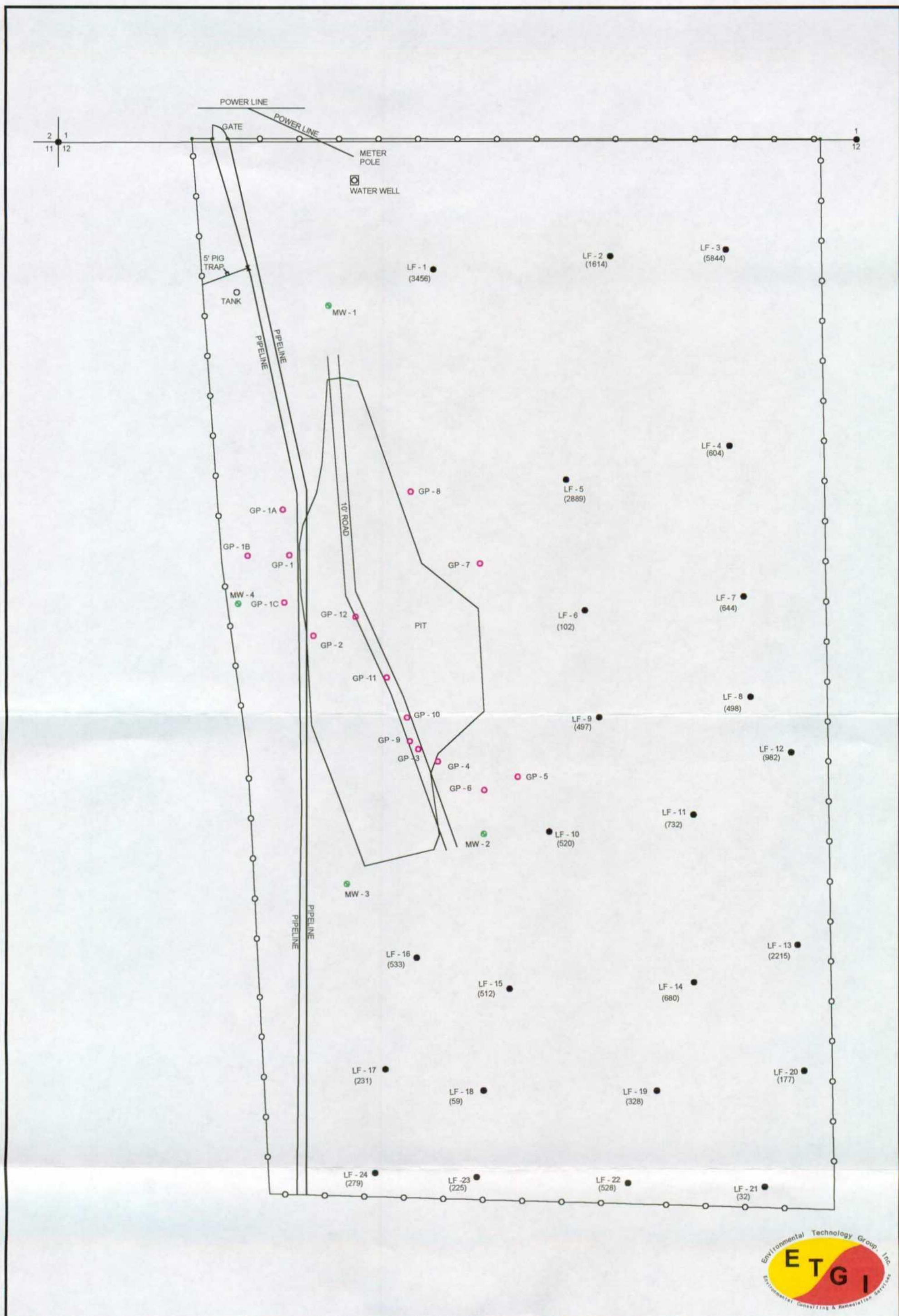
SURVEY DATE: 10/5/99

Figure 3
Geoprobe Locations and Soil Data

EOTT ENERGY No. 97-16
Jal, NM

Environmental Technology Group, INC.

Scale: 1" = 40' Prep By: RS Checked By: JN
December 3, 1999 ETGI Project # EOT 1021C



LEGEND:

- ETGI MONITORING WELLS
 - ETGI GEOPROBE POINTS
 - LAND FARM POINTS
- (3467) TPH in mg/kg
Depth = 18"

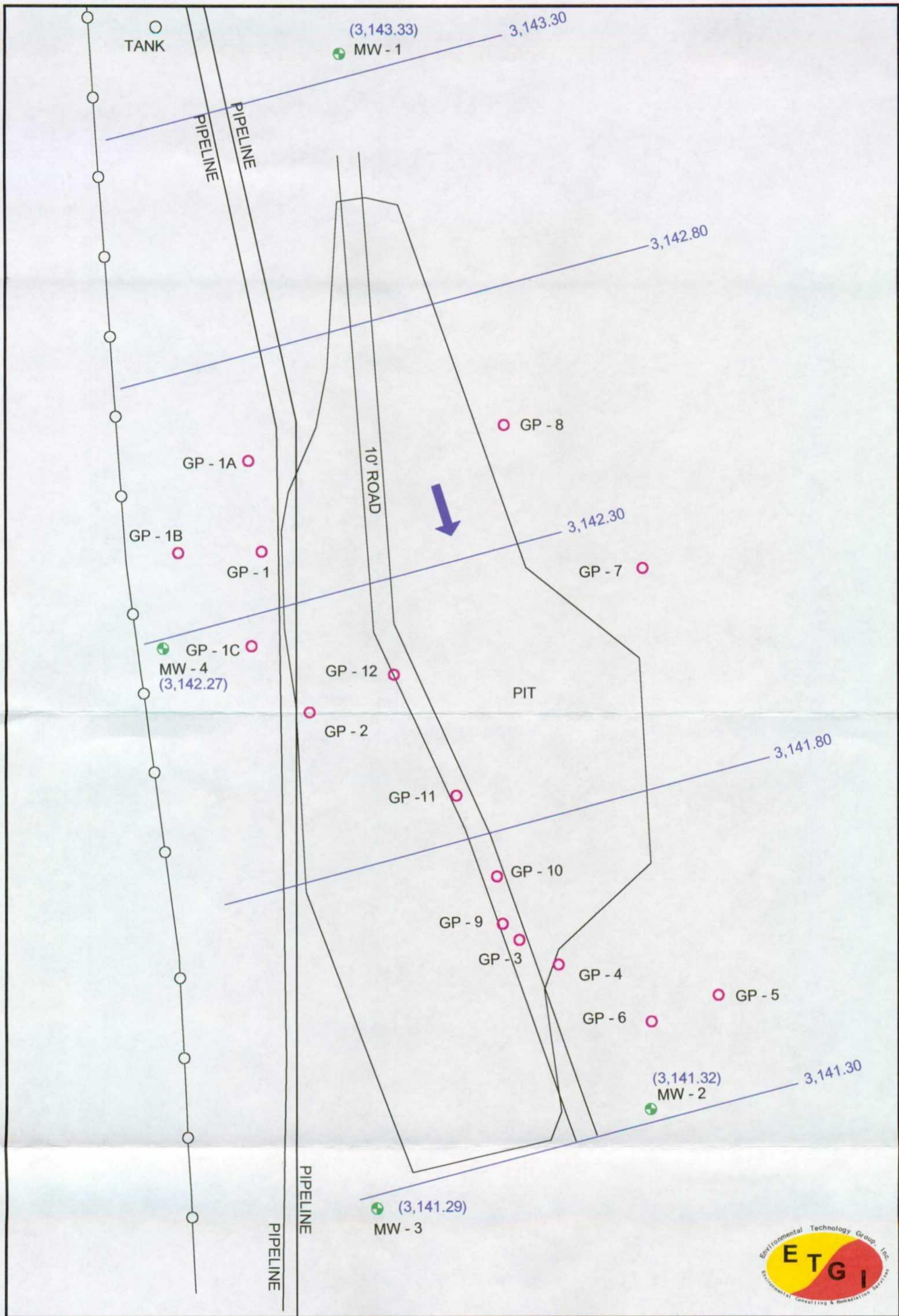
SURVEY DATE: 10/5/99

Figure 4
Land Farm Sample Locations and Soil Data Map

EOTT ENERGY No. 97-16
Jal, NM

Environmental Technology Group, INC.

Scale: 1" = 80'	Prep By: RS	Checked By:
October 26, 1999	ETGI Project # EOT 1021C	



LEGEND:

- ETGI MONITORING WELLS
- ETGI GEOPROBE POINTS
- LAND FARM POINTS
- 3,467 GROUND WATER ELEVATIONS
- ➔ INFERRED GROUND WATER FLOW DIRECTION

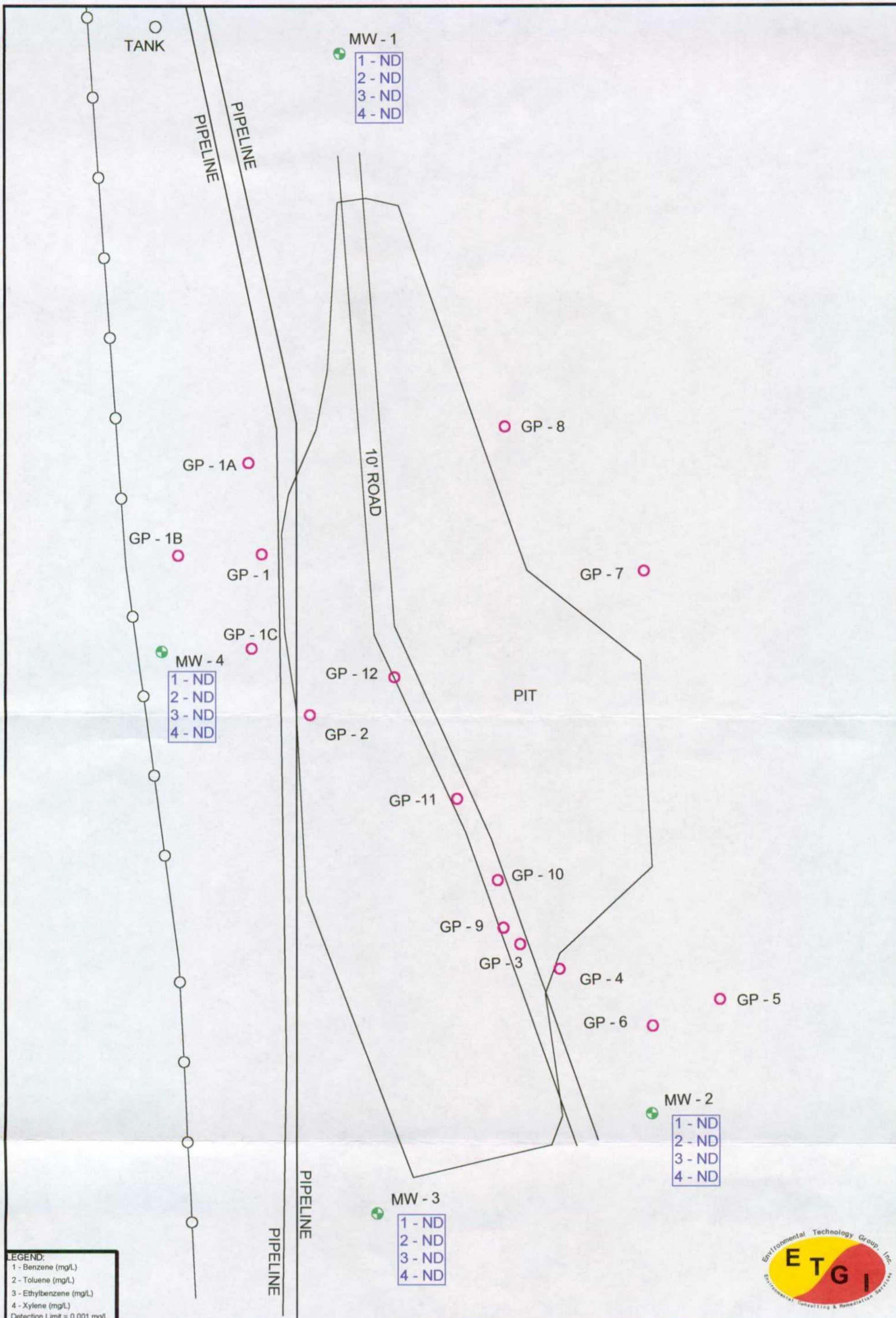
SURVEY DATE: 10/5/99

Figure 5
Inferred Ground Water Contours 11/04/99

EOTT ENERGY No. 97-16
Jal, NM

Environmental Technology Group, INC.

Scale: 1" = 40'	Prep By: RS	Checked By: JN
December 3, 1999 ETGI Project # EOT 1021C		



LEGEND:

- ETGI MONITORING WELLS
- ETGI GEOPROBE POINTS
- LAND FARM POINTS

SURVEY DATE: 10/5/99

Figure 6
Ground Water Chemistry Map 11/04/99

EOTT ENERGY No. 97-16
Jal, NM

Environmental Technology Group, INC.

Scale: 1" = 40' Prep By: RS Checked By: JN
December 3, 1999 ETGI Project # EOT 1021C

APPENDIX A

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

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

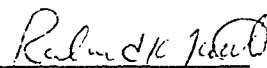
Sample Type: Soil
Sample Condition: Intact
Project #: EOT 1021C
Project Name: 97-16
Project Location: Jal, N.M.

Sampling Date: None Given
Receiving Date: 09/17/99
Analysis Date: 09/29/99

ELT#	FIELD CODE	GRO	DRO
		C6-C10 (mg/kg)	>C10-C25 (mg/kg)
20135	GP-1B-12	<10	<10
20137	GP-1B-20	<10	<10
20144	GP-2-8	<10	232
20145	GP-2-12	<10	<10

%INSTRUMENT ACCURACY	97	96
% EXTRACTION ACCURACY	100	103
BLANK	<10	<10

Methods: EPA SW 846-8015M GRO/DRO


Raland K. Tuttle

9-30-99
Date

Environmental Lab of Texas, Inc. 12600 West I-20 East Odessa, Texas 79763
 (915) 563-1800 FAX (915) 563-1713
 * 281-362-8571

CHAIN-OF-CUSTODY RECORD

Project Manager: <u>Jerry Nickells</u>		Phone #: <u>915 522-1139</u>		FAX #: <u>281-362-8571</u>		FAX #: <u>281-362-8932</u>						
Company Name & Address: <u>ETGI</u>				Project Name: <u>EOT 1021C</u>								
Project #: <u>EOT 1021C</u>				Sampler Signature: <u>[Signature]</u>								
Project Location: <u>Val New Mexico</u>				Project Name: <u>27-18</u>								
LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX			PRESERVATIVE METHOD			SAMPLING DATE	TIME	
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL			HNO3
20133	GP-13-4											
20134	" -8											
20135	" -12											
20136	" -16											
20137	" 20											
20138	GP-1C-4											
20139	" -8											
20140	" -12											
20141	" -16											
20142	" -20											
20143	"											

ANALYSIS REQUEST

TCIP Metals Ag As Ba Cd Cr Pb Hg Se	TCIP Metals Ag As Ba Cd Cr Pb Hg Se	TCIP Volatiles	TCIP Semi Volatiles	TDS	TCI
TPH 418.1	8015 MOD (KOP/20)				

Relinquished by: <u>Jesse Taylor</u>	Date: <u>9-17-99</u>	Time: <u>1840</u>	Received by: <u>[Signature]</u>	REMARKS: <u>Hold Remaining Samples for further analysis</u>
Relinquished by:	Date:	Time:	Received by:	* 8015M GAO/PRO per Jerry Nickell 9-29-99
Relinquished by:	Date:	Time:	Received by Laboratory:	

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

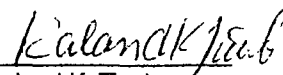
ENVIRONMENTAL TECHNOLOGY GROUP, INC.
ATTN: MR. JERRY NICKELL
P.O. BOX 4845
MIDLAND, TEXAS 79704
FAX: 915-520-4310

Sample Type: Soil
Sample Condition: Intact
Project #: EOT 1021C
Project Name: 97-16
Project Location: Jal, N.M. N. 10mi.

Sampling Date: 09/27/99
Receiving Date: 09/28/99
Analysis Date: 9/28 & 9/29/99

ELT#	FIELD CODE	GRO	DRO
		C6-C10 (mg/kg)	>C10-C25 (mg/kg)
20402	LF 1	96	3360
20403	LF 2	38	1576
20404	LF 3	152	5692
20405	LF 4	<10	604
20406	LF 5	54	2835
20407	LF 6	<10	1021
20408	LF 7	10	634
20409	LF 8	<10	498
20410	LF 9	<10	497
20411	LF 10	<10	520
20412	LF 11	10	722
20413	LF 12	13	969
20414	LF 13	38	2177
20415	LF 14	<10	680
20416	LF 15	<10	512
20417	LF 16	<10	533
20418	LF 17	<10	231
20419	LF 18	<10	59
20420	LF 19	<10	328
20421	LF 20	<10	177
20422	LF 21	<10	32
20423	LF 22	<10	528
20424	LF 23	<10	225
20425	LF 24	<10	279
20432	GP6-002 8'	<10	10
20444	GP12 10'	<10	39
	%INSTRUMENT ACCURACY	111	122
	% EXTRACTION ACCURACY	114	94
	BLANK	<10	<10

Methods: EPA SW 846-8015M GRO/DRO


Raland K. Tuttle

9-30-99
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

Project Manager:

Ronnie W. Nicks

Phone #: 915-522-1131

FAX #: 915-520-4310

Company Name & Address:

ETGI P.O. Box 4845 Midland TX 79704

Project #:

E071021C

Project Name:

97-16

Project Location:

Sad N.M. N. 16 mi

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	
20402	LF 1	1	4g								X				9/27	8:30
20403	LF 2	1														8:40
20404	LF 3	1														8:50
20405	LF 4	1														9:00
20406	LF 5	1														9:10
20407	LF 6	1														9:20
20408	LF 7	1														9:30
20409	LF 8	1														9:40
20410	LF 9	1														9:50
20411	LF 10	1														10:00
20412	LF 11	1														10:10

BTEX 8020/5030

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

8015 (GRO + RCI)

ANALYSIS REQUEST

Relinquished by:

Clay Thompson

Date:

9-28-99

Time:

1:00 PM

Received by:

[Signature]

Relinquished by:

[Signature]

Date:

[Signature]

Time:

[Signature]

Received by Laboratory:

[Signature]

REMARKS

Also For Jerry @ 201-363-8932

Environmental Lab of Texas, Inc. 12600 West 1-20 East Odessa, Texas 79763

(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Ronnie W. Norrell

Phone #: 915-825-1134

FAX #: 915-620-4310

Company Name & Address:

ETGZ P.O. Box 4845 Midland TX 79704

Project #:

EOT1021C

Project Name:

97-16

Project Location:

Salp. M. W. 10 mi

Sample 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	
20413	LF 12	1	40g									X			9/27	10:20
20414	LF 13	1														10:20
20415	LF 14	1														10:40
20416	LF 15	1														10:50
20417	LF 16	1														10:50
20418	LF 17	1														11:10
20419	LF 18	1														11:20
20420	LF 19	1														11:30
20421	LF 20	1														11:40
20422	LF 21	1														11:50
20423	LF 22	1														12:00

Relinquished by:

Clay Dierkes

Date:

9-28-99

Time:

1:00 P.M.

Received by:

[Signature]

Relinquished by:

[Signature]

Date:

Time:

Received by:

Received by Laboratory:

REMARKS

BTEX 8020/5030	
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	

8015 (G10 + D10)

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:		Phone #:		FAX #:			
Ronnie Nickel							
Company Name & Address: ETGII							
Project #:							
Project Location:							
Sampler Signature:							
LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX	PRESERVATIVE METHOD	SAMPLING DATE	TIME
				WATER SOIL AIR SLUDGE OTHER	HCL HNO3 ICE NONE OTHER		
20426	GP 4-001 4'						
20427	GP 4-002 7'						
20428	GP 5-001 4'						
20429	GP 5-002 8'						
20430	GP 5-003 11'						
20431	GP 6-001 4'						
20432	GP 6-002 8'	1					
20433	GP 6-003 12'						
20434	GP 6-004 16'						
20435	GP 7-001 4'						
20436	GP 7-002 8'						

ANALYSIS REQUEST

 TOLP Metals Ag As Ba Cd Cr Pb Hg Se
 TOLP Semi Volatiles
 TDS
 RCI
 8015 GRO/PRO
 418.1

Relinquished by:	Date:	Times:	Received by:	REMARKS
Cory Harmon	9-28-92	1:00	Jennine	
Relinquished by:	Date:	Times:	Received by:	
Relinquished by:	Date:	Times:	Received by Laboratory:	

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

[illegible]

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

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

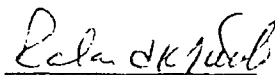
Sample Type: Soil
Sample Condition: Intact
Project #: EOT 1021C
Project Name: 97-16
Project Location: Jal, N.M.

Sampling Date: None Given
Receiving Date: 09/17/99
Analysis Date: 9/22 & 9/23/99

ELT#	FIELD CODE	GRO	DRO
		C6-C10 (mg/kg)	>C10-C25 (mg/kg)
20136	GP-1B-16	<10	70
20142	GP-1C-20	<10	<10
20143	GP-2-4	50	1220
20147	GP-3-8	<10	<10

%INSTRUMENT ACCURACY	85	113
% EXTRACTION ACCURACY	91	92
BLANK	<10	<10

Methods: EPA SW 846-8015M GRO/DRO


Raland K. Tuttle

9-27-99
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

Project Name:

Very Nickels

Phone #: 915 522-1139
FAX #:

ANALYSIS REQUEST

Company Name & Address:

ETGE

Project #:

ECOT 1021C

Project Name:

97-16

Project Location:

Ju1, NM

Sampler Signature:

[Signature]

LAB #
(LAB USE ONLY)

FIELD CODE

CONTAINERS

Volume/Amount

WATER
SOIL
AIR
SLUDGE
OTHER

MATRIX

PRESERVATIVE
METHOD

SAMPLING
DATE
TIME

ATEX 8020/5030

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

8015.100 (6RC1020)

20149 GP-2-4

20144 11-8

20145 11-12

20146 GP-3-4

20147 11-8

20148 11-12

Relinquished by:

ETGE

Date:

9-17-99

Time:

1840

Received by:

[Signature]

REMARKS

Hold Remaining Samples
for further analyses

Relinquished by:

Date:

Time:

Received by:

Relinquished by:

Date:

Time:

Received by Laboratory:

(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

ANALYSIS REQUEST

Sampler Signature:

BTEX 8020/5030

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

8015 MOD (LRC/DRC)

20133	6P-1B-4
20134	" -8
20135	" -12
20136	" -16
20137	" 20
20138	6P-1C -4
20139	" -8
20140	" -12
20141	" -16
20142	" -20
20143	"

REMARKS
Hold Terminating Samples

Relinquished by:	Date:	Time:	Received by:

Relinquished by:	Date:	Time:	Received by Laboratory:
------------------	-------	-------	-------------------------

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

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

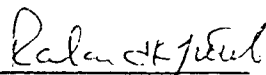
Sample Type: Soil
Sample Condition: Intact/Iced
Project #: TNM 97-16 / EOT 10
Project Name: BJ Doom
Project Location: 8 miles N. of Jal, N.M.

Sampling Date: 09/15/99
Receiving Date: 09/16/99
Analysis Date: 09/18/99

ELT#	FIELD CODE	GRO	DRO
		C6-C10 (mg/kg)	>C10-C25 (mg/kg)
20038	GP1-004	<10	38
20039	GP1-005	<10	<10
20040	GP1-006	<10	55
20041	GP1A-001	<10	<10
20046	GP1A-006	<10	14
20048	GP10-002	<10	23
20049	GP10-003	<10	177

%INSTRUMENT ACCURACY	105	117
% EXTRACTION ACCURACY	72	78
BLANK	<10	<10

Methods: EPA SW 846-8015M GRO/DRO


Raland K. Tuttle

9-20-99
Date

(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Phone #: 415-522-1139

FALY H:

ANALYSIS REQUEST

ETC.

Project Name:

Sampler Signature:

8 miles N. of Jol N.M.

Sampler Signatures:

LAB # (LAB USE) ONLY	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX					PRESERVATIVE METHOD					SAMPLING		REMARKS	
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	ICE	NONE	OTHER	DATE	TIME		
20035	GP1-001	1	402	X						X				9-15	10:20	BTEX 8020/5030	
20036	GP1-002	1	402	X						X				9-15	10:10	TPH 418.1	
20037	GP1-003	1	402	X						X				9-15	10:15	TCLP Metals Ag As Ba	
20038	GP1-004	1	402	X						X				9-15	10:20	Total Metals Ag As Ba	
20039	GP1-005	1	402	X						X				9-15	10:23	TCLP Volatiles	
20040	GP1-006	1	402	X						X				9-15	10:28	TCLP Semi Volatiles	
20041	GP1-007	1	402	X						X				9-15	10:33	TDS	
20042	GP1-008	1	402	X						X				9-15	10:40	RCI	
20043	GP1-009	1	402	X						X				9-15	11:00	8015 Mod	
20044	GP1-004	1	402	X						X				9-15	11:20		
20045	GP1-005	1	402	X						X				9-15	12:00		
Relinquished by: Gary Shuman		Date: 9-16-99	Time: 8:05	Received by: J. McNamee		REMARKS: Held all for further analysis											
Relinquished by:		Date:	Time:	Received by:													
Relinquished by:		Date:	Time:	Received by Laboratory:													

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

Project Manager:

JERRY WICKEL

Phone #: (915) 522-1151

FAX #:

Company Name & Address:

ETGL

Project #:

16M97-16/FET-10

Project Name:

BT BROWN

Project Location:

8 miles N. of Jal N.M.

Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING	
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	ICE	NONE	OTHER

280416	6P1A-006	1	402	X							X			9-15	3:05
280417	6P1D-001	1	402	X							X			9-15	3:05
280418	6P1D-002	1	402	X							X			9-15	3:40
280419	6P1D-003	1	402	X							X			9-15	3:15

ANALYSIS REQUEST

BTX 8102/5030	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
---------------	-----------	-------------------------------------	--------------------------------------	----------------	---------------------	-----	-----

8015 Mtd. 080/680

X

X

X

Relinquished by:

Clay Brown

Date:

9-16-99

Time:

8:05 AM

Received by:

9mmmm

Relinquished by:

Date:

Time:

Received by:

Received by Laboratory:

REMARKS

Hold all for Further Analysis

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

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

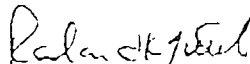
Sample Type: Soil
Sample Condition: Intact/Iced
Project #: TNM 97-16 / EOT 10
Project Name: BJ Doom
Project Location: 8 miles N. of Jal, N.M.

Sampling Date: 09/15/99
Receiving Date: 09/16/99
Analysis Date: 09/18/99

ELT#	FIELD CODE	GRO C8-C10 (mg/kg)	DRO >C10-C25 (mg/kg)
20038	GP1-004	<10	38
20039	GP1-005	<10	<10
20040	GP1-006	<10	55
20041	GP1A-001	<10	<10
20046	GP1A-006	<10	14
20048	GP10-002	<10	23
20049	GP10-003	<10	177

%INSTRUMENT ACCURACY	105	117
% EXTRACTION ACCURACY	72	86
BLANK	<10	<10

Methods: EPA SW 846-8015M GRO/DRO


Raland K. Tuttle

9-20-99
Date

Environmental Lab of Texas, Inc. 12600 West 1120 East Odessa, Texas 79763

(915) 563-1800 FAX (915) 563-1713

CUSTOMER CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Phone #: 915-563-1739

JERRY WICKER

FAX #:

ANALYSIS REQUEST

Company Name & Address:

ETG

Project #:

Project Name:

TNM 97-16/EST 10

BT Doo W

Project Location:

Sampler Signature:

8 miles N. of Jael NM.

LAS # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX					PRESERVATIVE METHOD					SAMPLING	
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	ICE	NONE	OTHER	DATE	TIME

25035	GP1-001	1	4oz	X										9-15	10:00
25036	GP1-002	1	4oz	X										9-15	10:10
25037	GP1-003	1	4oz	X										9-15	10:15
25038	GP1-004	1	4oz	X										9-15	10:20
25039	GP1-005	1	4oz	X										9-15	10:23
25040	GP1-006	1	4oz	X										9-15	10:28
25041	GP1-007	1	4oz	X										9-15	10:33
25042	GP1A-002	1	4oz	X										9-15	10:40
25043	GP1A-003	1	4oz	X										9-15	11:00
25044	GP1A-004	1	4oz	X										9-15	11:20
25045	GP1A-005	1	4oz	X										9-15	2:00

BTEX 8020/5030	
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	
8015 Mod BRO/DRO	

Relinquished by:

Date:

Time:

Received by:

REMARKS

Clay Shanon

9-16-99

8:05

Shannon

Relinquished by:

Date:

Time:

Received by:

REMARKS

field all for further analysis

Relinquished by:

Date:

Time:

Received by Laboratory:

Environmental Lab of Texas, Inc. 12600 West 120 East Odessa, Texas 79763

(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager:

Phone #: (915) 522-1133

JERRY WICKEL

FAX #:

ANALYSIS REQUEST

Company Name & Address:

ETGI

Project #:

Project Name:

18M97-16/FEOT-10

BT Boom

Project Location:

Sampler Signature:

8 miles N. of Jq1

N.M.

LAB #
(LAB USE ONLY)

FIELD CODE

CONTAINERS

Volume/Amount

WATER

SOIL

AIR

SLUDGE

OTHER

HCL

HNO3

ICE

NONE

OTHER

DATE

TIME

SAMPLING

PRESERVATIVE METHOD

MATRIX

BTEX 8020/5030

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

8015 Med. DRG/GRO

200416 GRIA-006

1 402

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200417 GRIA-001

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200419 GRIA-003

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Relinquished by:

Date:

Time:

Received by:

REMARKS

Relinquished by:

Date:

Time:

Received by:

Relinquished by:

Date:

Time:

Received by Laboratory:

Hold all for further analysis

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)

FAX: 915-520-4310

Sampling Date: 10/29/99

Receiving Date: 10/30/99

Analysis Date: 11/02 & 11/03/99

Sample Type: Soil

Sample Condition: Intact/loose

Project #: TNM 87-16

Project Name: None Given

Project Location: Lea County, N.M.

ELT#	FIELD CODE	GRO C8-C10 mg/kg	DRO >C10-C25 mg/kg
21168	MW-4 (10-12')	<10	<10
21169	MW-4 (15-17')	<10	<10

% INSTRUMENT ACCURACY

110

100

% EXTRACTION ACCURACY

109

100

BLANK

<10

<10

Methods: EPA SW 846-8015M GRO/DRO

Roland K Tuttle
Roland K Tuttle

11-5-99
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: 915-520-4310
FAX: 505-392-3760(Ken Dutton)

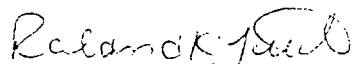
Sample Type: Soil
Sample Condition: Intact/Iced
Project #: TNM 97-16
Project Name: None Given
Project Location: Lea County, N.M.

Sampling Date: 10/29/99
Receiving Date: 10/30/99
Analysis Date: 11/02/99

ELT#	FIELD CODE	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	m,p-XYLENE (mg/kg)	o-XYLENE (mg/kg)
21168	MW-4 (10-12')	<0.100	<0.100	<0.100	<0.100	<0.100
21169	MW-4 (15-17')	<0.100	<0.100	<0.100	<0.100	<0.100

% IA	95	91	91	90	90
BLANK	<0.100	<0.100	<0.100	<0.100	<0.100

METHODS. SW 846-8021,5030


Raland K. Tuttle

11-5-99
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)
FAX: 915-520-4310

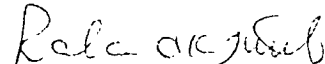
Sample Type: Soil
Sample Condition: Intact/Iced
Project #: TNM 97-16
Project Name: None Given
Project Location: Lea County, N.M.

Sampling Date: 10/29/99
Receiving Date: 10/30/99
Analysis Date: 11/02 & 11/03/99

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C25 mg/kg
21168	MW-4 (10-12')	<10	<10
21169	MW-4 (15-17')	<10	<10

% INSTRUMENT ACCURACY	110	100
% EXTRACTION ACCURACY	109	100
BLANK	<10	<10

Methods: EPA SW 846-8015M GRO/DRO


Raland K. Tuttle

11-5-99
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)

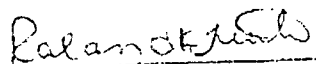
Sample Type: Water
Sample Condition: Intact/leach/HCl
Project #: EOT 1015C
Project Name: TNM 97-16
Project Location: Lea County, N.M.

Sampling Date: 11/04/99
Receiving Date: 11/06/99
Analysis Date: 11/06/99

ELTH	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	mp-XYLENE mg/L	o-XYLENE mg/L
21404	MW-1	<0.001	<0.001	<0.001	<0.001	<0.001
21405	MW-2	<0.001	<0.001	<0.001	<0.001	<0.001
21406	MW-3	<0.001	<0.001	<0.001	<0.001	<0.001
21407	MW-4	<0.001	<0.001	<0.001	<0.001	<0.001

% IA	105	101	102	103	102
% EA	103	98	98	99	99
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: SW 846-8021.5030


Ralston K. Tuttle

11-17-99
Date

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
Project #: EOT 1015C
Project Name: TNM 97-16
Project Location: Lea County, N.M.
Field Code: MW-4

Sampling Date: 11/04/99
Receiving Date: 11/08/99
Extraction Date: 11/10/99
Analysis Date: 11/13/99

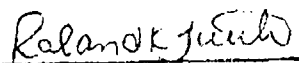
EPA SW846 8270 (mg/l)	REPORT LIMIT	ELT# 21407	RPD	%EA	%IA
Naphthalene	0.005	ND			48
Acenaphthylene	0.005	ND			60
Acenaphthene	0.005	ND	17.14	57	62
Fluorene	0.005	ND			66
Phenanthrene	0.005	ND			72
Anthracene	0.005	ND			68
Fluoranthene	0.005	ND			72
Pyrene	0.005	ND	0.00	63	76
Benzo[a]anthracene	0.005	ND			74
Chrysene	0.005	ND			74
Benzo[b]fluoranthene	0.005	ND			54
Benzo[k]fluoranthene	0.005	ND			114
Benzo[a]pyrene	0.005	ND			70
Indeno[1,2,3-cd]pyrene	0.005	ND			72
Dibenz[a,h]anthracene	0.005	ND			74
Benzo[g,h,i]perylene	0.005	ND			74

% RECOVERY

Nitrobenzene-d5 SURR 52
2-Fluorobiphenyl SURR 51
Terphenyl-d14 SURR 58

ND= NOT DETECTED

Method: EPA SW 846 8270C, 3510


Raland K. Tuttle

11-16-99
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

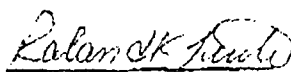
ENVIRONMENTAL TECHNOLOGY GROUP, INC.
ATTN: MR. JESSE TAYLOR
P.O. BOX 4845
MIDLAND, TEXAS 79704
FAX: 505-392-3760

Sample Type: Water
Sample Condition: Intact/loos/HCl
Project #: EOT 1015C
Project Name: TNM 97-18
Project Location: Lea County, N.M.

Sample Date: 11/04/99
Receiving Date: 11/06/99
Analysis Date: 11/12/99
Analysis Date: Hg 11/11/99

Analyte (mg/L)	MW-4 21407	Reporting Limit	%IA	%EA	BLANK	RPD
Aluminum	29.10	0.0500	*	*	<0.0500	*
Arsenic	0.0160	0.0050	104	108	<0.0050	1.87
Barium	0.9630	0.0100	96	97	<0.0100	0.50
Beryllium	ND	0.0040	102	104	<0.0040	0.00
Cadmium	ND	0.0010	96	98	<0.0010	0.00
Calcium	228.0	1.000	101	*	<1.000	3.66
Chromium	0.0390	0.0050	94	97	<0.0050	0.52
Cobalt	ND	0.0200	97	98	<0.0200	0.82
Copper	0.0100	0.0100	96	96	<0.0100	0.41
Iron	25.50	0.0500	103	8	<0.0500	42.21
Lead	0.0130	0.0030	98	94	<0.0030	0.00
Magnesium	87.80	1.000	99	*	<1.000	5.42
Manganese	0.3070	0.0150	94	94	<0.0150	1.62
Mercury	ND	0.00020	101	98	<0.00020	13.04
Molybdenum	ND	0.050	8	*	<0.050	*
Nickel	0.0260	0.0100	95	94	<0.0100	1.24
Potassium	22.60	1.000	81	*	<1.000	15.75
Selenium	0.0200	0.0050	106	110	<0.0050	3.70
Silver	ND	0.0050	94	96	<0.0050	2.11
Sodium	372.0	1.000	112	*	<1.000	1.88
Tin	ND	0.0500	*	*	<0.0500	*
Vanadium	0.2510	0.0200	96	97	<0.0200	0.41
Zinc	0.0510	0.0200	91	94	<0.0200	0.00
Boron	0.562	0.050	*	*	<0.050	*
Strontium	2.11	0.050	*	*	<0.050	*

ND = Below Reporting Limit
METHOD: EPA SW846-6010B, 7470


Roland K. Tuttle

11-16-99
Date

0 West I-20 East Odessa, Texas 79763
(915) 563-1800 FAX (915) 563-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

Phone #: (915) 664-9111

FAX#: (505) 392-3760

ANALYSIS REQUEST

20036

FTGL

FD-302 (Rev. 4-15-64)

Midland, TX

79704

Project#:

Project Name :

FOT 1015 C

7NM 97-16

Project Location:

Sampler Signature:

Lee County, NM

Signature: _____
 Simon Good

[illegible]

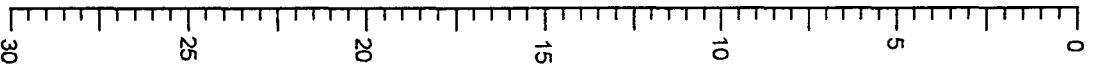
REMARKS
Mail result to K. Dutton

Invoice: Length Frost Poth 10/15m

APPENDIX B

Monitoring Well MW-4

Depth (feet) Soil Columns PID Reading Notes



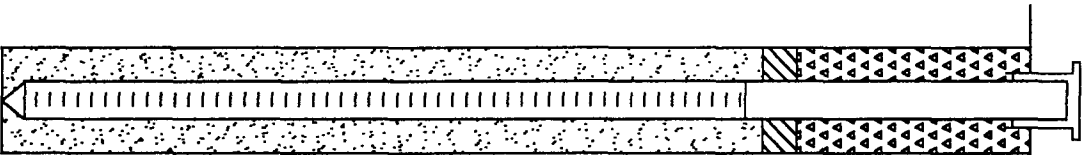
TD

3.9

1.1

1.7

Σ



Monitoring Well Details

Date Drilled 10 - 29 - 99
 Thickness of Bentonite Seal 2.0 ft
 Length of PVC Well Screen 20 ft
 Depth of PVC Well 28 ft
 Depth of Exploratory Well 28 ft
 Depth to Ground Water 19 ft

- Indicates samples selected for laboratory analysis.
- GROUT Surface Seal
- Bentonite Pellet Seal
- Sand Pack
- Screen

Legend

- Sand - (SP) - Tan, very fine grained, well sorted, silty, heavy stain, strong odor
- Sand - (SP) - Brown, very fine grained, well sorted, moist, no stain, no odor
- Indicates the PSH level measured on date.
- Indicates the ground water level measured on date.
- PID Head-space reading in ppm obtained with a photo-ionization detector.
- ND Indicates the constituent was not detected

Legend

- The monitoring well was installed on date using air rotary drilling techniques.
- The well was constructed with 2" ID, 0.010 inch factory slotted, threaded joint, schedule 40 PVC pipe.
- The well is protected with a locked slick up steel cover and a compression cap.
- The lines between material types shown on the profile log represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.

Boring Log And Monitoring Well Details

Monitoring Well - 4

EOTT Energy Corp. TMN 97 - 16 Lea County, NM



Environmental Technology Group, Inc.

Scale: NTS Prep By: RS Checked By: JT
 November 11, 1999 ETGI Project # EOT 1021C

**ADDENDUM TO ADDITIONAL SUBSURFACE
INVESTIGATION AND MODIFIED STAGE II
ABATEMENT PLAN**

1R-138

**TNM 97-16
Lea County, New Mexico
NE ¼ of the NW ¼ of Section 12, Township 24 South, Range 37 East
NMOCD ID#: 1R-138
Latitude: North 32° 14' 21.3"
Longitude: West 103° 07' 07.7"**

Prepared For:
Plains Marketing, LP
333 Clay Street, Suite 1600
Houston, Texas 77002

RECEIVED

AUG 23 2004
Oil Conservation Division
Environmental Bureau

Prepared By:
NOVA Safety and Environmental
2057 Commerce Street
Midland, Texas 79703

July 2004


Todd K. Choban
Vice-President Technical Services

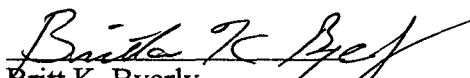

Britt K. Byerly
President

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Figures

FIGURE 1:	Site Location Map
FIGURE 2:	Site Map

Tables

TABLE 1:	Concentrations of TPH and BTEX in Soil
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Appendices

APPENDIX A:	Laboratory Reports
APPENDIX B:	New Mexico Oil Conservation Division Correspondence
APPENDIX C:	State Engineer Plugging Record

CHRONOLOGY OF EVENTS

July 30, 1997	Release Discovered, 748 Barrels of Crude Oil Released, 80 Barrels Recovered and Reported to New Mexico Oil Conservation Division (NMOCD)
August 12, 1997	Approximately 32,000 Cubic Yards of Impacted Soil Excavated and Applied to On-site Treatment Cell
October 15 and 16, 1997	Installation of Two Soil Borings, Three Groundwater Monitor Wells (MW-1 through MW-3) and a Water Supply Well (WW-1)
May 14, 1998	Subsurface Investigation Report Submitted to NMOCD
September 15, 1998	Soil Samples Collected from Excavation Walls and Bottom
October 29, 1998	Work Plan Submitted to NMOCD
January 21, 1999	Groundwater Sampling Event
April 13, 1999	Groundwater Sampling Event
August 24, 1999	Groundwater Sampling Event
September 1999	Environmental Technology Group, Inc. (ETGI) Assumes Control of Remedial Action Planning
September 15, 1999	17 Geoprobe Borings Advanced at Site
September 27, 1999	24 Soil Samples Collected from the On-site Treatment Cell
October 29, 1999	Installation of Groundwater Monitor Well (MW-4)
November 4, 1999	Groundwater Sampling Event
January 5, 2000	Submission of Additional Subsurface Investigation Report and Modified Stage 2 Abatement Plan
January 13, 2000	Groundwater Sampling Event
April 5, 2000	Groundwater Sampling Event
September 5, 2000	Groundwater Sampling Event

CHRONOLOGY OF EVENTS CONTINUED

November 21, 2000	Groundwater Sampling Event
January 25, 2001	Groundwater Sampling Event
April 3, 2001	Groundwater Sampling Event
June 28, 2001	Groundwater Sampling Event
September 10, 2001	Groundwater Sampling Event
October 22, 2001	Groundwater Sampling Event
November 20-December 3, 2001	Approximately 12,000 Cubic Yards of Soil from On-site Treatment Cell Shredded and Sampled
December 3, 2001	Shredding and Aeration of Soil in Treatment Cell Stopped per Landowner Request
January 28, 2002	Groundwater Sampling Event
May 13, 2002	Groundwater Sampling Event
June 3, 2002	Soil Samples Collected from Excavation Walls and Bottom
August 19, 2002	Groundwater Sampling Event
December 16, 2002	Groundwater Sampling Event
March 26, 2003	Groundwater Sampling Event
April 17, 2003	Soil Samples Collected from East Wall of Excavation
May 28, 2003	Letter from NMOCD approving groundwater sampling termination
June 6, 2003	Groundwater Sampling Event
September 2, 2003	Groundwater Sampling Event
September 4, 2003	Soil Samples Collected from Geoprobe GP-2 and GP-10 Areas in Bottom of Excavation

September 11, 2003	Excavated Approximately 1,370 Cubic Yards of Soil from South and East Wall of Excavation, Applied Soil to On-site Treatment Cell
September 15, 2003	Soil Samples Collected from On-site Treatment Cell
December 2, 2003	Groundwater Sampling Event
April, 2004	Annual Monitoring Report to NMOCD
May 14, 2004	Plugging and Abandonment of monitor wells
July, 2004	Addendum to Additional Subsurface Investigation and Modified Stage II Abatement Plan submitted to NMOCD

1.0 INTRODUCTION AND SITE BACKGROUND

The site is located approximately fourteen miles south of the town of Eunice, New Mexico in the NE ¼ of the NW ¼ of Section 12, Township 24 South, Range 37 East. For reference, a Site Location Map and Site Map are provided as Figures 1 and 2, respectively. The contents of this addendum are intended to adhere to reporting requirements promulgated in Rule 19.E New Mexico Administrative Code (NMAC) 15.A19.E (3) and 19.E (4). On July 30, 1997, Texas New Mexico Pipeline personnel discovered that a release of crude oil had occurred from its pipeline. An estimated 748 barrels of crude oil was released of which an estimated 80 barrels were recovered during emergency response actions.

Approximately 32,000 cubic yards of impacted soil was excavated and applied to a treatment cell east of the release point as depicted on Figure 2. In October 1997, two soil borings (SB-1 and SB-2) and three monitor wells (MW-1, MW-2 and MW-3) were installed at the site. In addition, a water supply well, WW-1, was installed to provide water for dust control of the treatment cell. On September 15, 1998 twenty-three soil samples were collected from the excavation walls and bottom. In September 1999, seventeen Geoprobe® points were advanced near the excavation walls and 24 soil samples were collected from the on-site treatment cell. In October 1999, groundwater monitor well MW-4 was installed as near to the release point as possible.

Project management responsibilities for this site were transferred from Environmental Technology Group, Inc. (ETGI) to NOVA Safety and Environmental (NOVA) as of June 1, 2004. NOVA is submitting this Addendum to Additional Subsurface Investigation Report and Modified Stage 2 Abatement Plan, to describe recent field activities conducted on-site and to establish a schedule of abatement plan activities to achieve site closure as set forth by the State of New Mexico under NMAC Rule 19 standards. The regulatory basis for this Additional Subsurface Investigation Report and Modified Stage 2 Abatement Plan is NMAC Rule 19 and the NMOCD guidance document Guidelines for Remediation of Leaks, Spills, and Releases, (August 1993).

A review of the data existing for this site indicated the following:

- The soil column consists primarily of fine grained, well-sorted, loose, brown to tan sand;
- No phase separated hydrocarbons have been detected in the soil or groundwater at the site;
- Total Petroleum Hydrocarbon (TPH) concentrations in the soil samples collected from the treatment cell range from 12.5 mg/kg to 2,140 mg/kg;
- Analytical results indicate soil which exceed NMOCD regulatory standards (100 mg/kg TPH) remain in place on the south and east walls of the excavation, however, Mr. Ed Martin (NMOCD) stated that additional excavation of these areas was not necessary.
- The groundwater case at the site was closed by the NMOCD in a letter dated May 28, 2003 and the monitor wells were plugged and abandoned on May 14, 2004.

2.0 SUMMARY OF RECENT FIELD ACTIVITIES

ETGI supervised shredding and blending of the approximately 12,000 cubic yards of previously excavated soil in the on-site treatment cell in November and December 2001. The soil was shredded, blended and nitrogen-enriched nutrients were added to enhance oxidation rates and promote microbial activity. Soil remediation activities were stopped in December 2001 due to landowner request.

Soil samples were collected on November 26, 29, 30 and December 1, 2001 from the treated stockpiled soil, the excavation and the untreated excavated soil. Review of laboratory analytical results indicated soils below NMOCD regulatory standards on the northeast sidewall, the northwest sidewall, southwest sidewall and the far north point of the excavation. The laboratory analytical results of the soil samples collected from southeast sidewall of the excavation, and the treated and untreated stockpiled soil indicated TPH concentrations in excess of NMOCD regulatory standards. Mr. Ed Martin (NMOCD) stated that excavation of these areas was not required based on the most recent laboratory data. Soil samples were collected from the sidewalls and bottom of the excavation in June 2002 to assess existing TPH and BTEX constituent concentrations. Review of laboratory analysis of the soil samples collected from the June sampling event indicated that additional characterization was necessary along the east sidewall of the excavation. The east sidewall of the excavation was divided into three sections and resampled in April 2003 to delineate the extent of impacted soil in-place. Review of the analytical results indicated that additional soil in-place on the middle and southern areas of the east sidewall exceeded the NMOCD regulatory standard. Approximately 1,370 cubic yards of soil was excavated from these areas on September 11, 2003 and was applied to the on-site treatment cell.

As documented in the Additional Subsurface Investigation Report and Modified Stage 2 Abatement Plan, January 2000, seventeen Geoprobe® borings were advanced at the site to complete lateral and vertical soil delineation actions in September 1999. Review of the laboratory report from analysis of the soil samples indicated TPH concentrations exceeding NMOCD regulatory standards in two of the Geoprobe® borings. The soil samples collected from boring GP-2 at depths of four feet and eight feet bgs exhibited TPH concentrations of 1,270 mg/kg and 232 mg/kg, respectively. The soil sample collected from boring GP-10 at a depth of six feet bgs exhibited a TPH concentration of 177 mg/kg. Soil samples were collected from these two areas utilizing a hand auger on September 4, 2003 to assess a more current TPH concentration in these two areas. Samples were collected at approximately 2, 4, 6, 8 and 10 feet bgs in the area of boring GP-2 and at approximately 2, 4, 6 and 8 feet bgs in the area of boring GP-10. Review of the laboratory analysis of the recent soil sampling event indicate that TPH concentrations have decreased significantly in the area of boring GP-2 at the four foot depth but only slightly in the eight foot interval. TPH concentrations observed in the area of boring GP-10 are comparable with the initial laboratory analysis results collected in September 1999.

The treatment cell was divided into a grid pattern consisting of 115 sections holding approximately 250 cubic yards of soil in each and sampled by collecting six-point composite samples from each section. Review of the laboratory analysis of the soil samples collected

from the on-site treatment cell indicates TPH concentrations ranging from 12.5 mg/kg to 2,544 mg/kg and BTEX constituent concentrations below the NMOCD regulatory standard. An itemized listing of all soil sampling results is shown on Table 2, Concentrations of TPH and BTEX in Soil. Copies of the laboratory reports generated from soil sampling activities described herein are included as Appendix A.

Soil samples were submitted under a completed chain-of-custody to Environmental Lab of Texas of Odessa, Texas and analyzed for TPH-GRO/DRO constituent concentrations utilizing EPA Method SW 846-8015M. Soil samples with a TPH concentration below NMOCD regulatory standards were also analyzed for BTEX constituent concentrations utilizing EPA Method SW 846-8260b.

2.1 Distribution of Hydrocarbons in the Unsaturated Zone

BTEX and TPH concentrations identified in the soil samples collected from the excavation sidewalls in June 2002 and September 2003 are all below applicable NMOCD regulatory standards. Analytical results indicate concentrations in excess of NMOCD regulatory standards for TPH remain in place in the area of Geoprobe® GP-10 at approximate depths of 6 to 8 feet bgs and in the area of Geoprobe® GP-2 at approximate depths of 2 and 8 feet bgs. In a discussion between Mr. Ed Martin (NMOCD), Jeff Dann (Plains) and Camille Reynolds (Formerly ETGI), Mr. Martin stated that no additional excavation of the impacted soils at locations of GP2 and GP-10 would be necessary based on the most recent laboratory data. One hundred fifteen soil samples were collected from the on-site treatment cell to assess current BTEX and TPH concentrations. Review of the laboratory analysis indicates TPH concentrations ranging from 12.5 mg/kg to 2,544 mg/kg and BTEX constituent of soil in the treatment cell concentrations below NMOCD regulatory standards (Table 2). Out of the 115 treatment cell samples, a total of 29 samples exhibited TPH concentrations less than 100 mg/kg, a total of 38 more samples exhibited TPH concentrations between 100 and 300 mg/kg, and a total of 13 more samples exhibited TPH concentrations between 300 and 500 mg/kg.

The distribution of hydrocarbons in the unsaturated zone has been estimated by utilizing the following techniques:

- Visual observations and PID readings of soil samples; and
- Review of laboratory analyses of soil samples.

2.2 Distribution of Hydrocarbons in the Saturated Zone

Groundwater was encountered at depths varying from 20 to 23 feet bgs in the groundwater monitor wells on-site (Table 1). The groundwater gradient as estimated from measurements collected on December 2, 2003 was 0.004 ft/ft to the southeast (Figure 3). Review of the analytical results generated during quarterly groundwater monitoring events indicates benzene and BTEX concentrations are below NMOCD regulatory standards in all of the on-site groundwater monitor wells (Table 3). The presence of Phase Separated Hydrocarbons (PSH) has not been detected on the groundwater at this site. In a letter dated May 28, 2003, the NMOCD approved termination of groundwater monitoring at the site (Appendix B).

2.3 Plugging and Abandonment of Monitor Wells

On May 14, 2004 the four groundwater monitor wells (MW-1 through MW-4) were plugged and abandoned in accordance with State of New Mexico guidelines. This activity was performed by a licensed water well driller. Well casings were cut off below grade and a bentonite grout slurry was pumped down the well casings filling to the surface. All surface finish-out construction was removed from the well locations. Plugging reports are provided in Appendix C.

3.0 SCHEDULE OF ABATEMENT PLAN ACTIVITIES

Based on the lack of groundwater impact at the site, successful remediation of the in place crude oil impacted soil, and treatment of the impacted soil in the treatment area, Plains requests a change in the soil cleanup standard at the site from 100 mg/kg to 500 mg/kg TPH. Following approval of activities outlined in this Addendum, NOVA will treat the remaining soil in the on-site treatment area until confirmation sampling indicates that TPH concentrations are below 500 mg/kg. A total of 80 of 115 treatment soil samples indicated TPH concentrations less than 500 mg/kg. Soil in the treatment cell will be aerated until natural biodegradation has reduced the regulated constituent concentrations below regulatory cleanup concentrations. Following attainment of site cleanup goals, backfilling activities utilizing the treated soil with the lowest TPH concentrations will be conducted across the bottom of the excavation. As sampling results indicate additional soil in the treatment cell has achieved meet site cleanup goals, it will be utilized as backfill material. Seeding and watering of the backfilled area will conclude site soil remediation.

4.0 QA/QC PROCEDURES

4.1 Soil Sampling

Samples of subsurface soils were obtained during installation of the monitor wells utilizing a split-spoon sampling tool. Representative soil samples were divided into two separate portions using clean, disposable gloves and clean sampling tools. One portion of the soil sample was placed in a disposable zip-lock baggie. The baggie was labeled and sealed for headspace analysis using a photoionization detector (PID) calibrated to a 100-ppm isobutylene standard. Each sample was allowed to volatilize for approximately thirty minutes in the sunlight at ambient temperature prior to field screening activities.

The other portion of the soil sample was placed in a sterile glass container equipped with a Teflon-lined lid furnished by the laboratory. The container was filled to capacity to limit the amount of headspace present. Each container was labeled and placed on ice in an insulated cooler. Upon selection of samples for laboratory analysis, the cooler was sealed for shipment to the laboratory. Proper chain-of-custody documentation was maintained throughout the sampling and shipping process.

Soil samples were delivered to Environmental Lab of Texas, in Odessa, Texas and analyzed within fourteen days following the collection date for BTEX and TPH analyses using the methods described below:

- BTEX concentrations in accordance with EPA SW-846 Method 8021B, 5030; and
- TPH concentrations in accordance with EPA SW-846 Method 8015M GRO/DRO.

4.2 Groundwater Sampling

During the groundwater monitoring events, the monitor wells were purged of approximately three 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 a disposable Teflon sampler. 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 Lobo Trucking, Hobbs, New Mexico or Vista Trucking of Eunice, New Mexico utilizing a licensed disposal facility (NMOCD AO SWD-730). Groundwater samples were delivered to Environmental Lab of Texas in Odessa, Texas, Trace Analysis, Inc. of Lubbock, Texas or AnalySys Inc. in Austin, Texas for BTEX analysis using the method described below. All samples were analyzed within approved holding times following the collection date:

- BTEX concentrations in accordance with EPA SW-846 Method 8021B/5030 or EPA SW-846 Method 8260b.

4.3 Decontamination Of Equipment

Prior to use, the sampling equipment was cleaned with Liqui-Nox® detergent and rinsed with distilled water.

4.4 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-of-custody form. These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

5.0 LIMITATIONS

NOVA has prepared this Addendum to Additional Subsurface Investigation Report and Modified Stage 2 Abatement Plan to the best of its ability. No other warranty, expressed or implied, is made or intended.

NOVA has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. NOVA has prepared this report in a professional manner,

using the degree of skill and care exercised by similar environmental consultants. NOVA 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 as described at the time of this report.

This report has been prepared for the benefit of Plains Marketing, LP (Plains). The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of NOVA and/or Plains.

6.0 REFERENCES

Guidelines for Remediation of Leaks, Spills and Releases; August 1993 (NMOCD, 1993);

Title 19; New Mexico Administrative Code 15.A.19;

ASTME E-1739 "Standard Guide for Risk-Based Corrective Action Applied at Petroleum Release Sites;

Ground-Water Report 6, Geology and Ground-Water Conditions in Southern Lea County, New Mexico; Alexander Nicholson, Jr. and Alfred Clebsch Jr.; United States Geological Survey, New Mexico State Bureau of Mines and Mineral Resources, 1961; and

Remediation of Petroleum Contaminated Soils; Eve-Riser-Roberts, Lewis Publishers, CRC Press, 1998.

7.0 DISTRIBUTION

Copy 1 & 2: William C. Olson and Ed Martin
New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Copy 3 to: Chris Williams
New Mexico Oil Conservation Division (District 1)
1625 French Drive
Hobbs, New Mexico 88240

Copy 4 to: Jeff Dann
Plains Marketing, LP
P.O. Box 4648
Houston, Texas 77210-4648

Copy 5 to: Jimmy Bryant
Plains Marketing, LP
5805 Hwy 80 East
Midland, Texas 79701

Copy 6 to: NOVA Safety and Environmental
2057 Commerce Street
Midland, Texas 79703

COPY #: _____

Figures

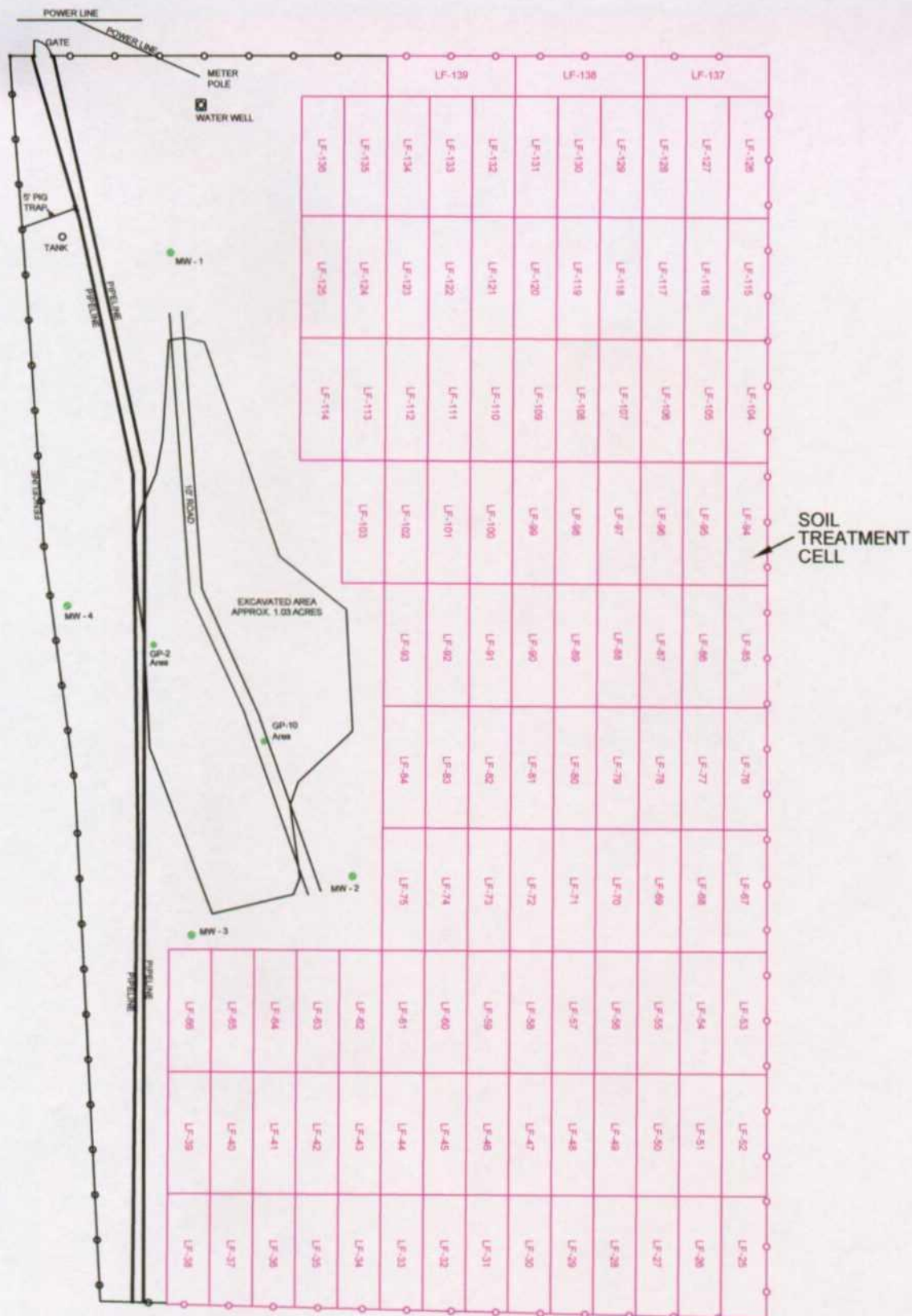


Figure 1
Site Location Map
Plains Marketing, L.P.
TNM 97-16
Leas Co. NM

NOVA Safety and Environmental

NE 1/4 NW 1/4 Sec 12 T44S R27E	32° 14' 21.3" N 103° 27' 27.7" W
Scale: 1" = 80'	Prep By: CE
	Checked By: TUC
	July 27, 2004





LEGEND:
 ● MONITOR WELL
 □ TREATMENT CELL

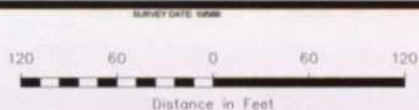


Figure 2
 Site Map
 Plains Marketing, L.P.
 TNM 97-16
 Jal, NM



NOVA Safety and Environmental

Scale: 1" = 120' Prep By: CG Checked By: TKC
 July 27, 2004

Tables

TABLE 1
CONCENTRATIONS OF TPH AND BTEX IN SOIL

TNM 97-16
PLAINS MARKETING, L.P.
MONUMENT, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	Methods: EPA SW 846-8021B, 5030					Method: EPA SW 846-801SM	
		BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	m,p-XYLENE (mg/kg)	o-XYLENE (mg/kg)	GRO (mg/kg)	DRO (mg/kg)
Stockpile Sample 1	11/26/01	<0.025	0.027	<0.025	<0.025	<0.025	<10	502
Stockpile Sample 2	11/26/01	<0.025	<0.025	<0.025	<0.025	<0.025	<10	752
Stockpile Sample 3	11/29/01	<0.025	0.025	<0.025	<0.025	<0.025	<10	1400
Stockpile Sample 4	11/29/01	<0.025	0.034	<0.025	<0.025	<0.025	<10	1320
Stockpile Sample 5	11/30/01	<0.025	0.037	<0.025	<0.025	<0.025	<10	1150
Stockpile Sample 6	11/30/01	<0.025	<0.025	<0.025	<0.025	<0.025	<10	1360
Pit Sample SE #1	12/01/01	<0.025	0.054	<0.025	<0.025	<0.025	<10	153
Pit Sample SW #2	12/01/01	<0.025	<0.025	<0.025	<0.025	<0.025	<10	48
Pit Sample NW #3	12/01/01	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10
Pit Sample NE #4	12/01/01	<0.025	<0.025	<0.025	<0.025	<0.025	<10	42
Pit - Far N. Point	12/01/01	<0.025	<0.025	<0.025	<0.025	<0.025	<10	62
NE Quad LF #1	12/01/01	<0.025	<0.025	<0.025	<0.025	<0.025	<10	451
SE Quad LF #2	12/01/01	<0.025	<0.025	<0.025	<0.025	<0.025	<10	388
SW Quad LF #3	12/01/01	<0.025	<0.025	<0.025	<0.025	<0.025	<10	259
Excavation Wall South	06/03/02	<0.025	<0.025	<0.025	<0.025	<0.025	44.4	202
Excavation Wall South	09/15/03	0.033	0.326	0.872	1.05	0.667	<10.0	58.5
Excavation Wall North	06/03/02	<0.025	<0.025	<0.025	<0.025	<0.025	<10	<10
Excavation Wall East	06/03/02	<0.025	<0.025	<0.025	<0.025	<0.025	18.4	144
Excavation Wall West	06/03/02	<0.025	<0.025	<0.025	<0.025	<0.025	<10	34
Excavation Bottom South	06/03/02	<0.025	<0.025	<0.025	<0.025	<0.025	<10	60.6
Excavation Bottom Middle	06/03/02	<0.025	<0.025	<0.025	<0.025	<0.025	10.3	88
Excavation Bottom North	06/03/02	<0.025	<0.025	<0.025	<0.025	<0.025	10.5	66.8
Middle East Wall Exc.	04/17/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	106

TABLE 1
CONCENTRATIONS OF TPH AND BTEX IN SOIL

TNM 97-16
PLAINS MARKETING, L.P.
MONUMENT, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	Methods: EPA SW 846-8021B, 5030					Method: EPA SW 846-8015M	
		BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	m,p-XYLENE (mg/kg)	o-XYLENE (mg/kg)	GRO (mg/kg)	DRO (mg/kg)
Middle East Wall Exc.	09/15/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0
SE Wall Exc.	04/17/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	308
SE Wall Exc.	09/15/03	<0.025	0.187	0.557	1.07	0.627	<10.0	<10.0
NE Wall Exc.	04/17/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	66.9
H.A GP-10 Area 2'	09/04/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	34.7
H.A GP-10 Area 4'	09/04/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0
H.A GP-10 Area 6'	09/04/03	<0.025	<0.025	<0.025	0.036	<0.025	12.6	153
H.A GP-10 Area 8'	09/04/03	<0.025	<0.025	<0.025	0.037	<0.025	15.7	177
H.A GP-2 Area 2'	09/04/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	132
H.A GP-2 Area 4'	09/04/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	51.0
H.A GP-2 Area 6'	09/04/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	<10.0
H.A GP-2 Area 8'	09/04/03	<0.025	<0.025	<0.025	<0.025	<0.025	10.6	112
H.A GP-2 Area 10'	09/04/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	61.2
LF-25	09/15/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	20.7
LF-26	09/15/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	32.4
LF-27	09/15/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	24.2
LF-28	09/15/03	<0.025	<0.025	0.028	0.047	<0.025	<10.0	34.3
LF-29	09/15/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	39.1
LF-30	09/15/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	12.5
LF-31	09/15/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	17.3
LF-32	09/15/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	47.7
LF-33	09/15/03	<0.025	<0.025	<0.025	0.029	<0.025	<10.0	43.9
LF-34	09/15/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	50.9
LF-35	09/15/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	54.1
LF-36	09/15/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	68.5

TABLE 1
CONCENTRATIONS OF TPH AND BTEX IN SOIL

TNM 97-16
PLAINS MARKETING, L.P.
MONUMENT, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	Methods: EPA SW 846-8021B, 5030					Method: EPA SW 846-8015M	
		BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	m,p-XYLENE (mg/kg)	o-XYLENE (mg/kg)	GRO (mg/kg)	DRO (mg/kg)
LF-37	09/15/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	75.8
LF-38	09/15/03	<0.025	<0.025	<0.025	0.034	<0.025	<10.0	96.8
LF-39	09/16/03	<0.025	<0.025	<0.025	0.031	<0.025	<10.0	46.2
LF-40	09/16/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	24.4
LF-41	09/16/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	45.7
LF-42	09/16/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	15.5
LF-43	09/16/03	<0.025	<0.025	<0.025	0.042	<0.025	<10.0	73.5
LF-44	09/16/03						<10.0	140
LF-45	09/16/03						<10.0	174
LF-46	09/16/03						<10.0	108
LF-47	09/16/03						<10.0	233
LF-48	09/16/03	<0.025	<0.025	<0.025	0.026	<0.025	<10.0	74.4
LF-49	09/16/03	<0.025	<0.025	<0.025	0.029	<0.025	<10.0	77.0
LF-50	09/16/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	82.2
LF-51	09/16/03	<0.025	<0.025	<0.025	0.026	<0.025	<10.0	89.1
LF-52	09/16/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	60.2
LF-53	09/16/03						<10.0	196
LF-54	09/16/03						<10.0	181
LF-55	09/16/03						<10.0	113
LF-56	09/16/03						<10.0	146
LF-57	09/16/03						<10.0	180
LF-58	09/16/03						<10.0	288
LF-59	09/16/03						<10.0	167
LF-60	09/16/03	<0.025	<0.025	<0.025	38.8	<0.025	<10.0	99.4
LF-61	09/16/03						153	1500

TABLE 1
CONCENTRATIONS OF TPH AND BTEX IN SOIL

TNM 97-16
PLAINS MARKETING, L.P.
MONUMENT, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	Methods: EPA SW 846-8021B, 5030				Method: EPA SW 846-801SM	
		BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	m,p-XYLENE (mg/kg)	o-XYLENE (mg/kg)	
LF-62	09/16/03						GRO (mg/kg)
LF-63	09/16/03						12.5 415
LF-64	09/16/03						15.9 396
LF-65	09/16/03						17.8 686
LF-66	09/16/03						<10.0 112
LF-67	09/16/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0 67.7
LF-68	09/16/03						<10.0 242
LF-69	09/16/03						<10.0 188
LF-70	09/16/03						<10.0 141
LF-71	09/16/03						<10.0 115
LF-72	09/16/03						<10.0 199
LF-73	09/16/03						<10.0 332
LF-74	09/16/03						<10.0 348
LF-75	09/16/03						<10.0 320
LF-76	09/16/03						<10.0 466
LF-77	09/16/03						<10.0 248
LF-78	09/16/03						<10.0 235
LF-79	09/16/03						<10.0 164
LF-80	09/16/03						<10.0 160
LF-81	09/16/03						<10.0 203
LF-82	09/16/03						<10.0 121
LF-83	09/16/03						33.2 158
LF-84	09/16/03						<10.0 231
LF-85	09/17/03						<10.0 324
LF-86	09/17/03						<10.0 213
							<10.0 192

TABLE 1
CONCENTRATIONS OF TPH AND BTEX IN SOIL

TNM 97-16
PLAINS MARKETING, L.P.
MONUMENT, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	Methods: EPA SW 846-8021B, 5030					Method: EPA SW 846-8015M	
		BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	m,p-XYLENE (mg/kg)	o-XYLENE (mg/kg)	GRO (mg/kg)	DRO (mg/kg)
LF-87	09/17/03						<10.0	258
LF-88	09/17/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	74.3
LF-89	09/17/03						<10.0	152
LF-90	09/17/03						<10.0	150
LF-91	09/17/03						<10.0	129
LF-92	09/17/03	<0.025	<0.025	<0.025	0.045	<0.025	<10.0	70.0
LF-93	09/17/03						<10.0	527
LF-94	09/17/03						<10.0	341
LF-95	09/17/03						<10.0	274
LF-96	09/17/03	<0.025	<0.025	<0.025	<0.025	<0.025	<10.0	65.6
LF-97	09/17/03						<10.0	287
LF-98	09/17/03						<10.0	246
LF-99	09/17/03						<10.0	224
LF-100	09/17/03						<10.0	839
LF-101	09/17/03						<10.0	173
LF-102	09/17/03						10.2	1340
LF-103	09/17/03						<10.0	543
LF-104	09/17/03						<10.0	428
LF-105	09/17/03						<10.0	385
LF-106	09/17/03						<10.0	190
LF-107	09/17/03						<10.0	414
LF-108	09/17/03						<10.0	297
LF-109	09/17/03						<10.0	615
LF-110	09/17/03						<10.0	459
LF-111	09/17/03						11.7	1100

TABLE 1
CONCENTRATIONS OF TPH AND BTEX IN SOIL

TNM 97-16
PLAINS MARKETING, L.P.
MONUMENT, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	Methods: EPA SW 846-8021B, 5030				Method: EPA SW 846-8015M	
		BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	m,p-XYLENE (mg/kg)	o-XYLENE (mg/kg)	
LF-112	09/17/03						GRO (mg/kg)
LF-113	09/17/03						DRO (mg/kg)
LF-114	09/17/03						
LF-115	09/17/03						
LF-116	09/17/03						
LF-117	09/17/03						
LF-118	09/17/03						
LF-119	09/17/03						
LF-120	09/17/03						
LF-121	09/17/03						
LF-122	09/17/03						
LF-123	09/17/03						
LF-124	09/17/03						
LF-125	09/17/03						
LF-126	09/17/03						
LF-127	09/17/03						
LF-128	09/17/03						
LF-129	09/17/03						
LF-130	09/17/03						
LF-131	09/17/03						
LF-132	09/17/03						
LF-133	09/17/03						
LF-134	09/17/03						
LF-135	09/17/03						
LF-136	09/17/03						

TABLE 1
CONCENTRATIONS OF TPH AND BTEX IN SOIL

TNM 97-16
PLAINS MARKETING, L.P.
MONUMENT, NEW MEXICO

SAMPLE LOCATION	SAMPLE DATE	Methods: EPA SW 846-8021B, 5030				Method: EPA SW 846-8015M	
		BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	m,p-XYLENE (mg/kg)	o-XYLENE (mg/kg)	
LF-137	09/17/03						GRO (mg/kg)
LF-138	09/17/03						17.5 2140
LF-139	09/17/03						<10.0 1070
							12.1 1010

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. BOX 4845
MIDLAND, TEXAS 79704
FAX: 505-392-3760

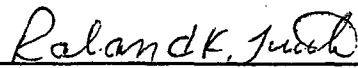
Sample Type: Water
Sample Condition: Intact/Iced/HCl
Project #: EOT1015C
Project Name: TNM 97-16
Project Location: Lea County, N.M.

Sampling Date: 01/13/00
Receiving Date: 01/14/00
Analysis Date: 01/18 & 01/19/00

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
22845	MW-1	<0.001	<0.001	<0.001	<0.001	<0.001
22846	MW-2	<0.001	<0.001	<0.001	<0.001	<0.001
22847	MW-3	<0.001	<0.001	<0.001	<0.001	<0.001
22848	MW-4	<0.001	<0.001	<0.001	<0.001	<0.001

% IA	94	91	89	91	88
% EA	93	90	87	88	87
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: EPA SW 846-8021B,5030


Raland K. Tuttle

1-20-00
Date

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

690 069

Project Manager: Jesse Taxler
Phone #: (915) 664-9166
FAX #: (915) 392-3760

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

Project #:	Project Name:
EOT 1015C	TNMA 97-16

Project Location:	Sampler Signature:
-------------------	--------------------

LEA County, NM

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
22845	mw 1	2	✓	✓		✓				✓		✓	1/13	1045	✓
22846	mw 2	1	✓											1138	
22847	mw 3	1	✓											1120	
22848	mw 4	1	✓	✓							✓		✓	1104	✓

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

REMARKS

Relinquished by: <i>Simon Laro</i>	Date: <i>1/14/00</i>	Times: <i>1430</i>	Received by: <i>g r r m n e y</i>
Relinquished by:	Date:	Times:	Received by:
Relinquished by:	Date:	Times:	Received by Laboratory:

KS
MAY 18 1892
V. Dutton

Invoice: EN1194 Frost 101. Two

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

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

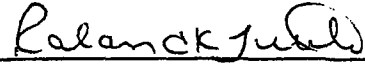
SampleType: Water
Sample Condition: Intact/ Iced/HCl
Project #: EOT 1015C
Project Name: TNM 97-16
Project Location: Lea County, N.M.

Sampling Date: 04/05/00
Receiving Date: 04/06/00
Analysis Date: 4/10/00

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
24641	MW-1	<0.001	<0.001	<0.001	<0.001	<0.001
24642	MW-2	<0.001	<0.001	<0.001	0.002	<0.001
24643	MW-3	<0.001	<0.001	<0.001	0.002	<0.001
24644	MW-4	0.001	0.001	<0.001	0.001	<0.001

% IA	91	90	92	95	88
% EA	94	92	94	97	90
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: SW 846-8021B,5030


Raland K. Tuttle

4-12-00
Date

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

DOC # 117

Phone #: (915) 664-9165
FAX #: (505) 392-3760

Project Manager: 2007401 / 2559

Company Name & Address: *ETGI*
P.O. Box 4345 Piedmont TX 78204

Project #:	Est 1015 C
Project Name:	TN 97-16

Project Location: LEA. COUNTY Wm

Sampler Signature: *Simon Lasso*

[illegible]

REMARKS
MAIL RESULTS: K. DUTT ON

FOFF 1015m

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.

ATTN: BETH ALDRICH

P.O. BOX 4845

MIDLAND, TEXAS 79704

FAX: 915-520-4310

FAX: 505-397-4701

SampleType: Water

Sample Condition: Intact/ Iced/ HCl/ 0 deg. C

Project #: EOT 2021C

Project Name: TNM 97-16

Project Location: Lea County, N.M.

Sampling Date: 09/05/00

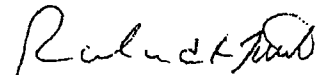
Receiving Date: 09/08/00

Analysis Date: 09/13/00

ELT#	FIELD CODE/ SAMPLE DATE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L	TOTAL BTEX mg/L
30542	MW 1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
30543	MW 2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
30544	MW 3	0.003	<0.001	<0.001	<0.001	<0.001	0.003
30545	MW 4	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
30546	EB 1	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

% IA	98	99	101	105	97
% EA	96	100	98	102	97
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: SW 846-8021B,5030


Raland K. Tuttle

9-15-00
Date

Environmental Lab of Texas, Inc. 12600 West L-20 East Odessa, Texas 79763 (915) 561-1800 FAX (915) 561-1713

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

COC # 222

Project Manager:

BETH ADKINS

Phone #: (505) 397-4882

FAX #: (505) 397-4781

ANALYSIS REQUEST

Company Name & Address:

ETGI 2540 W MARSHALL HOBBES, NM 88240

Project #:

EOJ 2021C

Project Name:

TNM 97-16

Project Location:

Lea County NM

Sampler Signature:

[Signature]

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX					PRESERVATIVE METHOD					SAMPLING DATE	TIME
				WATER	SOIL	AIR	SLUDGE	OTHER	HCL	HNO3	ICE	NONE	OTHER		

BTEX 8020

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

30542	MW 1	2	V	X					X	X				9-5	1115	X
30543	MW 2														1021	
30544	MW 3														1042	
30545	MW 4														1100	
30546	EB 1	X	V	V											1130	X

REMARKS

FAX RESULTS: HOBBES OFFICE
MAIL RESULTS: EOJ
INVOICE: EOJ 0°C

Relinquished by:

[Signature]

Date:

9-8-98

Time:

1600

Received by:

[Signature]

Relinquished by:

[Signature]

Date:

9-8-00

Time:

1740

Received by:

[Signature]

Relinquished by:

[Signature]

Date:

9-8-00

Time:

1740

Received by:

[Signature]

Received by Laboratory:

[Signature]

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

ENVIRONMENTAL TECHNOLOGY GROUP, INC.
ATTN: BETH ALDRICH
2540 W. MARLAND
HOBBS, N.M. 88242
FAX: 505-397-4701
FAX: 915-520-4310

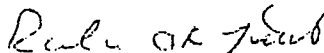
Sample Type: Water
Sample Condition: Intact/ Iced/ HCl/ -3 deg. C
Project #: EOT 2021C
Project Name: TNM 97-16
Project Location: Lea County NM

Sampling Date: 11/21/00
Receiving Date: 11/22/00
Analysis Date: 11/24/00

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
34220	MW 1	<0.001	<0.001	<0.001	<0.001	<0.001
34221	MW 2	<0.001	<0.001	<0.001	<0.001	<0.001
34222	MW 3	0.012	<0.001	<0.001	<0.001	0.001
34223	MW 4	<0.001	<0.001	<0.001	<0.001	<0.001
34224	EB 1	<0.001	<0.001	<0.001	<0.001	<0.001

%IA	86	88	91	96	89
%EA	91	100	102	108	97
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: EPA SW 846-8021B, 5030


Ralene K. Tuttle

11-22-00
Date

COC # 177

Project Manager: **BETH ALDERICH**
 Phone #: (505) 397-4882
 FAX #: (505) 397-4781

Company Name & Address: **ETAZ**
2540 W MARLAND HOBBS NM

Project #: **EOT 2021C**
 Project Name: **TNM 97-16**

Project Location: **LEN COUNTY NM**
 Supplier 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
	22100 1	2	✓	✓					✓		✓			11-21-11	147
	22100 2	1	✓											11-25-11	147
	22100 3	1	✓											11-08-11	147
	22100 4	1	✓								✓			11-25-11	147
	EB1	1	✓	✓							✓			11-21-11	147

Requisitioned by: *[Signature]* Date: 11-22-00 Time: 0800
 Requisitioned by: *[Signature]* Date: 11-22-00 Time: 1125
 Requisitioned by: *[Signature]* Date: 11-22-00 Time: 1147

Received by: *[Signature]*
 Received by: *[Signature]*
 Received by Laboratory: *[Signature]*

REMARKS: **INVOICE: EOT**
FAX RESULTS: HOBBS OFFICE
MAN RESULTS: EOT

-30

ANALYSIS REQUEST

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

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: 505-397-4701

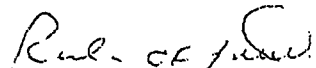
Sample Type: Water
Sample Condition: Intact/ Iced/ HCl/ -2 deg. C
Project #: EOT 2021C
Project Name: TNM 97-16
Project Location: Lea County

Sampling Date: 01/25/01
Receiving Date: 01/29/01
Analysis Date: 01/31/01

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
36932	MW 1	<0.001	<0.001	<0.001	<0.001	<0.001
36933	MW 2	<0.001	<0.001	<0.001	<0.001	<0.001
36934	MW 3	0.029	<0.001	<0.001	<0.001	0.001
36935	MW 4	<0.001	<0.001	<0.001	<0.001	<0.001
36936	EB 1	<0.001	<0.001	<0.001	<0.001	<0.001

%IA	90	90	95	97	98
%EA	94	94	98	96	99
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: EPA SW 846-8021B, 5030


Randal K. Tuttle

1-31-01
Date

ANALYSIS REQUEST
(Circle or Specify Method No.)

(Circle or Specify Method No.)

Project Manager: Lee Taylor

EOFF Leak Number

Project Name: TKM 97-16

EO 7, 20210

15M COUNTY

Preservation

[illegible]

Relinquished by: _____ Date: _____

Received by:

Date:

Time:

Relinquished by:

Date: _____

Time

Received at Lab by

बुद्धादि;

the:

REMARKS: -20C
-20C Results: 140000
Final Results: 6011
Invoice: 6011

ENVIRONMENTAL LAB OF , INC.

FILE

"Don't Treat Your Soil Like Dirt!"

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

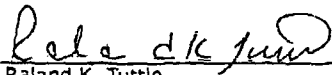
Sample Type: Water
Sample Condition: Intact/ Iced/ HCl/ -2 deg. C
Project #: EOT 2021C
Project Name: TNM 97-16
Project Location: Jal, N.M.

Sampling Date: 04/03/01
Receiving Date: 04/10/01
Analysis Date: 04/10/01

ELT#	FIELD CODE	BENZENE mg/L	TOLUENE mg/L	ETHYLBENZENE mg/L	m,p-XYLENE mg/L	o-XYLENE mg/L
39024	MW-1	<0.001	<0.001	<0.001	<0.001	<0.001
39025	MW-2	<0.001	<0.001	<0.001	<0.001	<0.001
39026	MW-3	0.010	<0.001	<0.001	<0.001	<0.001
39027	MW-4	<0.001	<0.001	<0.001	<0.001	<0.001
39028	EB-1	<0.001	<0.001	<0.001	<0.001	<0.001

%IA	86	89	92	90	91
%EA	88	93	95	94	95
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: EPA SW 846-8021B, 5030


Raland K. Tuttle

4-11-01
Date

४ • ६

TRACE ANALYSIS, 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: July 2, 2001

Order ID Number: A01062516

Project Number: EOT 2021C
Project Name: TNM 97-16
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
173994	South Windmill	Water	6/21/01	13:00	6/23/01

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 4 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: 173994 - South Windmill

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC12319 Date Analyzed: 6/28/01
Analyst: CG Preparation Method: E 5030B Prep Batch: PB10540 Date Prepared: 6/28/01

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		0.452	mg/L	1	0.10	90	72 - 128
4-BFB		0.354	mg/L	1	0.10	70	72 - 128

Quality Control Report Method Blank

Method Blank QCBatch: QC12319

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		0.0963	mg/L	1	0.10	96	72 - 128
4-BFB		0.0766	mg/L	1	0.10	76	72 - 128

Quality Control Report Lab Control Spikes and Duplicate Spikes

Laboratory Control Spikes QCBatch: QC12319

Param	LCS Result	LCSD Result	Units	Dil.	Spike Amount Added	Matrix Result	% Rec	RPD	% Rec Limit	RPD Limit
MTBE	0.0961	0.0977	mg/L	1	0.10	<0.001	96	1	80 - 120	20
Benzene	0.0982	0.099	mg/L	1	0.10	<0.001	98	0	80 - 120	20
Toluene	0.0981	0.099	mg/L	1	0.10	<0.001	98	0	80 - 120	20
Ethylbenzene	0.0983	0.0999	mg/L	1	0.10	<0.001	98	1	80 - 120	20
M,P,O-Xylene	0.289	0.292	mg/L	1	0.30	<0.001	96	1	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	0.0947	0.0962	mg/L	1	0.10	94	96	72 - 128
4-BFB	0.0944	0.0953	mg/L	1	0.10	94	95	72 - 128

Quality Control Report Continuing Calibration Verification Standards

CCV (1) QCBatch: QC12319

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0909	90	85 - 115	6/28/01
Benzene		mg/L	0.10	0.0969	96	85 - 115	6/28/01

Continued ...

... Continued

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Toluene		mg/L	0.10	0.0971	97	85 - 115	6/28/01
Ethylbenzene		mg/L	0.10	0.0973	97	85 - 115	6/28/01
M,P,O-Xylene		mg/L	0.30	0.284	94	85 - 115	6/28/01

CCV (2) QCBatch: QC12319

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0962	96	85 - 115	6/28/01
Benzene		mg/L	0.10	0.0957	95	85 - 115	6/28/01
Toluene		mg/L	0.10	0.0958	95	85 - 115	6/28/01
Ethylbenzene		mg/L	0.10	0.0958	95	85 - 115	6/28/01
M,P,O-Xylene		mg/L	0.30	0.2825	94	85 - 115	6/28/01

ICV (1) QCBatch: QC12319

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
MTBE		mg/L	0.10	0.0941	94	85 - 115	6/28/01
Benzene		mg/L	0.10	0.0958	95	85 - 115	6/28/01
Toluene		mg/L	0.10	0.0957	95	85 - 115	6/28/01
Ethylbenzene		mg/L	0.10	0.0962	96	85 - 115	6/28/01
M,P,O-Xylene		mg/L	0.30	0.283	94	85 - 115	6/28/01

FILE

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9
155 McCutcheon, Suite H

Lubbock, Texas 79424
El Paso, Texas 79932

800•378•1296
888•588•3443

806•794•1296
915•585•3443

FAX 806•794•1298
FAX 915•585•4944

E-Mail: lab@traceanalysis.com

Analytical and Quality Control Report

Ken Dutton
ETGI
2540 W. Marland
Hobbs, NM

Report Date: July 10, 2001

Order ID Number: A01070213

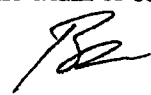
Project Number: EOT 2021C
Project Name: TNM 97-16
Project Location: Lea County NM

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
174599	MW-1	Water	6/28/01	12:30	6/30/01
174600	MW-2	Water	6/28/01	13:15	6/30/01
174601	MW-3	Water	6/28/01	13:40	6/30/01
174602	MW-4	Water	6/28/01	12:50	6/30/01
174603	EB-1	Water	6/28/01	14:00	6/30/01

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

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



Dr. Blair Leftwich, Director

Analytical Report

Sample: 174599 - MW-1

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC12479 Date Analyzed: 7/3/01
Analyst: CG Preparation Method: E 5030B Prep Batch: PB10676 Date Prepared: 7/3/01

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		0.083	mg/L	1	0.10	83	72 - 128
4-BFB		0.0851	mg/L	1	0.10	85	72 - 128

Sample: 174600 - MW-2

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC12479 Date Analyzed: 7/3/01
Analyst: CG Preparation Method: E 5030B Prep Batch: PB10676 Date Prepared: 7/3/01

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		0.0915	mg/L	1	0.10	91	72 - 128
4-BFB		0.0934	mg/L	1	0.10	93	72 - 128

Sample: 174601 - MW-3

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC12479 Date Analyzed: 7/3/01
Analyst: CG Preparation Method: E 5030B Prep Batch: PB10676 Date Prepared: 7/3/01

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

Continued ...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
TFT		0.0908	mg/L	1	0.10	90	72 - 128
4-BFB		0.0933	mg/L	1	0.10	93	72 - 128

Sample: 174602 - MW-4

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC12479 Date Analyzed: 7/3/01
Analyst: CG Preparation Method: E 5030B Prep Batch: PB10676 Date Prepared: 7/3/01

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		0.0918	mg/L	1	0.10	91	72 - 128
4-BFB		0.0944	mg/L	1	0.10	94	72 - 128

Sample: 174603 - EB-1

Analysis: BTEX Analytical Method: S 8021B QC Batch: QC12479 Date Analyzed: 7/3/01
Analyst: CG Preparation Method: E 5030B Prep Batch: PB10676 Date Prepared: 7/3/01

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		0.0898	mg/L	1	0.10	89	72 - 128
4-BFB		0.0911	mg/L	1	0.10	91	72 - 128

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) 585-3443

Company Name: ETGI Phone #: (505) 397-4882
Address: 2548 W. PARKWAY (Street, City, Zip) ALBUQUERQUE NM 87248
Contact Person: WEN DUTTON Fax #: (505) 397-4781
Voice to: ETGI
Project Name: TNM 97-16
Project #: LOT 2021C
Project Location: LEA County, NM
Sampler Signature: [Signature]

LAB # LAB USE ONLY	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	DATE	TIME
174599	MW 1	2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6-28/230	1315
600	MW 2	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1315	1315
601	MW 3	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1315	1315
602	MW 4	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1250	1400
603	EB-1	1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	1400	1400

Relinquished by: [Signature] Date: 6-29-01 Time: 1300
Received by: [Signature] Date: 6-29-01 Time: 1400
Relinquished by: [Signature] Date: 6-29-01 Time: 1400
Received by: [Signature] Date: 6-29-01 Time: 1400

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # A0670213

ANALYSIS REQUEST

(Circle or Specify Method No.)

MTBE 8021B/602	Y	↓
BTEX 8021B/602	Y	↓
TPH 418.1/TX1005		
PAH 8270C		
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7		
TCLP Metals Ag As Ba Cd Cr Pb Se Hg		
TCLP Volatiles		
TCLP Semi Volatiles		
TCLP Pesticides		
RCI		
GC/MS Vol. 8260B/624		
GC/MS Semi. Vol. 8270C/625		
PCB's 8082/608		
Pesticides 8081A/608		
BOD, TSS, pH		
TD5		
1470M		
Aluminum		
Turn Around Time if different from standard		
Hold		

REMARKS: Sediment in vial

LAB USE ONLY

Intact: Y N Headspace: Y N Temp: 4 ° Log-in Review: MA

Check if Special Reporting Limits Are Needed ☐

Order # Sh 11 907-1029-3133

CHAIN-OF-CUSTODY

Send Reports To:

Company Name ETGI

Address 2540 W. MARLAND

City HOBBS State NM Zip 88240

ATTN: KEVIN DUTTON

Phone (505) 392-4882 Fax (505) 392-4701

Rush Status (must be confirmed with lab mgr.):

Project Name/PO#: ET 202/C Sampler: Amier Cam

Bill to (if different):

Company Name ETGI

Address

City Wagon State Brown Zip ette

ATTN:

Phone

Fax

ANALYSYS INC.

4221 Freidrich Lane, Suite 190, Austin, TX 78744

Phone: (512) 444-5896

Fax: (512) 447-4766

Analyses Requested (1)

Please attach explanatory information as required

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Water	Waste	Lab I.D. # (Lab only)
MW 1	6-28	1230	2	X		115799
MW 2		1315				115800
MW 3		1340				115801
MW 4		1250				115802
FB-1		1400		✓		115803

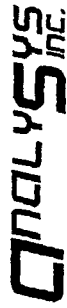
Comments

(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 = 1.0 °C

Sample Relinquished By			Sample Received By		
Name	Affiliation	Date	Name	Affiliation	Date
Amier Cam	ETGI	7-9-01	G. H. H.	ASI	7-10-01
					10:52

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



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: THM 97-16 EOT 2021C
Sample Name: MW 1

Report#/Lab ID#: 119518
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	90	80-120	---
Toluene-d8	8260b	100	88-110	---

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

Exceptions Report:

Report #/Lab ID#: 119518	Matrix: water	Attn: Ken Dutton
Client: Environmental Tech Group		
Project ID: THM 97-16 EOT 2021C		
Sample Name: MW 1		

Sample Temperature/Condition $\leq 6^{\circ}\text{C}$

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Volatile organics-8260b/BTEX	H	Hold time for this parameter exceeded by /impErr* days.
Volatile organics-8260b/BTEX	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Volatile organics-8260b/BTEX	P	

Notes:



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

Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Marland
Hobbs

Nm 88240

Phone: 505 397-4882

FAX: 505 397-4701

Report#/Lab ID#: 119519 **Report Date:** 09/24/01

Project ID: THM 97-16 EOT 2021C

Sample Name: MW 2

Sample Matrix: water

Date Received: 09/21/2001 **Time:** 13:35

Date Sampled: 09/10/2001 **Time:** 14:50

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		09/21/01	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	09/21/01	8260b	---	7.4	87	91.4	109.1
Ethylbenzene	<1	µg/L	1	<1	09/21/01	8260b	---	2.7	94.7	97.4	96.5
m,p-Xylenes	<1	µg/L	1	<1	09/21/01	8260b	---	3.8	95.4	97.8	97.7
o-Xylene	<1	µg/L	1	<1	09/21/01	8260b	---	15.8	95.1	98.3	98.7
Toluene	<1	µg/L	1	<1	09/21/01	8260b	---	6.7	87.3	92.3	109.9

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. © Copyright 2000, AnalySys, Inc., Austin, TX. All rights reserved. No part of this publication may be reproduced or transmitted in any form or by any means without the express written consent of AnalySys, Inc.

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 I = analyte potentially present between the PQL and the MDL. B = Analyte detected in associated method blank(s). S1 = MS and/or MSD recovery exceed advisory limits. S2 = Post digestion spike (PDS) recovery exceeds advisory limit. S3 = MS and/or MSD and PDS recoveries exceed advisory limits. P = Precision higher than advisory limit. M = Matrix interference.



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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: THM 97-16 EOT 2021C
Sample Name: MW 2

Report#/Lab ID#: 119519
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	94.9	80-120	---
Tolbene-d8	8260b	100	88-110	---

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

Exceptions Report:

Report #/Lab ID#: 119519 Matrix: water
Client: Environmental Tech Group Attn: Ken Dutton
Project ID: THM 97-16 EOT 2021C
Sample Name: MW 2

Sample Temperature/Condition $\leq 6^{\circ}\text{C}$

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Volatile organics-8260b/BTEX	H	Hold time for this parameter exceeded by /impEx* days.
Volatile organics-8260b/BTEX	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Volatile organics-8260b/BTEX	P	

Notes:



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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Marland
Hobbs

Nm 88240

Phone: 505 397-4882

FAX: 505 397-4701

Report#/Lab ID#: 119520 **Report Date:** 09/24/01

Project ID: THM 97-16 EOT 2021C

Sample Name: MW 3

Sample Matrix: water

Date Received: 09/21/2001 **Time:** 13:35

Date Sampled: 09/10/2001 **Time:** 15:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		09/21/01	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	09/21/01	8260b	---	7.4	87	91.4	109.1
Ethylbenzene	<1	µg/L	1	<1	09/21/01	8260b	---	2.7	94.7	97.4	96.5
m,p-Xylenes	<1	µg/L	1	<1	09/21/01	8260b	---	3.8	95.4	97.8	97.7
o-Xylene	<1	µg/L	1	<1	09/21/01	8260b	---	15.8	95.1	98.3	98.7
Toluene	<1	µg/L	1	<1	09/21/01	8260b	---	6.7	87.3	92.3	109.9

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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: THM 97-16 EOT 2021C
Sample Name: MW 3

Report#/Lab ID#: 119520
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	92	80-120	---
Toluene-d8	8260b	99.6	88-110	---

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

Exceptions Report:

Report #/Lab ID#: 119520	Matrix: water	Attn: Ken Dutton
Client: Environmental Tech Group		
Project ID: THM 97-16 BOT 2021C		
Sample Name: MW 3		

Sample Temperature/Condition <=6°C

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

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Volatile organics-8260b/BTEX	H	Hold time for this parameter exceeded by /impErr* days.
Volatile organics-8260b/BTEX	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Volatile organics-8260b/BTEX	P	

Notes:



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

Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Marland
Hobbs

Nm 88240

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

Report#/Lab ID#: 119521 Report Date: 09/24/01

Project ID: THM 97-16 EOT 2021C

Sample Name: MW 4

Sample Matrix: water

Date Received: 09/21/2001 Time: 13:35

Date Sampled: 09/10/2001 Time: 14:30

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
Volatiles organics-8260b/BTEX	---		---		09/21/01	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	09/21/01	8260b	---	7.4	87	91.4	109.1
Ethylbenzene	<1	µg/L	1	<1	09/21/01	8260b	---	2.7	94.7	97.4	96.5
m,p-Xylenes	<1	µg/L	1	<1	09/21/01	8260b	---	3.8	95.4	97.8	97.7
o-Xylene	<1	µg/L	1	<1	09/21/01	8260b	---	15.8	95.1	98.3	98.7
Toluene	<1	µg/L	1	<1	09/21/01	8260b	---	6.7	87.3	92.3	109.9

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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: THM 97-16 EOT 2021C
Sample Name: MW 4

Report#/Lab ID#: 119521
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	95	80-120	---
Toluene-d8	8260b	98.8	88-110	---

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

Exceptions Report:

Report #/Lab ID#: 119521	Matrix: water	Attn: Ken Dutton
Client: Environmental Tech Group		
Project ID: THM 97-16 EOT 2021C		
Sample Name: MW 4		

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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☐ Sample received in appropriate container(s). State of sample preservation unknown.
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J flag Discussion

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Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Volatile organics-8260b/BTEX	H	Hold time for this parameter exceeded by /impErr* days.
Volatile organics-8260b/BTEX	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Volatile organics-8260b/BTEX	P	

Notes:



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

Nm 88240

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

Report#/Lab ID#: 119522 Report Date: 09/24/01

Project ID: THM 97-16 EOT 2021C

Sample Name: EB 1

Sample Matrix: water

Date Received: 09/21/2001 Time: 13:35

Date Sampled: 09/10/2001 Time: 16:10

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatle organics-8260b/BTEX	---		---		09/21/01	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	09/21/01	8260b	---	7.4	87	91.4	109.1
Ethylbenzene	<1	µg/L	1	<1	09/21/01	8260b	---	2.7	94.7	97.4	96.5
m,p-Xylenes	<1	µg/L	1	<1	09/21/01	8260b	---	3.8	95.4	97.8	97.7
o-Xylene	<1	µg/L	1	<1	09/21/01	8260b	---	15.8	95.1	98.3	98.7
Toluene	<1	µg/L	1	<1	09/21/01	8260b	---	6.7	87.3	92.3	109.9

QUALITY ASSURANCE DATA¹

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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.



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: THM 97-16 EOT 2021C
Sample Name: EB 1

Report#/Lab ID#: 119522
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	87.4	80-120	---
Toluene-d8	8260b	103	88-110	---

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

Exceptions Report:

Report #/Lab ID#: 119522	Matrix: water	Attn: Ken Dutton
Client: Environmental Tech Group		
Project ID: THM 97-16 BOT 2021C		
Sample Name: EB 1		

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Volatile organics-8260b/BTEX	H	Hold time for this parameter exceeded by /impErr* days.
Volatile organics-8260b/BTEX	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Volatile organics-8260b/BTEX	P	

Notes:

Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Marland
Hobbs

Nm 88240

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

Report#/Lab ID#: 119523 **Report Date:** 09/24/01

Project ID: THM 97-16 EOT 2021C

Sample Name: South Windmill

Sample Matrix: water

Date Received: 09/21/2001 **Time:** 13:35

Date Sampled: 09/10/2001 **Time:** 15:32

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		09/21/01	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	09/21/01	8260b	---	7.4	87	91.4	109.1
Ethylbenzene	<1	µg/L	1	<1	09/21/01	8260b	---	2.7	94.7	97.4	96.5
m,p-Xylenes	<1	µg/L	1	<1	09/21/01	8260b	---	3.8	95.4	97.8	97.7
o-Xylene	<1	µg/L	1	<1	09/21/01	8260b	---	15.8	95.1	98.3	98.7
Toluene	<1	µg/L	1	<1	09/21/01	8260b	---	6.7	87.3	92.3	109.9

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: THM 97-16 EOT 2021C
Sample Name: South Windmill

Report#/Lab ID#: 119523
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	90.1	80-120	---
Toluene-d8	8260b	103	88-110	---

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

Exceptions Report:

Report #/Lab ID#: 119523	Matrix: water	Attn: Ken Dutton
Client: Environmental Tech Group		
Project ID: THM 97-16 EOT 2021C		
Sample Name: South Windmill		

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Volatile organics-8260b/BTEX	H	Hold time for this parameter exceeded by /impEr* days.
Volatile organics-8260b/BTEX	P	The precision of the MS & MSD (or sample and sample duplicate for those analyses where MS/MSD are not run) is outside advisory/acceptance limits.
Volatile organics-8260b/BTEX	P	

Notes:

כולל את:

Bill to (if different):

4221 Freidrich Lane, Suite 190, Austin, TX 78745
(512) 444-5896

Company Name Ex 11

Address

City _____ State _____ Zip _____

ATTN: _____

Phone _____ Fax _____

Project Name/PO#: 7NM 97-16 Sampler: Jeffrey Casar

For 2021C

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soil	Water	Waste	Lab I.D. # (Lab only)
MW 1	9-10-01	1600	2		X		119518
MW 2		1450					119519
MW 3		1515					119520
MW 4		1430					119521
EB 1		1610					119522
SOUTH WINDMILL		1532					119523

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 report lists (MDL/POL). 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 Pollutant list's HSL list as ASI's option. Specific compound lists must be supplied for all GC procedures.

Temp: 1.0°C

Sample Relinquished By			Sample Received By		
Name	Affiliation	Date	Name	Affiliation	Date
<i>Eileen Lewis</i>	ETG-1	9-20-01	<i>E. Lewis</i>	AST	9-20-01
					Time 13:35

_____ Inc. for analytical testing constitutes agreement by buyer/sampler to AnalySys, Inc.'s standard terms.]

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Client: Environmental Tech Group
Attn: Chance Johnson
Address: 4600 West Wall
Midland

Tx 79703

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

Report#/Lab ID#: 121344 **Report Date:** 11/01/01
Project ID: TNM 97-16 EOT 2021C
Sample Name: MW 1
Sample Matrix: water
Date Received: 10/26/2001 **Time:** 10:00
Date Sampled: 10/22/2001 **Time:** 15:50

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		11/01/01	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	11/01/01	8260b	---	7.7	94.2	96.5	100.3
Ethylbenzene	<1	µg/L	1	<1	11/01/01	8260b	---	4.6	99.6	102.2	99.6
m,p-Xylenes	<1	µg/L	1	<1	11/01/01	8260b	---	8.9	91.2	88.6	89.4
o-Xylene	<1	µg/L	1	<1	11/01/01	8260b	---	12.2	105.5	101.2	101.8
Toluene	<1	µg/L	1	<1	11/01/01	8260b	---	1	91.5	98.1	102.9

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Respectfully Submitted,

Richard Laster

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Client: Environmental Tech Group
Attn: Chance Johnson

Project ID: TNM 97-16 EOT 2021C
Sample Name: MW 1

Report#/Lab ID#: 121344
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	85.6	80-120	---
Toluene-d8	8260b	97.9	88-110	---

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



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Client: Environmental Tech Group
Attn: Chance Johnson
Address: 4600 West Wall
Midland

Tx 79703

Phone: 915 522-1139 FAX: 915 520-4310

Report#/Lab ID#: 121345 Report Date: 11/01/01
Project ID: TNM 97-16 EOT 2021C
Sample Name: MW 2
Sample Matrix: water
Date Received: 10/26/2001 Time: 10:00
Date Sampled: 10/22/2001 Time: 15:15

REPORT OF ANALYSIS

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	---	7.7	94.2	96.5	100.3
Ethylbenzene	<1	µg/L	1	<1	11/01/01	8260b	---	4.6	99.6	102.2	99.6
m,p-Xylenes	<1	µg/L	1	<1	11/01/01	8260b	---	8.9	91.2	88.6	89.4
o-Xylene	<1	µg/L	1	<1	11/01/01	8260b	---	12.2	105.5	101.2	101.8
Toluene	<1	µg/L	1	<1	11/01/01	8260b	---	1	91.5	98.1	102.9

QUALITY ASSURANCE DATA¹

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Client: Environmental Tech Group Attn: Chance Johnson	Project ID: TNM 97-16 EOT 2021C Sample Name: MW 2	Report#/Lab ID#: 121345 Sample Matrix: water
--	--	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	101	80-120	---
Toluene-d8	8260b	90.5	88-110	---

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



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Client: Environmental Tech Group
Attn: Chance Johnson
Address: 4600 West Wall
Midland

Tx 79703

Phone: 915 522-1139 FAX: 915 520-4310

Report#/Lab ID#: 121346 Report Date: 11/01/01
Project ID: TNM 97-16 BOT 2021C

Sample Name: MW 3

Sample Matrix: water

Date Received: 10/26/2001 Time: 10:00

Date Sampled: 10/22/2001 Time: 15:35

REPORT OF ANALYSIS

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	---	7.7	94.2	96.5	100.3
Ethylbenzene	<1	µg/L	1	<1	11/01/01	8260b	---	4.6	99.6	102.2	99.6
m,p-Xylenes	<1	µg/L	1	<1	11/01/01	8260b	---	8.9	91.2	88.6	89.4
o-Xylene	<1	µg/L	1	<1	11/01/01	8260b	---	12.2	105.5	101.2	101.8
Toluene	<1	µg/L	1	<1	11/01/01	8260b	---	1	91.5	98.1	102.9

QUALITY ASSURANCE DATA¹

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Client: Environmental Tech Group	Project ID: TNM 97-16 EOT 2021C	Report#/Lab ID#: 121346
Attn: Chance Johnson	Sample Name: MW 3	Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	98.2	80-120	---
Toluene-d8	8260b	90.5	88-110	---

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



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Client: Environmental Tech Group

Attn: Chance Johnson

Address: 4600 West Wall

Midland

Tx 79703

Phone: 915 522-1139

FAX: 915 520-4310

Report#/Lab ID#: 121347 Report Date: 11/01/01

Project ID: TNM 97-16 BOT 2021C

Sample Name: MW 4

Sample Matrix: water

Date Received: 10/26/2001 Time: 10:00

Date Sampled: 10/22/2001 Time: 15:00

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		10/31/01	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	10/31/01	8260b	---	6.7	92	94.1	89.9
Ethylbenzene	<1	µg/L	1	<1	10/31/01	8260b	---	6.7	104.5	108.1	101.1
m,p-Xylenes	<1	µg/L	1	<1	10/31/01	8260b	---	5.9	97.5	102	94.8
o-Xylene	<1	µg/L	1	<1	10/31/01	8260b	---	6.1	105.9	110.6	103.6
Toluene	<1	µg/L	1	<1	10/31/01	8260b	---	7.2	97.3	96.8	95

QUALITY ASSURANCE DATA 1

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Richard Laster

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Client: Environmental Tech Group
Attn: Chance Johnson

Project ID: TNM 97-16 BOT 2021C
Sample Name: MW 4

Report#/Lab ID#: 121347
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	100	80-120	---
Toluene-d8	8260b	106	88-110	---

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



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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Chance Johnson
Address: 4600 West Wall
Midland

Tx 79703

Phone: 915 522-1139 FAX: 915 520-4310

Report#/Lab ID#: 121348 Report Date: 11/01/01
Project ID: TNM 97-16 EOT 2021C
Sample Name: South Windmill
Sample Matrix: water
Date Received: 10/26/2001 Time: 10:00
Date Sampled: 10/22/2001 Time: 15:05

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		10/31/01	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	10/31/01	8260b	---	6.7	92	94.1	89.9
Ethylbenzene	<1	µg/L	1	<1	10/31/01	8260b	---	6.7	104.5	108.1	101.1
m,p-Xylenes	<1	µg/L	1	<1	10/31/01	8260b	---	5.9	97.5	102	94.8
o-Xylene	<1	µg/L	1	<1	10/31/01	8260b	---	6.1	105.9	110.6	103.6
Toluene	<1	µg/L	1	<1	10/31/01	8260b	---	7.2	97.3	96.8	95

QUALITY ASSURANCE DATA¹

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Richard Laster

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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.



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: Chance Johnson

Project ID: TNM 97-16 EOT 2021C
Sample Name: South Windmill

Report#/Lab ID#: 121348
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	103	88-110	---

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



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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Chance Johnson
Address: 4600 West Wall
Midland

Tx 79703

Phone: 915 522-1139 FAX: 915 520-4310

Report#/Lab ID#: 121349 Report Date: 11/01/01
Project ID: TNM 97-16 BOT 2021C
Sample Name: EB 1
Sample Matrix: water
Date Received: 10/26/2001 Time: 10:00
Date Sampled: 10/22/2001 Time: 16:00

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		10/31/01	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	10/31/01	8260b	---	6.7	92	94.1	89.9
Ethylbenzene	<1	µg/L	1	<1	10/31/01	8260b	---	6.7	104.5	108.1	101.1
m,p-Xylenes	<1	µg/L	1	<1	10/31/01	8260b	---	5.9	97.5	102	94.8
o-Xylene	<1	µg/L	1	<1	10/31/01	8260b	---	6.1	105.9	110.6	103.6
Toluene	<1	µg/L	1	<1	10/31/01	8260b	---	7.2	97.3	96.8	95

QUALITY ASSURANCE DATA¹

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Tech Group
Attn: Chance Johnson

Project ID: TNM 97-16 EOT 2021C
Sample Name: EB 1

Report#/Lab ID#: 121349
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	111	80-120	---
Toluene-d8	8260b	102	88-110	---

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

SHY INC.

Bill to (if different):

Company Name E011

Address _____

City _____ State _____ Zip _____

ATTN: _____

Phone _____ Fax _____

0

2022/10/27

[illegible]

Temp 0.0°C

Sample Received By

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

Client: Environmental Tech Group

Attn: Chance Johnson

Address: 4600 West Wall

Midland

Tx 79703

Phone: 915 522-1139

FAX: 915 520-4310

Report#/Lab ID#: 125216 Report Date: 02/06/02

Project ID: TNM 97-16 BOT 2021C

Sample Name: MW 1

Sample Matrix: water

Date Received: 02/01/2002 Time: 10:12

Date Sampled: 01/28/2002 Time: 12:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		02/01/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/01/02	8260b	---	7.9	87.3	93.1	87.9
Ethylbenzene	<1	µg/L	1	<1	02/01/02	8260b	---	0.3	96.9	100.4	100.4
m,p-Xylenes	<1	µg/L	1	<1	02/01/02	8260b	---	1.1	96.4	100	98.2
o-Xylene	<1	µg/L	1	<1	02/01/02	8260b	---	0.2	96.9	101.2	99.6
Toluene	<1	µg/L	1	<1	02/01/02	8260b	---	8.6	94.2	96.9	97.1

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Client: Environmental Tech Group
Attn: Chance Johnson

Project ID: TNM 97-16 EOT 2021C

Sample Name: MW 1

Report#/Lab ID#: 125216

Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	94.4	80-120	---
Toluene-d8	8260b	105	88-110	---

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



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Client: Environmental Tech Group
Attn: Chance Johnson
Address: 4600 West Wall
Midland

Tx 79703

Phone: 915 522-1139 FAX: 915 520-4310

Report#/Lab ID#: 125217 Report Date: 02/06/02
Project ID: TNM 97-16 EOT 2021C
Sample Name: MW 2
Sample Matrix: water
Date Received: 02/01/2002 Time: 10:12
Date Sampled: 01/28/2002 Time: 11:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		02/01/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/01/02	8260b	J	7.9	87.3	93.1	87.9
Ethylbenzene	<1	µg/L	1	<1	02/01/02	8260b	---	0.3	96.9	100.4	100.4
m,p-Xylenes	<1	µg/L	1	<1	02/01/02	8260b	---	1.1	96.4	100	98.2
o-Xylene	<1	µg/L	1	<1	02/01/02	8260b	---	0.2	96.9	101.2	99.6
Toluene	<1	µg/L	1	<1	02/01/02	8260b	---	8.6	94.2	96.9	97.1

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Richard Laster

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Client: Environmental Tech Group
Attn: Chance Johnson

Project ID: TNM 97-16 EOT 2021C
Sample Name: MW 2

Report#/Lab ID#: 125217
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	88.4	80-120	---
Toluene-d8	8260b	105	88-110	---

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

Exceptions Report:

Report #/Lab ID#: 125217 Matrix: water
Client: Environmental Tech Group Attn: Chance Johnson
Project ID: TNM 97-16 EOT 2021C
Sample Name: MW 2

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzene	J	See J-flag discussion above.

Notes:



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Attn: Chance Johnson
Address: 4600 West Wall
Midland

Tx 79703

Phone: 915 522-1139 FAX: 915 520-4310

Report# / Lab ID#: 125218 Report Date: 02/06/02
Project ID: TNM 97-16 EOT 2021C
Sample Name: MW 3
Sample Matrix: water
Date Received: 02/01/2002 Time: 10:12
Date Sampled: 01/28/2002 Time: 11:19

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		02/01/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/01/02	8260b	---	7.9	87.3	93.1	87.9
Ethylbenzene	<1	µg/L	1	<1	02/01/02	8260b	---	0.3	96.9	100.4	100.4
m,p-Xylenes	<1	µg/L	1	<1	02/01/02	8260b	---	1.1	96.4	100	98.2
o-Xylene	<1	µg/L	1	<1	02/01/02	8260b	---	0.2	96.9	101.2	99.6
Toluene	<1	µg/L	1	<1	02/01/02	8260b	---	8.6	94.2	96.9	97.1

QUALITY ASSURANCE DATA¹

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Client: Environmental Tech Group
Attn: Chance Johnson

Project ID: TNM 97-16 BOT 2021C
Sample Name: MW 3

Report#/Lab ID#: 125218
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	91.9	80-120	---
Toluene-d8	8260b	105	88-110	---

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



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Midland

Tx 79703

Phone: 915 522-1139 FAX: 915 520-4310

Report#/Lab ID#: 125219 Report Date: 02/06/02
Project ID: TNM 97-16 EOT 2021C
Sample Name: MW 4
Sample Matrix: water
Date Received: 02/01/2002 Time: 10:12
Date Sampled: 01/28/2002 Time: 11:41

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		02/01/02	8260b	---	---	---	---
Benzene	<1	µg/L	1	<1	02/01/02	8260b	J	87.3	93.1	87.9
Ethylbenzene	<1	µg/L	1	<1	02/01/02	8260b	---	96.9	100.4	100.4
m,p-Xylenes	<1	µg/L	1	<1	02/01/02	8260b	---	96.4	100	98.2
o-Xylene	<1	µg/L	1	<1	02/01/02	8260b	---	96.9	101.2	99.6
Toluene	<1	µg/L	1	<1	02/01/02	8260b	---	94.2	96.9	97.1

QUALITY ASSURANCE DATA¹

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Client: Environmental Tech Group
Attn: Chance Johnson

Project ID: TNM 97-16 EOT 2021C

Sample Name: MW 4

Report#/Lab ID#: 125219

Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	87.8	80-120	---
Toluene-d8	8260b	106	88-110	---

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

Exceptions Report:

Report #/Lab ID#: 125219	Matrix: water	Attn: Chance Johnson
Client: Environmental Tech Group		
Project ID: TNM 97-16 EOT 2021C		
Sample Name: MW 4		

Sample Temperature/Condition <=6°C

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

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Parameter	Qualif	Comment
Benzene	J	See J-flag discussion above.

Notes:



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Client: Environmental Tech Group

Attn: Chance Johnson

Address: 4600 West Wall

Midland

Tx 79703

Phone: 915 522-1139

FAX: 915 520-4310

Report#/Lab ID#: 125220 Report Date: 02/06/02

Project ID: TNM 97-16 EOT 2021C

Sample Name: South Windmill

Sample Matrix: water

Date Received: 02/01/2002 Time: 10:12

Date Sampled: 01/28/2002 Time: 10:45

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		02/01/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/01/02	8260b	---	7.9	87.3	93.1	87.9
Ethylbenzene	<1	µg/L	1	<1	02/01/02	8260b	---	0.3	96.9	100.4	100.4
m,p-Xylenes	<1	µg/L	1	<1	02/01/02	8260b	---	1.1	96.4	100	98.2
o-Xylene	<1	µg/L	1	<1	02/01/02	8260b	---	0.2	96.9	101.2	99.6
Toluene	<1	µg/L	1	<1	02/01/02	8260b	---	8.6	94.2	96.9	97.1

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Client: Environmental Tech Group
Attn: Chance Johnson

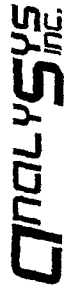
Project ID: TNM 97-16 EOT 2021C
Sample Name: South Windmill

Report#/Lab ID#: 125220
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	90	80-120	---
Toluene-d8	8260b	103	88-110	---

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



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Client: Environmental Tech Group
Attn: Chance Johnson
Address: 4600 West Wall
Midland

Tx 79703

Phone: 915 522-1139 FAX: 915 520-4310

Report# / Lab ID#: 125221 Report Date: 02/06/02
Project ID: TNM 97-16 EOT 2021C
Sample Name: EB 1
Sample Matrix: water
Date Received: 02/01/2002 Time: 10:12
Date Sampled: 01/28/2002 Time: 12:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		02/01/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	02/01/02	8260b	---	7.9	87.3	93.1	87.9
Ethylbenzene	<1	µg/L	1	<1	02/01/02	8260b	---	0.3	96.9	100.4	100.4
m,p-Xylenes	<1	µg/L	1	<1	02/01/02	8260b	---	1.1	96.4	100	98.2
o-Xylene	<1	µg/L	1	<1	02/01/02	8260b	---	0.2	96.9	101.2	99.6
Toluene	<1	µg/L	1	<1	02/01/02	8260b	---	8.6	94.2	96.9	97.1

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Respectfully Submitted,

Richard Laster

Richard Laster

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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: Chance Johnson

Project ID: TNM 97-16 EOT 2021C

Sample Name: EB 1

Report#/Lab ID#: 125221

Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	85.6	80-120	---
Toluene-d8	8260b	106	88-110	---

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



FILE

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

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

NM 88240

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

Report#/Lab ID#: 129460 Report Date: 05/20/02
Project ID: TNM 97-16 EOT 2021
Sample Name: MW 1
Sample Matrix: water
Date Received: 05/15/2002 Time: 09:20
Date Sampled: 05/13/2002 Time: 15:10

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		05/16/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	05/16/02	8260b	---	8.9	99.2	108.9	91.5
Ethylbenzene	<1	µg/L	1	<1	05/16/02	8260b	---	3.6	101.8	105.2	103
m,p-Xylenes	<1	µg/L	1	<1	05/16/02	8260b	---	3.3	102.2	106.9	101.7
o-Xylene	<1	µg/L	1	<1	05/16/02	8260b	---	3	101.9	102.3	103.3
Toluene	<1	µg/L	1	<1	05/16/02	8260b	---	8.5	105.8	107.5	98.1

QUALITY ASSURANCE DATA¹

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: TNM 97-16 EOT 2021
Sample Name: MW 1

Report#/Lab ID#: 129460
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	100	80-120	---
Toluene-d8	8260b	100	88-110	---

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



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

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

Report#/Lab ID#: 129461 Report Date: 05/20/02
Project ID: TNM 97-16 EOT 2021
Sample Name: MW 2
Sample Matrix: water
Date Received: 05/15/2002 Time: 09:20
Date Sampled: 05/13/2002 Time: 14:25

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		05/16/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	05/16/02	8260b	---	8.9	99.2	108.9	91.5
Ethylbenzene	<1	µg/L	1	<1	05/16/02	8260b	---	3.6	101.8	105.2	103
m,p-Xylenes	<1	µg/L	1	<1	05/16/02	8260b	---	3.3	102.2	106.9	101.7
o-Xylene	<1	µg/L	1	<1	05/16/02	8260b	---	3	101.9	102.3	103.3
Toluene	<1	µg/L	1	<1	05/16/02	8260b	---	8.5	105.8	107.5	98.1

QUALITY ASSURANCE DATA¹

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Tech Group	Project ID: TNM 97-16 EOT 2021	Report#/Lab ID#: 129461
Attn: Ken Dutton	Sample Name: MW 2	Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	101	80-120	---
Toluene-d8	8260b	100	88-110	---

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



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Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240
Phone: 505 397-4882 FAX: 505 397-4701

Report# / Lab ID #: 129462 Report Date: 05/20/02
Project ID: TNM 97-16 EOT 2021
Sample Name: MW 3
Sample Matrix: water
Date Received: 05/15/2002 Time: 09:20
Date Sampled: 05/13/2002 Time: 14:00

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		05/16/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	05/16/02	8260b	---	8.9	99.2	108.9	91.5
Ethylbenzene	<1	µg/L	1	<1	05/16/02	8260b	---	3.6	101.8	105.2	103
m,p-Xylenes	<1	µg/L	1	<1	05/16/02	8260b	---	3.3	102.2	106.9	101.7
o-Xylene	<1	µg/L	1	<1	05/16/02	8260b	---	3	101.9	102.3	103.3
Toluene	<1	µg/L	1	<1	05/16/02	8260b	---	8.5	105.8	107.5	98.1

QUALITY ASSURANCE DATA¹

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Tech Group	Project ID: TNM 97-16 EOT 2021	Report#/Lab ID#: 129462
Attn: Ken Dutton	Sample Name: MW 3	Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	99.5	80-120	---
Toluene-d8	8260b	100	88-110	---

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



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Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Marland
Hobbs,

NM 88240

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

Report# Lab ID#: 129463 Report Date: 05/20/02

Project ID: TNM 97-16 BOT 2021

Sample Name: MW 4

Sample Matrix: water

Date Received: 05/15/2002 Time: 09:20

Date Sampled: 05/13/2002 Time: 14:50

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		05/16/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	05/16/02	8260b	---	8.9	99.2	108.9	91.5
Ethylbenzene	<1	µg/L	1	<1	05/16/02	8260b	---	3.6	101.8	105.2	103
m,p-Xylenes	<1	µg/L	1	<1	05/16/02	8260b	---	3.3	102.2	106.9	101.7
o-Xylene	<1	µg/L	1	<1	05/16/02	8260b	---	3	101.9	102.3	103.3
Toluene	<1	µg/L	1	<1	05/16/02	8260b	---	8.5	105.8	107.5	98.1

QUALITY ASSURANCE DATA¹

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Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: TNM 97-16 EOT 2021
Sample Name: MW 4

Report#/Lab ID#: 129463
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	101	80-120	---
Toluene-d8	8260b	99.8	88-110	---

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



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Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Marland
Hobbs,

NM 88240

Phone: 505 397-4882

FAX: 505 397-4701

Report#/Lab ID#: 129464 Report Date: 05/20/02

Project ID: TNM 97-16 EOT 2021

Sample Name: South Wind Mill

Sample Matrix: water

Date Received: 05/15/2002 Time: 09:20

Date Sampled: 05/13/2002 Time: 13:50

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		05/17/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	05/17/02	8260b	---	8.9	99.2	108.9	91.5
Ethylbenzene	<1	µg/L	1	<1	05/17/02	8260b	---	3.6	101.8	105.2	103
m,p-Xylenes	<1	µg/L	1	<1	05/17/02	8260b	---	3.3	102.2	106.9	101.7
o-Xylene	<1	µg/L	1	<1	05/17/02	8260b	---	3	101.9	102.3	103.3
Toluene	<1	µg/L	1	<1	05/17/02	8260b	---	8.5	105.8	107.5	98.1

QUALITY ASSURANCE DATA¹

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Richard Laster

Richard Laster

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(512) 444-5896 • FAX (512) 447-4766

Client: Environmental Tech Group	Project ID: TNM 97-16 EOT 2021	Report#/Lab ID#: 129464
Attn: Ken Dutton	Sample Name: South Wind Mill	Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	99	80-120	---
Toluene-d8	8260b	100	88-110	---

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



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

NM 88240

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

Report#/Lab ID#: 129465 Report Date: 05/20/02
Project ID: TNM 97-16 EOT 2021
Sample Name: EB 1
Sample Matrix: water
Date Received: 05/15/2002 Time: 09:20
Date Sampled: 05/13/2002 Time: 15:30

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		05/16/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	05/16/02	8260b	---	8.9	99.2	108.9	91.5
Ethylbenzene	<1	µg/L	1	<1	05/16/02	8260b	---	3.6	101.8	105.2	103
m,p-Xylenes	<1	µg/L	1	<1	05/16/02	8260b	---	3.3	102.2	106.9	101.7
o-Xylene	<1	µg/L	1	<1	05/16/02	8260b	---	3	101.9	102.3	103.3
Toluene	<1	µg/L	1	<1	05/16/02	8260b	---	8.5	105.8	107.5	98.1

QUALITY ASSURANCE DATA¹

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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 97-16 EOT 2021
Sample Name: EB 1

Report#/Lab ID#: 129465
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	93.6	80-120	---
Toluene-d8	8260b	100	88-110	---

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

STYLING

Bill to (if different):

Company Name

Address

City _____ State _____ Zip _____

ATTN:

Phone _____ Fax _____

1

James Cass

[illegible]

(If 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 point of contact for results.)

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	Name	Affiliation	Date
Simon Cass	E.T.C.I.	5/14/02	Melanie Humphreys	ASI	5/15/02

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



3512 Montopolis Dr., Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Marland
Hobbs,

NM 88240

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

Report#/Lab ID#: 132986 Report Date: 08/29/02
Project ID: TNM 97-16 EO 2021C

Sample Name: MW 1

Sample Matrix: water

Date Received: 08/23/2002 Time: 09:45

Date Sampled: 08/19/2002 Time: 13:52

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		08/28/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	08/28/02	8260b	---	9.4	82.8	94.4	86
Ethylbenzene	<1	µg/L	1	<1	08/28/02	8260b	---	4.5	103.2	99.3	105.4
m,p-Xylenes	<1	µg/L	1	<1	08/28/02	8260b	---	1.5	106.3	95.8	104.2
o-Xylene	<1	µg/L	1	<1	08/28/02	8260b	---	3.1	112.6	99.4	108.2
Toluene	<1	µg/L	1	<1	08/28/02	8260b	---	6.1	95.5	98.6	100.7

QUALITY ASSURANCE DATA¹

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Respectfully Submitted,

Richard Laster

Richard Laster

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3512 Montopolis Dr., Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group Attn: Ken Dutton	Project ID: TNM 97-16 EO 2021C Sample Name: MW 1	Report#/Lab ID#: 132986 Sample Matrix: water
--	---	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	113	80-120	---
Toluene-d8	8260b	107	88-110	---

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



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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240
Phone: 505 397-4882 FAX: 505 397-4701

Report# Lab ID#: 132987 Report Date: 08/29/02
Project ID: TNM 97-16 EO 2021C
Sample Name: MW 2
Sample Matrix: water
Date Received: 08/23/2002 Time: 09:45
Date Sampled: 08/19/2002 Time: 12:45

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		08/28/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	08/28/02	8260b	---	9.4	82.8	94.4	86
Ethylbenzene	<1	µg/L	1	<1	08/28/02	8260b	---	4.5	103.2	99.3	105.4
m,p-Xylenes	<1	µg/L	1	<1	08/28/02	8260b	---	1.5	106.3	95.8	104.2
o-Xylene	<1	µg/L	1	<1	08/28/02	8260b	---	3.1	112.6	99.4	108.2
Toluene	<1	µg/L	1	<1	08/28/02	8260b	---	6.1	95.5	98.6	100.7

QUALITY ASSURANCE DATA¹

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Richard Laster

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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group Attn: Ken Dutton	Project ID: TNM 97-16 EO 2021C Sample Name: MW 2	Report#/Lab ID#: 132987 Sample Matrix: water
--	---	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	116	80-120	---
Toluene-d8	8260b	106	88-110	---

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

Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Marland
Hobbs, NM 88240

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

Report#/Lab ID#: 132988 **Report Date:** 08/29/02

Project ID: TNM 97-16 EO 2021C

Sample Name: MW 3

Sample Matrix: water

Date Received: 08/23/2002 **Time:** 09:45

Date Sampled: 08/19/2002 **Time:** 13:05

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX					08/28/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	08/28/02	8260b	---	9.4	82.8	94.4	86
Ethylbenzene	<1	µg/L	1	<1	08/28/02	8260b	---	4.5	103.2	99.3	105.4
m,p-Xylenes	<1	µg/L	1	<1	08/28/02	8260b	---	1.5	106.3	95.8	104.2
o-Xylene	<1	µg/L	1	<1	08/28/02	8260b	---	3.1	112.6	99.4	108.2
Toluene	<1	µg/L	1	<1	08/28/02	8260b	---	6.1	95.5	98.6	100.7

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Richard Laster

Richard Laster

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: TNM 97-16 EO 2021C
Sample Name: MW 3

Report#/Lab ID#: 132988
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	117	80-120	---
Toluene-d8	8260b	107	88-110	---

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



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Client: Environmental Tech Group

Attn: Ken Dutton

Address: 2540 W. Marland
Hobbs,

NM 88240

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

Report#/Lab ID#: 132989 Report Date: 08/29/02

Project ID: TNM97-16 EO 2021C

Sample Name: MW 4

Sample Matrix: water

Date Received: 08/23/2002 Time: 09:45

Date Sampled: 08/19/2002 Time: 13:30

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		08/29/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	08/29/02	8260b	---	4.5	83.5	96.1	79.6
Ethylbenzene	<1	µg/L	1	<1	08/29/02	8260b	---	0.3	106.2	103.9	110.9
m,p-Xylenes	<1	µg/L	1	<1	08/29/02	8260b	---	5.3	102.1	105.7	119.2
o-Xylene	<1	µg/L	1	<1	08/29/02	8260b	---	7.9	104.2	110	124.1
Toluene	<1	µg/L	1	<1	08/29/02	8260b	---	0.7	95.8	102.5	95.5

QUALITY ASSURANCE DATA¹

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Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: TNM 97-16 EO 2021C
Sample Name: MW 4

Report#/Lab ID#: 132989
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	112	80-120	---
Toluene-d8	8260b	108	88-110	---

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



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Client: Environmental Tech Group
Attn: Ken Dutton.

Address: 2540 W. Marland
Hobbs, NM 88240

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

Report#/Lab ID#: 132990 Report Date: 08/29/02

Project ID: TNM97-16 EO 2021C

Sample Name: South Windmill

Sample Matrix: water

Date Received: 08/23/2002 Time: 09:45

Date Sampled: 08/19/2002 Time: 12:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		08/29/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	08/29/02	8260b	---	4.5	83.5	96.1	79.6
Ethylbenzene	<1	µg/L	1	<1	08/29/02	8260b	---	0.3	106.2	103.9	110.9
m,p-Xylenes	<1	µg/L	1	<1	08/29/02	8260b	---	5.3	102.1	105.7	119.2
o-Xylene	<1	µg/L	1	<1	08/29/02	8260b	---	7.9	104.2	110	124.1
Toluene	<1	µg/L	1	<1	08/29/02	8260b	---	0.7	95.8	102.5	95.5

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Ken Dutton

Project ID: TNM 97-16 EO 2021C
Sample Name: South Windmill

Report#/Lab ID#: 132990
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	113	80-120	---
Toluene-d8	8260b	108	88-110	---

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



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Client: Environmental Tech Group
Attn: Ken Dutton
Address: 2540 W. Marland
Hobbs, NM 88240
Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 132991 Report Date: 08/29/02
Project ID: TNM 97-16 EO 2021C
Sample Name: EB 1
Sample Matrix: water
Date Received: 08/23/2002 Time: 09:45
Date Sampled: 08/19/2002 Time: 14:10

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		08/29/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	08/29/02	8260b	---	4.5	83.5	96.1	79.6
Ethylbenzene	<1	µg/L	1	<1	08/29/02	8260b	---	0.3	106.2	103.9	110.9
m,p-Xylenes	<1	µg/L	1	<1	08/29/02	8260b	---	5.3	102.1	105.7	119.2
o-Xylene	<1	µg/L	1	<1	08/29/02	8260b	---	7.9	104.2	110	124.1
Toluene	<1	µg/L	1	<1	08/29/02	8260b	---	0.7	95.8	102.5	95.5

QUALITY ASSURANCE DATA¹

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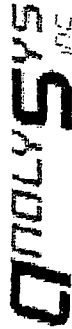
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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group Attn: Ken Dutton	Project ID: TNM 97-16 EO 2021C Sample Name: EB 1	Report#/Lab ID#: 132991 Sample Matrix: water
--	---	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	113	80-120	---
Toluene-d8	8260b	108	88-110	---

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



FILE

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group

Attn: Camille Reynolds

Address: 2540 W. Marland

Hobbs

NM 88240

Phone: 505 397-4882

FAX: 505 397-4701

Report#/Lab ID#: 137510 Report Date: 12/26/02

Project ID: TNM 97-16 EO 2021

Sample Name: MW 1

Sample Matrix: water

Date Received: 12/18/2002 Time: 14:30

Date Sampled: 12/16/2002 Time: 11:27

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		12/20/02	8260b	---	---	---	---	---
Benzene	2.16	µg/L	1	<1	12/20/02	8260b	---	7.9	88.5	86.6	80.3
Ethylbenzene	<1	µg/L	1	<1	12/20/02	8260b	J	3.7	111.2	111.2	105.4
m,p-Xylenes	<1	µg/L	1	<1	12/20/02	8260b	---	5.7	108.3	107.3	99.7
o-Xylene	<1	µg/L	1	<1	12/20/02	8260b	---	4.6	112.2	110.7	105.4
Toluene	<1	µg/L	1	<1	12/20/02	8260b	J	12.9	101	90.1	88.7

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Camille Reynolds

Project ID: TNM 97-16 EO 2021
Sample Name: MW 1

Report#/Lab ID#: 137510
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	81.8	80-120	---
Toluene-d8	8260b	99.4	88-110	---

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

Exceptions Report:

Report #/Lab ID#: 137510	Matrix: water	Attn: Camille Reynolds
Client: Environmental Tech Group		
Project ID: TNM 97-16 EO 2021		
Sample Name: MW 1		

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Ethylbenzene	J	See J-flag discussion above.
Toluene	J	See J-flag discussion above.

Notes:



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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Camille Reynolds
Address: 2540 W. Marland
Hobbs NM 88240

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

Report# / Lab ID#: 137511 Report Date: 12/26/02
Project ID: TNM 97-16 EO 2021

Sample Name: MW 2

Sample Matrix: water

Date Received: 12/18/2002 Time: 14:30

Date Sampled: 12/16/2002 Time: 11:47

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		12/20/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	12/20/02	8260b	---	7.9	88.5	86.6	80.3
Ethylbenzene	<1	µg/L	1	<1	12/20/02	8260b	---	3.7	111.2	111.2	105.4
m,p-Xylenes	<1	µg/L	1	<1	12/20/02	8260b	---	5.7	108.3	107.3	99.7
o-Xylene	<1	µg/L	1	<1	12/20/02	8260b	---	4.6	112.2	110.7	105.4
Toluene	<1	µg/L	1	<1	12/20/02	8260b	---	12.9	101	90.1	88.7

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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 exceeds 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.



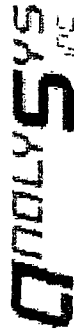
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group Attn: Camille Reynolds	Project ID: TNM 97-16 EO 2021 Sample Name: MW 2	Report#/Lab ID#: 137511 Sample Matrix: water
--	--	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	80	80-120	---
Toluene-d8	8260b	95.8	88-110	---

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



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Client: Environmental Tech Group
Attn: Camille Reynolds
Address: 2540 W. Marland
Hobbs

NM 88240

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

Report#/Lab ID#: 137512 Report Date: 12/26/02

Project ID: TNM 97-16 EO 2021

Sample Name: MW 3

Sample Matrix: water

Date Received: 12/18/2002 Time: 14:30

Date Sampled: 12/16/2002 Time: 12:06

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		12/20/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	12/20/02	8260b	J	7.9	88.5	86.6	80.3
Ethylbenzene	<1	µg/L	1	<1	12/20/02	8260b	---	3.7	111.2	111.2	105.4
m,p-Xylenes	<1	µg/L	1	<1	12/20/02	8260b	---	5.7	108.3	107.3	99.7
o-Xylene	<1	µg/L	1	<1	12/20/02	8260b	---	4.6	112.2	110.7	105.4
Toluene	<1	µg/L	1	<1	12/20/02	8260b	---	12.9	101	90.1	88.7

QUALITY ASSURANCE DATA¹

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Camille Reynolds

Project ID: TNM 97-16 EO 2021
Sample Name: MW 3

Report#/Lab ID#: 137512
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	86.6	80-120	---
Toluene-d8	8260b	97.1	88-110	---

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

Exceptions Report:

Report #/Lab ID#: 137512	Matrix: water	Attn: Camille Reynolds
Client: Environmental Tech Group		
Project ID: TNM 97-16 EO 2021		
Sample Name: MW 3		

Sample Temperature/Condition <=6°C

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

Sample Bottles & Preservation

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

J flag Discussion

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

Comments pertaining to Data Qualifiers and QC data:

Parameter	Qualif	Comment
Benzene	J	See J-flag discussion above.

Notes:



3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group

Attn: Camille Reynolds

Address: 2540 W. Marland

Hobbs NM 88240

Phone: 505 397-4882

FAX: 505 397-4701

Report#/Lab ID#: 137513 Report Date: 12/26/02

Project ID: TNM 97-16 EO 2021

Sample Name: MW 4

Sample Matrix: water

Date Received: 12/18/2002 Time: 14:30

Date Sampled: 12/16/2002 Time: 12:25

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		12/20/02	8260b	---	---	---	---	---
Benzene	2.4	µg/L	1	<1	12/20/02	8260b	---	7.9	88.5	86.6	80.3
Ethylbenzene	<1	µg/L	1	<1	12/20/02	8260b	J	3.7	111.2	111.2	105.4
m,p-Xylenes	<1	µg/L	1	<1	12/20/02	8260b	J	5.7	108.3	107.3	99.7
o-Xylene	<1	µg/L	1	<1	12/20/02	8260b	---	4.6	112.2	110.7	105.4
Toluene	<1	µg/L	1	<1	12/20/02	8260b	J	12.9	101	90.1	88.7

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Client: Environmental Tech Group
Attn: Camille Reynolds

Project ID: TNM 97-16 EO 2021
Sample Name: MW 4

Report#/Lab ID#: 137513
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	85.5	80-120	---
Toluene-d8	8260b	97.2	88-110	---

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

Exceptions Report:

Report #/Lab ID#: 137513 Matrix: water
Client: Environmental Tech Group
Project ID: TNM 97-16 EO 2021
Sample Name: MW 4

Attn: Camille Reynolds

Sample Temperature/Condition $\leq 6^{\circ}\text{C}$

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

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Comments pertaining to Data Qualifiers and QC data:

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

Notes:



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Client: Environmental Tech Group
Attn: Carnille Reynolds
Address: 2540 W. Marland
Hobbs NM 88240

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

Report#/Lab ID#: 137514 Report Date: 12/26/02
Project ID: TNM 97-16 EO 2021
Sample Name: S Windmill
Sample Matrix: water
Date Received: 12/18/2002 Time: 14:30
Date Sampled: 12/16/2002 Time: 11:15

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		12/20/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	12/20/02	8260b	---	7.9	88.5	86.6	80.3
Ethylbenzene	<1	µg/L	1	<1	12/20/02	8260b	---	3.7	111.2	111.2	105.4
m,p-Xylenes	<1	µg/L	1	<1	12/20/02	8260b	---	5.7	108.3	107.3	99.7
o-Xylene	<1	µg/L	1	<1	12/20/02	8260b	---	4.6	112.2	110.7	105.4
Toluene	<1	µg/L	1	<1	12/20/02	8260b	---	12.9	101	90.1	88.7

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Richard Laster

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Client: Environmental Tech Group
Attn: Camille Reynolds

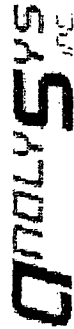
Project ID: TNM 97-16 EO 2021
Sample Name: S Windmill

Report#/Lab ID#: 137514
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	87.4	80-120	---
Toluene-d8	8260b	97.8	88-110	---

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



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Client: Environmental Tech Group

Attn: Camille Reynolds

Address: 2540 W. Marland

Hobbs

NM 88240

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

Report#/Lab ID#: 137515 Report Date: 12/26/02

Project ID: TNM 97-16 EO 2021

Sample Name: EB 1

Sample Matrix: water

Date Received: 12/18/2002 Time: 14:30

Date Sampled: 12/16/2002 Time: 12:31

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		12/19/02	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	12/19/02	8260b	---	7.9	88.5	86.6	80.3
Ethylbenzene	<1	µg/L	1	<1	12/19/02	8260b	---	3.7	111.2	111.2	105.4
m,p-Xylenes	<1	µg/L	1	<1	12/19/02	8260b	---	5.7	108.3	107.3	99.7
o-Xylene	<1	µg/L	1	<1	12/19/02	8260b	---	4.6	112.2	110.7	105.4
Toluene	<1	µg/L	1	<1	12/19/02	8260b	---	12.9	101	90.1	88.7

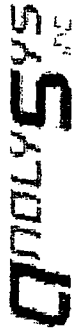
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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Camille Reynolds

Project ID: TNM 97-16 EO 2021
Sample Name: EB 1

Report#/Lab ID#: 137515
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	84.3	80-120	---
Toluene-d8	8260b	102	88-110	---

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

7-7755 INC.

Bill to (if different): C0C: 212

Company Name

Address

City

ATTN:

Phone

mgr.):

Sampler: W. G. B. (m)

[illegible]

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 units (NID/PQI.). 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: 41.1 C

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
M. J. L. Corp.	E. T. S. I.	12/17/02	0830	Melanie Humphrey	ASL	12/18/02	14:30

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

Client: Environmental Tech Group

Attn: Camille Reynolds

Address: 2540 W. Marland

Hobbs

NM 88240

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

Report#/Lab ID#: 140888 **Report Date:** 04/03/03

Project ID: EO 2021 TNM 97-16

Sample Name: MW-1

Sample Matrix: water

Date Received: 03/28/2003 **Time:** 12:20

Date Sampled: 03/26/2003 **Time:** 15:00

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		04/01/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	04/01/03	8260b	---	1.6	86.7	89.6	80.5
Ethylbenzene	<1	µg/L	1	<1	04/01/03	8260b	---	5.1	101.8	97.4	102.1
m,p-Xylenes	<1	µg/L	1	<1	04/01/03	8260b	---	0.7	103.4	98.6	106.4
o-Xylene	<1	µg/L	1	<1	04/01/03	8260b	---	0.3	102.8	99.7	106.7
Toluene	<1	µg/L	1	<1	04/01/03	8260b	---	1.6	91	96.5	85.7

QUALITY ASSURANCE DATA¹

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Client: Environmental Tech Group
Attn: Camille Reynolds

Project ID: EO 2021 TNM 97-16
Sample Name: MW-1

Report#/Lab ID#: 140888
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	96.7	80-120	---
Toluene-d8	8260b	107	88-110	---

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

Client: Environmental Tech Group
Attn: Camille Reynolds
Address: 2540 W. Marland
Hobbs NM 88240

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

Report#/Lab ID#: 140889 **Report Date:** 04/03/03
Project ID: EO 2021 TNM 97-16
Sample Name: MW-2
Sample Matrix: water
Date Received: 03/28/2003 **Time:** 12:20
Date Sampled: 03/26/2003 **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
Volatiles organics-8260b/BTEX	---		---		04/01/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	04/01/03	8260b	---	1.6	86.7	89.6	80.5
Ethylbenzene	<1	µg/L	1	<1	04/01/03	8260b	---	5.1	101.8	97.4	102.1
m,p-Xylenes	<1	µg/L	1	<1	04/01/03	8260b	---	0.7	103.4	98.6	106.4
o-Xylene	<1	µg/L	1	<1	04/01/03	8260b	---	0.3	102.8	99.7	106.7
Toluene	<1	µg/L	1	<1	04/01/03	8260b	---	1.6	91	96.5	85.7

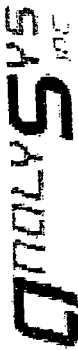
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Client: Environmental Tech Group
Attn: Camille Reynolds

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	100	80-120	---
Toluene-d8	8260b	105	88-110	---

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

Project ID: EO 2021 TNM 97-16
Sample Name: MW-2

Report#/Lab ID#: 140889
Sample Matrix: water

2 M. ... X 70744 & 70500
2209 N. Padre Island Dr., Corpus Christi, TX 78400
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Camille Reynolds
Address: 2540 W. Marland
Hobbs NM 88240

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

Report#/Lab ID#: 140890 **Report Date:** 04/03/03
Project ID: EO 2021 TNM 97-16
Sample Name: MW-3
Sample Matrix: water

Date Received: 03/28/2003 **Time:** 12:20
Date Sampled: 03/26/2003 **Time:** 11:15

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA 1

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		04/01/03	8260b	---	---	---	---	---
Benzene	1.49	µg/L	1	<1	04/01/03	8260b	---	1.6	86.7	89.6	80.5
Ethylbenzene	<1	µg/L	1	<1	04/01/03	8260b	---	5.1	101.8	97.4	102.1
m,p-Xylenes	2.58	µg/L	1	<1	04/01/03	8260b	---	0.7	103.4	98.6	106.4
o-Xylene	<1	µg/L	1	<1	04/01/03	8260b	---	0.3	102.8	99.7	106.7
Toluene	<1	µg/L	1	<1	04/01/03	8260b	---	1.6	91	96.5	85.7

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Tech Group
 Attn: Camille Reynolds

Project ID: EO 2021 TNM 97-16
 Sample Name: MW-3

Report#/Lab ID#: 140890
 Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	109	80-120	
Toluene-d8	8260b	108	88-110	

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

Client: Environmental Tech Group
Attn: Camille Reynolds
Address: 2540 W. Marland
Hobbs NM 88240

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

Report#/Lab ID#: 140891 **Report Date:** 04/03/03
Project ID: EO 2021 TNM 97-16

Sample Name: MW-4

Sample Matrix: water

Date Received: 03/28/2003 **Time:** 12:20

Date Sampled: 03/26/2003 **Time:** 12:30

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---	---	---	---	04/01/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	04/01/03	8260b	---	1.6	86.7	89.6	80.5
Ethylbenzene	<1	µg/L	1	<1	04/01/03	8260b	---	5.1	101.8	97.4	102.1
m,p-Xylenes	<1	µg/L	1	<1	04/01/03	8260b	---	0.7	103.4	98.6	106.4
o-Xylene	<1	µg/L	1	<1	04/01/03	8260b	---	0.3	102.8	99.7	106.7
Toluene	<1	µg/L	1	<1	04/01/03	8260b	---	1.6	91	96.5	85.7

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Client: Environmental Tech Group	Project ID: EO 2021 TNM 97-16	Report#/Lab ID#: 140891
Attn: Carnille Reynolds	Sample Name: MW-4	Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	97.2	80-120	---
Toluene-d8	8260b	108	88-110	---

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

Client: Environmental Tech Group
Attn: Camille Reynolds
Address: 2540 W. Marland
 Hobbs

NM 88240

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

Report#/Lab ID#: 140892 **Report Date:** 04/03/03
Project ID: EO 2021 TNM 97-16

Sample Name: South Windmill

Sample Matrix: water

Date Received: 03/28/2003 **Time:** 12:20

Date Sampled: 03/26/2003 **Time:** 16:00

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		04/01/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	04/01/03	8260b	---	1.6	86.7	89.6	80.5
Ethylbenzene	<1	µg/L	1	<1	04/01/03	8260b	---	5.1	101.8	97.4	102.1
m,p-Xylenes	<1	µg/L	1	<1	04/01/03	8260b	---	0.7	103.4	98.6	106.4
o-Xylene	<1	µg/L	1	<1	04/01/03	8260b	---	0.3	102.8	99.7	106.7
Toluene	<1	µg/L	1	<1	04/01/03	8260b	---	1.6	91	96.5	85.7

QUALITY ASSURANCE DATA¹

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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Tech Group
Attn: Camille Reynolds

Project ID: EO 2021 TNM 97-16
Sample Name: South Windmill

Report#/Lab ID#: 140892
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	100	80-120	---
Toluene-d8	8260b	107	88-110	---

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

Client: Environmental Tech Group
Attn: Camille Reynolds
Address: 2540 W. Marland
Hobbs NM 88240

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

Report#/Lab ID#: 143905 **Report Date:** 06/18/03
Project ID: EO 2021 TNM 97-16
Sample Name: MW-1
Sample Matrix: water
Date Received: 06/11/2003 **Time:** 12:00
Date Sampled: 06/06/2003 **Time:** 09:00

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		06/13/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	06/13/03	8260b	---	4.9	86.3	82.3	81.9
Ethylbenzene	<1	µg/L	1	<1	06/13/03	8260b	---	1.7	101.5	97.9	98.3
m,p-Xylenes	<1	µg/L	1	<1	06/13/03	8260b	---	1.4	109.9	108.8	105.3
o-Xylene	<1	µg/L	1	<1	06/13/03	8260b	---	0.2	108.1	114.4	102.8
Toluene	<1	µg/L	1	<1	06/13/03	8260b	---	1.4	90.5	86.3	86.5

QUALITY ASSURANCE DATA¹

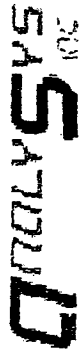
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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Tech Group
Attn: Camille Reynolds

Project ID: EO 2021 TNM 97-16
Sample Name: MW-1

Report#/Lab ID#: 143905
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	93.9	80-120	---
Toluene-d8	8260b	88.3	88-110	---

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



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Client: Environmental Tech Group

Attn: Camille Reynolds

Address: 2540 W. Marland

Hobbs

NM 88240

Phone: 505 397-4882

FAX: 505 397-4701

Report#/Lab ID#: 143906 Report Date: 06/18/03

Project ID: EO 2021 TNM 97-16

Sample Name: MW-2

Sample Matrix: water

Date Received: 06/11/2003 Time: 12:00

Date Sampled: 06/06/2003 Time: 10:00

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		+		06/13/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	06/13/03	8260b	---	4.9	86.3	82.3	81.9
Ethylbenzene	<1	µg/L	1	<1	06/13/03	8260b	---	1.7	101.5	97.9	98.3
m,p-Xylenes	<1	µg/L	1	<1	06/13/03	8260b	---	1.4	109.9	108.8	105.3
o-Xylene	<1	µg/L	1	<1	06/13/03	8260b	---	0.2	108.1	114.4	102.8
Toluene	<1	µg/L	1	<1	06/13/03	8260b	---	1.4	90.5	86.3	86.5

QUALITY ASSURANCE DATA¹

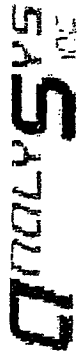
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Richard Laster

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Client: Environmental Tech Group
Attn: Camille Reynolds

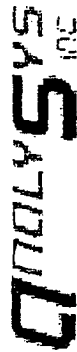
Project ID: EO 2021 TNM 97-16
Sample Name: MW-2

Report#/Lab ID#: 143906
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	91.5	80-120	---
Toluene-d8	8260b	109	88-110	---

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



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Client: Environmental Tech Group
Attn: Camille Reynolds
Address: 2540 W. Marland
Hobbs NM 88240

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

Report#/Lab ID#: 143907 Report Date: 06/18/03
Project ID: EO 2021 TNM 97-16
Sample Name: MW-3
Sample Matrix: water
Date Received: 06/11/2003 Time: 12:00
Date Sampled: 06/06/2003 Time: 11:00

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		06/13/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	06/13/03	8260b	---	4.9	86.3	82.3	81.9
Ethylbenzene	<1	µg/L	1	<1	06/13/03	8260b	---	1.7	101.5	97.9	98.3
m,p-Xylenes	<1	µg/L	1	<1	06/13/03	8260b	---	1.4	109.9	108.8	105.3
o-Xylene	<1	µg/L	1	<1	06/13/03	8260b	---	0.2	108.1	114.4	102.8
Toluene	<1	µg/L	1	<1	06/13/03	8260b	---	1.4	90.5	86.3	86.5

QUALITY ASSURANCE DATA¹

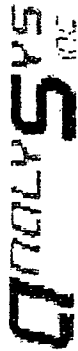
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Respectfully Submitted,

Richard Laster

Richard Laster

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Client: Environmental Tech Group
Attn: Camille Reynolds

Project ID: EO 2021 TNM 97-16
Sample Name: MW-3

Report#/Lab ID#: 143907
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	92.4	80-120	---
Toluene-d8	8260b	105	88-110	---

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



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Client: Environmental Tech Group
Attn: Camille Reynolds
Address: 2540 W. Marland
Hobbs

NM 88240

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

Report#/Lab ID#: 143908 Report Date: 06/18/03

Project ID: EO 2021 TNM 97-16

Sample Name: MW-4

Sample Matrix: water

Date Received: 06/11/2003 Time: 12:00

Date Sampled: 06/06/2003 Time: 12:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		06/16/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	06/16/03	8260b	---	4.9	86.3	82.3	81.9
Ethylbenzene	<1	µg/L	1	<1	06/16/03	8260b	---	1.7	101.5	97.9	98.3
m,p-Xylenes	<1	µg/L	1	<1	06/16/03	8260b	---	1.4	109.9	108.8	105.3
o-Xylene	<1	µg/L	1	<1	06/16/03	8260b	---	0.2	108.1	114.4	102.8
Toluene	<1	µg/L	1	<1	06/16/03	8260b	---	1.4	90.5	86.3	86.5

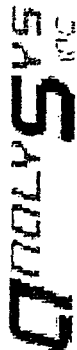
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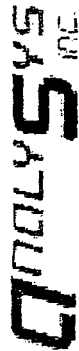
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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group	Project ID: EO 2021 TNM 97-16	Report#/Lab ID#: 143908
Attn: Camille Reynolds	Sample Name: MW-4	Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	89.7	80-120	---
Toluene-d8	8260b	99.8	88-110	---

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



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Client: Environmental Tech Group

Attn: Camille Reynolds

Address: 2540 W. Marland

Hobbs

NM 88240

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

Report#/Lab ID#: 143909 Report Date: 06/18/03

Project ID: EO 2021 TNM 97-16

Sample Name: Wind Mill

Sample Matrix: water

Date Received: 06/11/2003 Time: 12:00

Date Sampled: 06/06/2003 Time: 13:00

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		06/16/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	06/16/03	8260b	---	4.9	86.3	82.3	81.9
Ethylbenzene	<1	µg/L	1	<1	06/16/03	8260b	---	1.7	101.5	97.9	98.3
m,p-Xylenes	<1	µg/L	1	<1	06/16/03	8260b	---	1.4	109.9	108.8	105.3
o-Xylene	<1	µg/L	1	<1	06/16/03	8260b	---	0.2	108.1	114.4	102.8
Toluene	<1	µg/L	1	<1	06/16/03	8260b	---	1.4	90.5	86.3	86.5

QUALITY ASSURANCE DATA¹

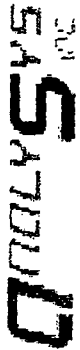
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Respectfully Submitted,

Richard Laster

Richard Laster

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Camille Reynolds

Project ID: EO 2021 TNM 97-16
Sample Name: Wind Mill

Report#/Lab ID#: 143909
Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	99.9	80-120	---
Toluene-d8	8260b	107	88-110	---

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

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57/75

Send Reports To:

Company Name Environmental Technology Corp Inc.

Address 2340 W. 127th Ave

City Hobbs State N.M. Zip 88240

ATTN: Camille Reynolds

Phone (505) 397-4882 Fax (505) 397-4701

Rush Status (must be confirmed with lab mgr.):

Project Name/PC# #: EO 2021 Sampler: Sestini Fork

Bill to (if different):

Company Name Self

Address

City _____ State _____ Zip _____

ATTN:

Phone _____ Fax _____

Analyses Requested (

Please attach explanatory information as

3512 Montopolis Drive, Austin, TX 78704
Phone: (512) 385-5886 Fax: (512) 385-5887

709 N.P.J.D., Ste K, Corpus Christi, TX

Phone: (361) 289-6384 Fax: (361) 289-

Client Sample No. Description/Identification	Date Sampled	Time Sampled	No. of Containers	Soll	Water/Waste	Lab I.D. # (Lab only)
MW-1	6-6-03	9:00	2		X	143905
MW-2	6-6-03	10:00	2		X	143906
MW-3	6-6-03	11:00	2		X	143907
MW-4	6-6-03	12:00	2		X	143908
Wind Mill	6-6-03	1:00	2		X	143909

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 units (MIDL/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 Pol
ASI's HSL list at ASI's option. Specific compound lists must be supplied for all GC procedures.

$$T = 5.5^\circ$$

Sample Relinquished By				Sample Received By			
Name	Affiliation	Date	Time	Name	Affiliation	Date	Time
Leite	ERAT	6-6-03		Melanie Humphrey	ASL	6/11/03	12:00

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QUALITYSYS**FILE**3512 Montopolis Drive, Austin, TX 78744 &
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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Camille Reynolds
Address: 2540 W. Marland
Hobbs NM 88240
Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 146876 Report Date: 09/09/03
Project ID: EO 2021
Sample Name: MW-1
Sample Matrix: water
Date Received: 09/03/2003 Time: 14:05
Date Sampled: 09/02/2003 Time: 11:00

REPORT OF ANALYSIS**QUALITY ASSURANCE DATA¹**

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		09/09/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	09/09/03	8260b	---	3	85	86.2	86.9
Ethylbenzene	<1	µg/L	1	<1	09/09/03	8260b	---	2.3	105.7	105.5	105.1
m,p-Xylenes	<1	µg/L	1	<1	09/09/03	8260b	---	2.4	107.4	106.2	106.6
o-Xylene	<1	µg/L	1	<1	09/09/03	8260b	---	2.9	104.5	103.8	105.6
Toluene	<1	µg/L	1	<1	09/09/03	8260b	---	0.2	100.3	98.2	100.2

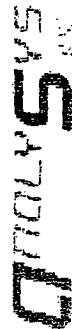
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Respectfully Submitted,

Richard Laster

Richard Laster

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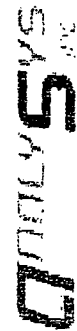
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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group Attn: Camille Reynolds	Project ID: EO 2021 Sample Name: MW-1	Report#/Lab ID#: 146876 Sample Matrix: water
--	--	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	93.9	80-120	---
Toluene-d8	8260b	104	88-110	---

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



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Client: Environmental Tech Group
Attn: Camille Reynolds
Address: 2540 W. Marland
Hobbs NM 88240

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

Report#/Lab ID#: 146877 Report Date: 09/09/03
Project ID: EO 2021
Sample Name: MW-2
Sample Matrix: water
Date Received: 09/03/2003 Time: 14:05
Date Sampled: 09/02/2003 Time: 11:30

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		09/09/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	09/09/03	8260b	---	3	85	86.2	86.9
Ethylbenzene	<1	µg/L	1	<1	09/09/03	8260b	---	2.3	105.7	105.5	105.1
m,p-Xylenes	<1	µg/L	1	<1	09/09/03	8260b	---	2.4	107.4	106.2	106.6
o-Xylene	<1	µg/L	1	<1	09/09/03	8260b	---	2.9	104.5	103.8	105.6
Toluene	<1	µg/L	1	<1	09/09/03	8260b	---	0.2	100.3	98.2	100.2

QUALITY ASSURANCE DATA¹

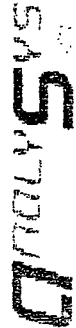
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Client: Environmental Tech Group	Project ID: EO 2021	Report#/Lab ID#: 146877
Attn: Camille Reynolds	Sample Name: MW-2	Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	90.8	80-120	--
Toluene-d8	8260b	106	88-110	--

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



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Client: Environmental Tech Group
Attn: Camille Reynolds
Address: 2540 W. Marland
Hobbs NM 88240
Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 146878 **Report Date:** 09/09/03
Project ID: EO 2021
Sample Name: MW-3
Sample Matrix: water
Date Received: 09/02/2003 **Time:** 14:05
Date Sampled: 09/02/2003 **Time:** 13:00

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		09/09/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	09/09/03	8260b	---	3	85	86.2	86.9
Ethylbenzene	<1	µg/L	1	<1	09/09/03	8260b	---	2.3	105.7	105.5	105.1
m,p-Xylenes	<1	µg/L	1	<1	09/09/03	8260b	---	2.4	107.4	106.2	106.6
o-Xylene	<1	µg/L	1	<1	09/09/03	8260b	---	2.9	104.5	103.8	105.6
Toluene	<1	µg/L	1	<1	09/09/03	8260b	---	0.2	100.3	98.2	100.2

QUALITY ASSURANCE DATA¹

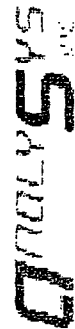
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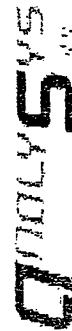
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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group Attn: Camille Reynolds	Project ID: EO 2021 Sample Name: MW-3	Report#/Lab ID#: 146878 Sample Matrix: water
--	--	---

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	96.9	80-120	---
Toluene-d8	8260b	104	88-110	---

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



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Client: Environmental Tech Group
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Address: 2540 W. Marland
Hobbs NM 88240

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

Report#/Lab ID#: 146879 Report Date: 09/09/03
Project ID: EO 2021
Sample Name: MW-4
Sample Matrix: water
Date Received: 09/03/2003 Time: 14:05
Date Sampled: 09/02/2003 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
Volatiles organics-8260b/BTEX	---		---		09/09/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	09/09/03	8260b	---	3	85	86.2	86.9
Ethylbenzene	<1	µg/L	1	<1	09/09/03	8260b	---	2.3	105.7	105.5	105.1
m,p-Xylenes	<1	µg/L	1	<1	09/09/03	8260b	---	2.4	107.4	106.2	106.6
o-Xylene	<1	µg/L	1	<1	09/09/03	8260b	---	2.9	104.5	103.8	105.6
Toluene	<1	µg/L	1	<1	09/09/03	8260b	---	0.2	100.3	98.2	100.2

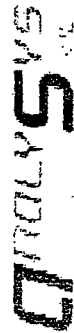
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Richard Laster

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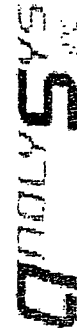
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Client: Environmental Tech Group	Project ID: EO 2021	Report#/Lab ID#: 146879
Attn: Camille Reynolds	Sample Name: MW-4	Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	91.2	80-120	---
Toluene-d8	8260b	105	88-110	---

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



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Client: Environmental Tech Group
Attn: Camille Reynolds
Address: 2540 W. Marland
Hobbs NM 88240

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

Report#/Lab ID#: 146880 Report Date: 09/09/03
Project ID: EO 2021
Sample Name: South Windmill
Sample Matrix: water
Date Received: 09/03/2003 Time: 14:05
Date Sampled: 09/02/2003 Time: 14:30

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		09/09/03	8260b	---	---	---	---	---
Benzene	<1	µg/L	1	<1	09/09/03	8260b	---	3	85	86.2	86.9
Ethylbenzene	<1	µg/L	1	<1	09/09/03	8260b	---	2.3	105.7	105.5	105.1
m,p-Xylenes	<1	µg/L	1	<1	09/09/03	8260b	---	2.4	107.4	106.2	106.6
o-Xylene	<1	µg/L	1	<1	09/09/03	8260b	---	2.9	104.5	103.8	105.6
Toluene	<1	µg/L	1	<1	09/09/03	8260b	---	0.2	100.3	98.2	100.2

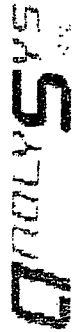
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Richard Laster

Richard Laster

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Client: Environmental Tech Group	Project ID: EO 2021	Report#/Lab ID#: 146880
Attn: Camille Reynolds	Sample Name: South Windmill	Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	92.9	80-120	---
Toluene-d8	8260b	103	88-110	---

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

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Bill to (if different):

Company Name ECH

Address _____

City _____ State _____ Zip _____

ATTN:

Phone _____ Fax _____

2

Justin Frick

[illegible][illegible]

Sample Relinquished By			Sample Received By		
Name	Affiliation	Date	Name	Affiliation	Date
Justin Frank	STGL	9-2-01	E. Zlot	ASZ	9-3-03

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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Camille Reynolds
Address: 2540 W. Marland
Hobbs NM 88240

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

Report#/Lab ID#: 150561 **Report Date:** 12/15/03
Project ID: EO2021 97-16
Sample Name: MW-1
Sample Matrix: water
Date Received: 12/09/2003 **Time:** 15:00
Date Sampled: 12/02/2003 **Time:** 11:30

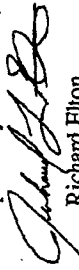
REPORT OF ANALYSIS

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	---		---		12/11/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	12/11/03	8260b	---	0.8	87.3	89	93.4
Ethylbenzene	<1	µg/L	1	<1	12/11/03	8260b	---	3	104.3	112.2	108.2
m,p-Xylenes	<2	µg/L	2	<2	12/11/03	8260b	---	3.3	106.4	114.1	109
o-Xylene	<1	µg/L	1	<1	12/11/03	8260b	---	2.5	110.1	119.2	115.4
Toluene	<1	µg/L	1	<1	12/11/03	8260b	---	0.7	89.6	96	98.8

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Respectfully Submitted,



Richard Elton

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QUEST

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group Attn: Camille Reynolds	Project ID: EO2021 97-16 Sample Name: MW-1	Report#/Lab ID#: 150561 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	101	88-110	--

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



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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Camille Reynolds
Address: 2540 W. Mariland
Hobbs NM 88240
Phone: 505 397-4882 **FAX:** 505 397-4701

Report#/Lab ID#: 150562 **Report Date:** 12/15/03
Project ID: EO2021 97-16
Sample Name: MW-2
Sample Matrix: water
Date Received: 12/09/2003 **Time:** 15:00
Date Sampled: 12/02/2003 **Time:** 12:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX					12/11/03	8260b(5030/5035)					
Benzene	<1	µg/L	1	<1	12/11/03	8260b		0.8	87.3	89	93.4
Ethylbenzene	<1	µg/L	1	<1	12/11/03	8260b		3	104.3	112.2	108.2
m,p-Xylenes	<2	µg/L	2	<2	12/11/03	8260b		3.3	106.4	114.1	109
o-Xylene	<1	µg/L	1	<1	12/11/03	8260b		2.5	110.1	119.2	115.4
Toluene	<1	µg/L	1	<1	12/11/03	8260b		0.7	89.6	96	98.8

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Respectfully Submitted,

Richard Elton

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3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group	Project ID: EO2021 97-16	Report#/Lab ID#: 150562
Attn: Camille Reynolds	Sample Name: MW-2	Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	103	80-120	---
Toluene-d8	8260b	101	88-110	---

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



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Client: Environmental Tech Group
Attn: Camille Reynolds
Address: 2540 W. Marland
Hobbs NM 88240
Phone: 505 397-4882 **FAX:** 505 397-4701

Report# / Lab ID#: 150563 **Report Date:** 12/15/03
Project ID: EO2021 97-16
Sample Name: MW-3
Sample Matrix: water
Date Received: 12/09/2003 **Time:** 15:00
Date Sampled: 12/02/2003 **Time:** 12:30

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		12/11/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	12/11/03	8260b	---	0.8	87.3	89	93.4
Ethylbenzene	<1	µg/L	1	<1	12/11/03	8260b	---	3	104.3	112.2	108.2
m,p-Xylenes	<2	µg/L	2	<2	12/11/03	8260b	---	3.3	106.4	114.1	109
o-Xylene	<1	µg/L	1	<1	12/11/03	8260b	---	2.5	110.1	119.2	115.4
Toluene	<1	µg/L	1	<1	12/11/03	8260b	---	0.7	89.6	96	98.8

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Respectfully Submitted,


Richard Elton

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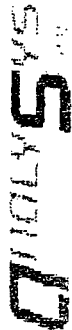
3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group	Project ID: EO2021 97-16	Report#/Lab ID#: 150563
Attn: Camille Reynolds	Sample Name: MW-3	Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	103	80-120	---
Toluene-d8	8260b	101	88-110	---

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



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Client: Environmental Tech Group
Attn: Camille Reynolds
Address: 2540 W. Marland
Hobbs NM 88240
Phone: 505 397-4882 FAX: 505 397-4701

Report#/Lab ID#: 150564 Report Date: 12/15/03
Project ID: EO2021 97-16
Sample Name: MW-4
Sample Matrix: water
Date Received: 12/09/2003 Time: 15:00
Date Sampled: 12/02/2003 Time: 13:00

REPORT OF ANALYSIS

QUALITY ASSURANCE DATA¹

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatile organics-8260b/BTEX	---		---		12/11/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	12/11/03	8260b	---	0.8	87.3	89	93.4
Ethylbenzene	<1	µg/L	1	<1	12/11/03	8260b	---	3	104.3	112.2	108.2
m,p-Xylenes	<2	µg/L	2	<2	12/11/03	8260b	---	3.3	106.4	114.1	109
o-Xylene	<1	µg/L	1	<1	12/11/03	8260b	---	2.5	110.1	119.2	115.4
Toluene	<1	µg/L	1	<1	12/11/03	8260b	---	0.7	89.6	96	98.8

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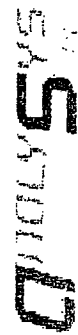
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2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group	Project ID: EO2021 97-16	Report#/Lab ID#: 150564
Attn: Camille Reynolds	Sample Name: MW-4	Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	104	80-120	--
Toluene-d8	8260b	101	88-110	--

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



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(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group
Attn: Camille Reynolds
Address: 2540 W. Marland
Hobbs NM 88240
Phone: 505 397-4882 FAX: 505 397-4701

Report# Lab ID#: 150565 Report Date: 12/15/03
Project ID: EO2021 97-16
Sample Name: Windmill
Sample Matrix: water
Date Received: 12/09/2003 Time: 15:00
Date Sampled: 12/02/2003 Time: 13:30

REPORT OF ANALYSIS

Parameter	Result	Units	RQL ⁵	Blank	Date	Method ⁶	Data Qual ⁷	Prec. ²	Recov. ³	CCV ⁴	LCS ⁴
Volatiles organics-8260b/BTEX	---		---		12/11/03	8260b(5030/5035)	---	---	---	---	---
Benzene	<1	µg/L	1	<1	12/11/03	8260b	---	0.8	87.3	89	93.4
Ethylbenzene	<1	µg/L	1	<1	12/11/03	8260b	---	3	104.3	112.2	108.2
m,p-Xylenes	<2	µg/L	2	<2	12/11/03	8260b	---	3.3	106.4	114.1	109
o-Xylene	<1	µg/L	1	<1	12/11/03	8260b	---	2.5	110.1	119.2	115.4
Toluene	<1	µg/L	1	<1	12/11/03	8260b	---	0.7	89.6	96	98.8

QUALITY ASSURANCE DATA¹

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7/10/03

3512 Montopolis Drive, Austin, TX 78744 &
2209 N. Padre Island Dr., Corpus Christi, TX 78408
(512) 385-5886 • FAX (512) 385-7411

Client: Environmental Tech Group	Project ID: EO2021 97-16	Report#/Lab ID#: 150565
Attn: Camille Reynolds	Sample Name: Windmill	Sample Matrix: water

REPORT OF SURROGATE RECOVERY

Surrogate Compound	Method	Recovery	Recovery Limit	Data Qualifiers
1,2-Dichloroethane-d4	8260b	107	80-120	---
Toluene-d8	8260b	101	88-110	---

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

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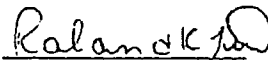
E.T.G.I.
ATTN: KEN DUTTON
2540 W. MARLAND
HOBBS, NM 88240
FAX: 505-397-4701

Sample Type: Soil
Sample Condition: Intact/ Iced/ 2.0 deg C
Project Name: TNM 97-16
Project #: EOT 2021C
Project Location: Lea Co., NM

Sampling Date: See Below
Receiving Date: 12/03/01
Analysis Date: 12/03/01

ELT #	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg	SAMPLE DATE
0102117-01	Stockpile Sample #1	<10	502	11/26/01
0102117-02	Stockpile Sample #2	<10	752	11/26/01
0102117-03	Stockpile Sample #3	<10	1400	11/29/01
0102117-04	Stockpile Sample #4	<10	1320	11/29/01
0102117-05	Stockpile Sample #5	<10	1150	11/30/01
0102117-06	Stockpile Sample #6	<10	1360	11/30/01
0102117-07	Pit Sample S.E. Corner #1	<10	153	12/01/01
0102117-08	Pit Sample S.W. Corner #2	<10	48	12/01/01
0102117-09	Pit Sample N.W. Corner #3	<10	<10	12/01/01
0102117-10	Pit Sample N.E. Corner #4	<10	42	12/01/01
0102117-11	Pit Sample Far North Point	<10	62	12/01/01
0102117-12	N.E. Quad-Landfarm #1	<10	451	12/01/01
0102117-13	S.E. Quad -Landfarm #2	<10	388	12/01/01
0102117-14	S.W. Quad-Landfarm #3	<10	259	12/01/01
QUALITY CONTROL		478	580	
TRUE VALUE		500	500	
% INSTRUMENT ACCURACY		96	112	
SPIKED AMOUNT		476	476	
ORIGINAL SAMPLE		<10	752	
SPIKE		434	1350	
SPIKE DUP		440	1380	
% EXTRACTION ACCURACY		91	126	
BLANK		<10	<10	
RPD		1.37	2.2	

Methods: SW 846-8015M


Roland K. Tuttle

12-04-01
Date

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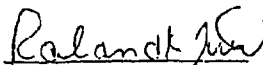
E.T.G.I.
ATTN: KEN DUTTON
2540 W. MARLAND
HOBBS, NM 88240
FAX: 505-397-4701

Sample Type: Soil
Sample Condition: Intact/ Iced/ 2.0 deg C
Project Name: TNM 97-16
Project #: EOT 2021C
Project Location: Lea Co., NM

Sampling Date: See Below
Receiving Date: 12/03/01
Analysis Date: 12/03/01

ELT#	FIELD CODE	Chloride mg/kg	SAMPLE DATE
0102117-01	Stockpile Sample #1	142	11/26/01
0102117-02	Stockpile Sample #2	168	11/26/01
0102117-03	Stockpile Sample #3	160	11/29/01
0102117-04	Stockpile Sample #4	195	11/29/01
0102117-05	Stockpile Sample #5	186	11/30/01
0102117-06	Stockpile Sample #6	149	11/30/01
0102117-07	Pit Sample S.E. Corner #1	26	12/01/01
0102117-08	Pit Sample S.W. Corner #2	26	12/01/01
0102117-09	Pit Sample N.W. Corner #3	35	12/01/01
0102117-10	Pit Sample N.E. Corner #4	71	12/01/01
0102117-11	Pit Sample Far North Point	408	12/01/01
0102117-12	N.E. Quad-Landfarm #1	89	12/01/01
0102117-13	S.E. Quad -Landfarm #2	160	12/01/01
0102117-14	S.W. Quad-Landfarm #3	53	12/01/01
QUALITY CONTROL		5050	
TRUE VALUE		5000	
% INSTRUMENT ACCURACY		101	
SPIKED AMOUNT		500	
ORIGINAL SAMPLE		115	
SPIKE		620	
SPIKE DUP		620	
% EXTRACTION ACCURACY		101	
BLANK		<5.00	
RPD		0.0	

Methods: SW 846-9253


Ralank K. Tuttle

12-04-01
Date

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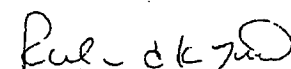
E.T.G.I.
ATTN: KEN DUTTON
2540 W. MARLAND
HOBBS, NM 88240
FAX: 505-397-4701

Sample Type: Soil
Sample Condition: Intact/ Iced/ 2.0 deg C
Project Name: TNM 97-16
Project #: EOT 2021C
Project Location: Lea County, NM

Sampling Date: See Below
Receiving Date: 12/03/01
Analysis Date: 12/03/01

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg	SAMPLE DATE
0102117-01	Stockpile Sample #1	<0.025	0.027	<0.025	<0.025	<0.025	11/26/01
0102117-02	Stockpile Sample #2	<0.025	<0.025	<0.025	<0.025	<0.025	11/26/01
0102117-03	Stockpile Sample #3	<0.025	0.025	<0.025	<0.025	<0.025	11/29/01
0102117-04	Stockpile Sample #4	<0.025	0.034	<0.025	<0.025	<0.025	11/29/01
0102117-05	Stockpile Sample #5	<0.025	0.037	<0.025	<0.025	<0.025	11/30/01
0102117-06	Stockpile Sample #6	<0.025	<0.025	<0.025	<0.025	<0.025	11/30/01
0102117-07	Pit Sample S.E. Corner #1	<0.025	0.054	<0.025	<0.025	<0.025	12/01/01
0102117-08	Pit Sample S.W. Corner #2	<0.025	<0.025	<0.025	<0.025	<0.025	12/01/01
0102117-09	Pit Sample N.W. Corner #3	<0.025	<0.025	<0.025	<0.025	<0.025	12/01/01
0102117-10	Pit Sample N.E. Corner #4	<0.025	<0.025	<0.025	<0.025	<0.025	12/01/01
0102117-11	Pit Sample Far North Point	<0.025	<0.025	<0.025	<0.025	<0.025	12/01/01
0102117-12	N.E. Quad-Landfarm #1	<0.025	<0.025	<0.025	<0.025	<0.025	12/01/01
0102117-13	S.E. Quad-Landfarm #2	<0.025	<0.025	<0.025	<0.025	<0.025	12/01/01
0102117-14	S.W. Quad-Landfarm #3	<0.025	<0.025	<0.025	<0.025	<0.025	12/01/01
QUALITY CONTROL		0.085	0.088	0.088	0.182	0.085	
TRUE VALUE		0.100	0.100	0.100	0.200	0.100	
% JA		85	88	88	91	85	
SPIKED AMOUNT		0.100	0.100	0.100	0.200	0.100	
ORIGINAL SAMPLE		<0.025	<0.025	<0.025	<0.025	<0.025	
SPIKE		0.092	0.093	0.098	0.202	0.096	
SPIKE DUP		0.091	0.092	0.096	0.200	0.095	
%EA		91	92	96	100	95	
BLANK		<0.025	<0.025	<0.025	<0.025	<0.025	
RPD		1.09	1.08	2.06	1.00	1.05	

METHODS: EPA SW 846-8021B ,5030


Randal K. Tuttle

12-04-01
Date

Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: KEN DUTTON

Project Name: TH 97-16

Company Name **ETGI**

Project #: LOT 2021C

Company Address: 2540 W. HARLAND

Project Loc: LEA COUNTY, NM

City/State/Zip: WOBBS NY 88240

送

Telephone No: (505) 397-4882

Fax No: (505) 397-4701

Sampler Signature:

March Camp

SAMPLER SIGNATURE: <u>Marcus J. Dwyer</u>		FIELD CODE		Date Sampled	Time Sampled	No. of Containers	PRESERVATIVE							MATRIX				ANALYZE FOR:					Standard TAT		
LAB # (list-use only)							ICE	LIND.	HCl	NaOH	H ₂ O ₂	None	Other (Specify)	Water	Sediment	Soil	TDS (CL) SR / EC	TPH 418 I	TPH TX 1005/1006	TPH 8015M GR/DRO	Metals As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RUSH TAT (Pre-Schedule)
010247-01	Stackpile Sample #1	11-26-01	1200	1	X												X								X
02	Stackpile Sample #2	11-26-01	1500	1																					
03	Stackpile Sample #3	11-29-01	1230	1																					
04	Stackpile Sample #4	11-29-01	1630	1																					
05	Stackpile Sample #5	11-30-01	1300	1																					
06	Stackpile Sample #6	11-30-01	1630	1																					
07	Pit Sample S.E. corner #1	12-01-01	1200	1																					
08	Pit Sample S.W. corner #2	12-01-01	1210	1																					
09	Pit Sample N.W. corner #3	12-01-01	1220	1																					
10	Pit Sample N.E. corner #4	12-01-01	1230	1																					

Relinquished by: <u>Marcus J. Dwyer</u>	Date 12/2/01	Time 0600	Received by: <u>Jane Munnery</u>	Date 12/3/01	Time 0830
Relinquished by: <u>Jane Munnery</u>	Date 12/3/01	Time 0830	Received by: ELOI	Date 12/3/01	Time 0830

Special Instructions:

Sample Containers Intact? (X)
Temperature Upon Receipt _____
Laboratory Comments: Rec - 2.0°C

LOC: 202

102

FILE

ANALYTICAL REPORT

Prepared for:

**KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240**

Project: TNM 97-16

Order#: G0203494

Report Date: 06/06/2002

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240
505-397-4701

Order#: G0203494
Project: EOT 2021C
Project Name: TNM 97-16
Location: Lea County, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

Lab ID:	Sample :	Matrix:	Date / Time	Date / Time	Container	Preservative
			Collected	Received		
0203494-01	Excavation Wall South	SOIL	6/3/02 10:15	6/3/02 13:10	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 1.5 C		
	8015M					
	8021B/5030 BTEX					
0203494-02	Excavation Wall North	SOIL	6/3/02 10:29	6/3/02 13:10	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 1.5 C		
	8015M					
	8021B/5030 BTEX					
0203494-03	Excavation Wall East	SOIL	6/3/02 9:47	6/3/02 13:10	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 1.5 C		
	8015M					
	8021B/5030 BTEX					
0203494-04	Excavation Wall West	SOIL	6/3/02 9:30	6/3/02 13:10	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 1.5 C		
	8015M					
	8021B/5030 BTEX					
0203494-05	Excavation Bottom South	SOIL	6/3/02 11:10	6/3/02 13:10	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 1.5 C		
	8015M					
	8021B/5030 BTEX					
0203494-06	Excavation Bottom Middle	SOIL	6/3/02 10:49	6/3/02 13:10	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 1.5 C		
	8015M					
	8021B/5030 BTEX					
0203494-07	Excavation Bottom North	SOIL	6/3/02 11:40	6/3/02 13:10	4 oz glass	Ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 1.5 C		
	8015M					

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240
505-397-4701

Order#: G0203494
Project: EOT 2021C
Project Name: TNM 97-16
Location: Lea County, NM

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
	8021B/5030 BTEX					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0203494
Project: EOT 2021C
Project Name: TNM 97-16
Location: Lea County, NM

Lab ID: 0203494-01
Sample ID: Excavation Wall South

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
		6/3/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	44.4	10.0
DRO, >C12-C35	202	10.0
TOTAL, C6-C35	246	10.0

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0001892-02		6/5/02	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203494-02
Sample ID: Excavation Wall North

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
		6/3/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 7

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0203494
Project: EOT 2021C
Project Name: TNM 97-16
Location: Lea County, NM

Lab ID: 0203494-02
Sample ID: Excavation Wall North

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0001892-02		6/5/02	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203494-03
Sample ID: Excavation Wall East

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		6/3/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	18.4	10.0
DRO, >C12-C35	144	10.0
TOTAL, C6-C35	162	10.0

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G8203494
Project: EOT 2021C
Project Name: TNM 97-16
Location: Lea County, NM

Lab ID: 0203494-03
Sample ID: Excavation Wall East

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution		
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0001892-02		6/5/02	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203494-04
Sample ID: Excavation Wall West

8015M

Method	Date	Date	Sample	Dilution		
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		6/3/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	34.0	10.0
TOTAL, C6-C35	34.0	10.0

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0203494
Project: EOT 2021C
Project Name: TNM 97-16
Location: Lea County, NM

Lab ID: 0203494-04
Sample ID: Excavation Wall West

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0001892-02		6/5/02	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203494-05
Sample ID: Excavation Bottom South

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		6/3/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	60.6	10.0
TOTAL, C6-C35	60.6	10.0

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0203494
Project: EOT 2021C
Project Name: TNM 97-16
Location: Lea County, NM

Lab ID: 0203494-05
Sample ID: Excavation Bottom South

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0001892-02		6/5/02	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203494-06
Sample ID: Excavation Bottom Middle

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		6/3/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	10.3	10.0
DRO, >C12-C35	88.0	10.0
TOTAL, C6-C35	98.3	10.0

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0203494
Project: EOT 2021C
Project Name: TNM 97-16
Location: Lea County, NM

Lab ID: 0203494-06
Sample ID: Excavation Bottom Middle

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0001892-02		6/5/02	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Lab ID: 0203494-07
Sample ID: Excavation Bottom North

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		6/3/02	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	10.5	10.0
DRO, >C12-C35	66.8	10.0
TOTAL, C6-C35	77.3	10.0

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

KEN DUTTON
Environmental Technology Group, Inc.
2540 W. MARLAND
HOBBS, NM 88240

Order#: G0203494
Project: EOT 2021C
Project Name: TNM 97-16
Location: Lea County, NM

Lab ID: 0203494-07
Sample ID: Excavation Bottom North

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0001892-02		6/5/02	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Ethylbenzene	<0.025	0.025
Toluene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Approval:

Roland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

Date

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0203494

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0001871-02			<10.0		
CONTROL	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0001871-03		952	1070	112.4%	
CONTROL DUP	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0001871-04		952	1050	110.3%	1.9%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0001871-05		1000	1090	109.0%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0203494

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0001892-02			<0.025		
Ethylbenzene-mg/kg		0001892-02			<0.025		
Toluene-mg/kg		0001892-02			<0.025		
p/m-Xylene-mg/kg		0001892-02			<0.025		
o-Xylene-mg/kg		0001892-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0203490-07	0	0.1	0.099	99.%	
Ethylbenzene-mg/kg		0203490-07	0	0.1	0.096	96.%	
Toluene-mg/kg		0203490-07	0	0.1	0.093	93.%	
p/m-Xylene-mg/kg		0203490-07	0	0.2	0.190	95.%	
o-Xylene-mg/kg		0203490-07	0	0.1	0.096	96.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0203490-07	0	0.1	0.105	105.%	5.9%
Ethylbenzene-mg/kg		0203490-07	0	0.1	0.102	102.%	6.1%
Toluene-mg/kg		0203490-07	0	0.1	0.099	99.%	6.3%
p/m-Xylene-mg/kg		0203490-07	0	0.2	0.202	101.%	6.1%
o-Xylene-mg/kg		0203490-07	0	0.1	0.102	102.%	6.1%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0001892-05		0.1	0.100	100.%	
Ethylbenzene-mg/kg		0001892-05		0.1	0.095	95.%	
Toluene-mg/kg		0001892-05		0.1	0.093	93.%	
p/m-Xylene-mg/kg		0001892-05		0.2	0.188	94.%	
o-Xylene-mg/kg		0001892-05		0.1	0.096	96.%	



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

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

2540 West Marland
Hobbs, NM 88242
Tel (505) 397-4882
Fax (505) 397-4701

4600 West Wall
Midland, TX 79703
Tel (915) 522-1139
Fax (915) 520-4310

Project Manager:

Ken Dutton

Project Number:

COF 2021C

Sampler Signature:

Subject: Family Case

Project Location:

LES COUNTY NM

[illegible]

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST
Circle or Specify Method No.)

BTEX 80218/5000	X	
TPH 418.1/TX 1005		
TPH 8015M GRO/DRO	X	
PAH 8270C (8100 New Mexico only)		
Total Metals Ag As Ba Cd Cr Pb Se Hg 60108/470		
TCLP Metals Ag As Ba Cd Cr Pb Se Hg		
TCLP Volatiles		
TCLP Semi Volatiles		
Volatiles 8260B		
Semi Volatiles 9270C		
TDS 160.1		
Cations/Anions 375.4/326.3		

REMARKS:

Received by:	Date:	Time:
--------------	-------	-------

FAIR RESULTS TO HUBBS OFFICE

1.5°C

Delivered by: _____ Date: _____ Time: _____

Relinquished by: James Cass Date: 6/3/82 Time: 1305

Relinquished by: _____ Date: _____ Time: _____

Received at Lab by:

Date: _____ Time: _____

Donald Page 6/3/02 1310

FILE

ANALYTICAL REPORT

Prepared for:

**Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240**

Project: TNM 9716

PO#:

Order#: G0306302

Report Date: 04/22/2003

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS**SAMPLE WORK LIST**

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240
505/397/4701

Order#: G0306302
Project: EO 2021
Project Name: TNM 9716
Location: Lea County

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0306302-01	Middle East Wall Exc.	SOIL	4/17/03 10:48	4/18/03 16:34	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp: 6.0 C		
0306302-02	SE Wall Exc.	SOIL	4/17/03 11:09	4/18/03 16:34	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp: 6.0 C		
0306302-03	NE Wall Exc.	SOIL	4/17/03 10:31	4/18/03 16:34	4 oz glass	Ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp: 6.0 C		

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0306302
Project: EO 2021
Project Name: TNM 9716
Location: Lea County

Lab ID: 0306302-01
Sample ID: Middle East Wall Exc.

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		4/21/03	1	1	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	106	10.0
TOTAL, C6-C35	106	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	87%	70	130
1-Chlorooctadecane	78%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0005278-02		4/21/03 20:09	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	93%	80	120
Bromofluorobenzene	91%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 3

ENVIRONMENTAL LAB OF TEXAS I, LTD. 12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0306302
Project: EO 2021
Project Name: TNM 9716
Location: Lea County

Lab ID: 0306302-02
Sample ID: SE Wall Exc.

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		4/21/03	1	1	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	308	10.0
TOTAL, C6-C35	308	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	88%	70	130
1-Chlorooctadecane	83%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0005278-02		4/21/03 20:28	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	89%	80	120
Bromofluorobenzene	90%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 2 of 3

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0306302
Project: EO 2021
Project Name: TNM 9716
Location: Lea County

Lab ID: 0306302-03
Sample ID: NE Wall Exc.

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		4/21/03	1	1	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	66.9	10.0
TOTAL, C6-C35	66.9	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	92%	70	130
1-Chlorooctadecane	82%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0005278-02		4/21/03 20:47	1	25	CK	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	88%	80	120
Bromofluorobenzene	89%	80	120

Approval:

Roland K. Tuttle 4-23-03
 Roland K. Tuttle, Lab Director, QA Officer
 Caley D. Keene, Org. Tech. Director
 Jeanne McMurrey, Inorg. Tech. Director
 Sandra Biczugbe, Lab Tech.
 Sara Molina, Lab Tech.

Date

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 3 of 3

ENVIRONMENTAL LAB OF TEXAS**QUALITY CONTROL REPORT****8015M****Order#: G0306302**

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005277-02			<10.0		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005277-03		1000	921	92.1%	
CONTROL DUP SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005277-04		1000	895	89.5%	2.9%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005277-05		1000	765	76.5%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0306302

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0005278-02			<0.025		
Toluene-mg/kg		0005278-02			<0.025		
Ethylbenzene-mg/kg		0005278-02			<0.025		
p/m-Xylene-mg/kg		0005278-02			<0.025		
o-Xylene-mg/kg		0005278-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0306309-02	0	0.1	0.108	108.%	
Toluene-mg/kg		0306309-02	0	0.1	0.105	105.%	
Ethylbenzene-mg/kg		0306309-02	0	0.1	0.102	102.%	
p/m-Xylene-mg/kg		0306309-02	0	0.2	0.211	105.5%	
o-Xylene-mg/kg		0306309-02	0	0.1	0.102	102.%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0306309-02	0	0.1	0.099	99.%	8.7%
Toluene-mg/kg		0306309-02	0	0.1	0.096	96.%	9.%
Ethylbenzene-mg/kg		0306309-02	0	0.1	0.093	93.%	9.2%
p/m-Xylene-mg/kg		0306309-02	0	0.2	0.191	95.5%	10.%
o-Xylene-mg/kg		0306309-02	0	0.1	0.093	93.%	9.2%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0005278-05		0.1	0.102	102.%	
Toluene-mg/kg		0005278-05		0.1	0.097	97.%	
Ethylbenzene-mg/kg		0005278-05		0.1	0.092	92.%	
p/m-Xylene-mg/kg		0005278-05		0.2	0.189	94.5%	
o-Xylene-mg/kg		0005278-05		0.1	0.092	92.%	

Environmental Lab of Texas, Inc.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Coc # 38

Project Manager: Carmille Reynolds
Company Name: ETGI
Company Address: 2540 W. MARLBOROUGH
City/State/Zip: HOBBS NM.
Telephone No: (505) 397-4832 Fax No: (505) 397-4701
Sampler Signature: Carmille Reynolds
Project Name: TRM 9716
Project #: 502021
Project Loc: LEA County
PO #: _____

LAB # (lab use only)		FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative							Matrix				Analyze For							
						Ice	HNO ₃	HCl	NaOH	H ₂ SO ₄	None	Other (Specify)	Water	Sludge	Soil	Other (specify)	TOC / CL / SAR / EC	TPH 413.1	TPH TX 1005/1006	TPH AD 1514 (BR)/CRO	Metals As Ag Ba Cd Cr Pb Hg Se	Volatiles	Terminations	ATEX 1021/10030
03009302																								
01		MIDDLE DIRT WALL EXC.	4/17/03	10:48	1	X																		
02		SE WALL EXC.	4/17/03	11:09	1	X																		
03		NE WALL EXC.	4/17/03	10:31	1	X																		

Special Instructions:

Relinquished by: Carmille Reynolds Date: 4-18-03 Time: 13:30 Received by: Elmer Jackson Date: 4-18-03 Time: 16:31

Relinquished by: Elmer Jackson Date: 4-18-03 Time: 16:31 Received by: James McManis Date: 4-18-03 Time: 16:31

Sample Containers intact? Y
Temperature User Received? 6.0 C
Laboratory Comments: _____

FILE

ANALYTICAL REPORT

Prepared for:

**Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240**

Project: TNM 97-16

PO#:

Order#: G0307385

Report Date: 09/10/2003

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240
505/397/4701

Order#: G0307385
Project: EO2021
Project Name: TNM 97-16
Location: Lea County, N.M.

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

Lab ID:	Sample :	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
0307385-01	H.A. GP-10 Area 2'	SOIL	9/4/2003 9:00	9/5/2003 9:30	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp: 2.5 C		
0307385-02	H.A. GP-10 Area 4'	SOIL	9/4/2003 9:15	9/5/2003 9:30	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp: 2.5 C		
0307385-03	H.A. GP-10 Area 6'	SOIL	9/4/2003 9:39	9/5/2003 9:30	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp: 2.5 C		
0307385-04	H.A. GP-10 Area 8'	SOIL	9/4/2003 10:10	9/5/2003 9:30	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp: 2.5 C		
0307385-05	H.A. GP-2 Area 2'	SOIL	9/4/2003 11:00	9/5/2003 9:30	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp: 2.5 C		
0307385-06	H.A. GP-2 Area 4'	SOIL	9/4/2003 11:15	9/5/2003 9:30	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp: 2.5 C		
0307385-07	H.A. GP-2 Area 6'	SOIL	9/4/2003 11:38	9/5/2003 9:30	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 2.5 C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240
505/397/4701

Order#: G0307385
Project: EO2021
Project Name: TNM 97-16
Location: Lea County, N.M.

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
	8015M 8021B/5030 BTEX					
0307385-08	H.A. GP-2 Area 8'	SOIL	9/4/2003 12:02	9/5/2003 9:30	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 2.5 C		
	8015M 8021B/5030 BTEX					
0307385-09	H.A. GP-2 Area 10'	SOIL	9/4/2003 12:30	9/5/2003 9:30	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 2.5 C		
	8015M 8021B/5030 BTEX					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307385
Project: EO2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307385-01
Sample ID: H.A. GP-10 Area 2'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/5/2003	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	34.7	10.0
TOTAL, C6-C35	34.7	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	106%	70	130
1-Chlorooctadecane	127%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0006744-02		9/5/2003	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	96%	80	120
Bromofluorobenzene	82%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS I, LTD.

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: C0307385
Project: EO2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307385-02
Sample ID: H.A. GP-10 Area 4'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		9/5/2003	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	108%	70	130
1-Chlorooctadecane	127%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0006744-02		9/5/2003	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	99%	80	120
Bromofluorobenzene	80%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307385
Project: EO2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307385-03
Sample ID: H.A. GP-10 Area 6'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
		9/5/03	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	12.6	10.0
DRO, >C12-C35	153	10.0
TOTAL, C6-C35	166	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	112%	70	130
1-Chlorooctadecane	130%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0006744-02		9/5/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	0.036	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	98%	80	120
Bromofluorobenzene	87%	80	120

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307385
Project: EO2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307385-04
Sample ID: H.A. GP-10 Area 8'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
		9/5/2003	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	15.7	10.0
DRO, >C12-C35	177	10.0
TOTAL, C6-C35	193	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	115%	70	130
1-Chlorooctadecane	129%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0006744-02		9/5/2003	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	0.037	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	94%	80	120
Bromofluorobenzene	86%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307385
Project: EO2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307385-05
Sample ID: H.A. GP-2 Area 2'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		9/5/2003	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	132	10.0
TOTAL, C6-C35	132	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	112%	70	130
1-Chlorooctadecane	128%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0006744-02		9/5/2003	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	97%	80	120
Bromofluorobenzene	81%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS, LTD.

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307385
Project: EO2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307385-06
Sample ID: H.A. GP-2 Area 4'

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/5/2003	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	51.0	10.0
TOTAL, C6-C35	51.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	107%	70	130
1-Chlorooctadecane	128%	70	130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0006744-02		9/5/2003	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	96%	80	120
Bromofluorobenzene	81%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307385
Project: EO2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307385-07
Sample ID: H.A. GP-2 Area 6'

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		9/5/2003	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	107%	70	130
1-Chlorooctadecane	127%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0006744-02		9/5/2003	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	89%	80	120
Bromofluorobenzene	85%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307385
Project: EO2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307385-08
Sample ID: H.A. GP-2 Area 8'

8015M

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
		9/5/2003	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	10.6	10.0
DRO, >C12-C35	112	10.0
TOTAL, C6-C35	123	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	114%	70	130
1-Chlorooctadecane	128%	70	130

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0006744-02		9/5/2003	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	95%	80	120
Bromofluorobenzene	88%	80	120

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307385
Project: EO2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307385-09
Sample ID: H.A. GP-2 Area 10'

8015M

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
		9/5/2003	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	61.2	10.0
TOTAL, C6-C35	61.2	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	107%	70	130
1-Chlorooctadecane	126%	70	130

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0006744-02		9/5/2003	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	98%	80	120
Bromofluorobenzene	89%	80	120

Approval: Sara McMurray 09-11-03
 Randal K. Tuttle, Lab Director, QA Officer Date
 Celey D. Keene, Org. Tech. Director
 Jeanne McMurray, Inorg. Tech. Director
 Sandra Biezugbe, Lab Tech.
 Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0307385

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0006711-02			<10.0		
CONTROL	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0006711-03		952	912	95.8%	
CONTROL DUP	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0006711-04		952	892	93.7%	2.2%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0006711-05		1000	1061	106.1%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0307385

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0006744-02			<0.025		
Toluene-mg/kg		0006744-02			<0.025		
Ethylbenzene-mg/kg		0006744-02			<0.025		
p/m-Xylene-mg/kg		0006744-02			<0.025		
o-Xylene-mg/kg		0006744-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0307385-01	0	2.5	1.99	79.6%	
Toluene-mg/kg		0307385-01	0	2.5	2.01	80.4%	
Ethylbenzene-mg/kg		0307385-01	0	2.5	2.14	85.6%	
p/m-Xylene-mg/kg		0307385-01	0	5	4.32	86.4%	
o-Xylene-mg/kg		0307385-01	0	2.5	2.17	86.8%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0307385-01	0	2.5	1.99	79.6%	0.0%
Toluene-mg/kg		0307385-01	0	2.5	1.99	79.6%	1.0%
Ethylbenzene-mg/kg		0307385-01	0	2.5	2.02	80.8%	5.8%
p/m-Xylene-mg/kg		0307385-01	0	5	4.09	81.8%	5.5%
o-Xylene-mg/kg		0307385-01	0	2.5	2.02	80.8%	7.2%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0006744-05		0.1	0.087	87.0%	
Toluene-mg/kg		0006744-05		0.1	0.087	87.0%	
Ethylbenzene-mg/kg		0006744-05		0.1	0.088	88.0%	
p/m-Xylene-mg/kg		0006744-05		0.2	0.178	89.0%	
o-Xylene-mg/kg		0006744-05		0.1	0.086	86.0%	

12600 West 1-20 East
Odessa, Texas 79763

Phone: 915-563-1800
Fax: 915-563-1713

Camille Reynolds
Fax: 915-563-1713

Project Manager

Company Name

Company Address:

88248

City/State/Zip:

505) 397-488a

Telephone No.

Sample Signature:

Doc # 689

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: TNM 97-16

Project #: 202021

Project Loc: Lea County, NM

॥ ०८ ॥

Sample Signature: [Signature]
 Date: 9-4-03
 Time: 3:09
 Location: Area 2
 Field Code: HA GP-10 Area 2
 Date Sampled: 9-4
 Time Sampled: 9:00
 No. of Containers: 1
 Matrix: Soil
 Preservative: None
 Analyze for: Asbestos
 Temperature: 25°C
 Comments: for glass

FILE

ANALYTICAL REPORT

Prepared for:

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Project: TNM 97-16

PO#:

Order#: G0307499

Report Date: 09/23/2003

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240
505/397/4701

Order#: G0307499
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time</u> <u>Collected</u>	<u>Date / Time</u> <u>Received</u>	<u>Container</u>	<u>Preservative</u>
0307499-01	Southeast Wall Excavation	SOIL	9/15/03 11:10	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 1.0 C		
	8015M					
	8021B/5030 BTEX					
0307499-02	Middle East Wall Excavation	SOIL	9/15/03 11:15	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 1.0 C		
	8015M					
	8021B/5030 BTEX					
0307499-03	South Wall Excavation	SOIL	9/15/03 11:23	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp: 1.0 C		
	8015M					
	8021B/5030 BTEX					

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307499
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307499-01
Sample ID: Southeast Wall Excavation

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
		9/19/03	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	105%	70	130
1-Chlorooctadecane	114%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>		
0006882-02		9/21/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	0.187	0.025
Ethylbenzene	0.557	0.025
p/m-Xylene	1.07	0.025
o-Xylene	0.627	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	87%	80	120
Bromofluorobenzene	99%	80	120

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

Page 1 of 3

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307499
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307499-02
Sample ID: Middle East Wall Excavation

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
		9/19/03	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	113%	70	130
1-Chlorooctadecane	100%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0006882-02		9/21/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	12%	80	120
Bromofluorobenzene	94%	80	120

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307499
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307499-03
Sample ID: South Wall Excavation

8015M

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
		9/19/03	1	1	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	58.5	10.0
TOTAL, C6-C35	58.5	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	115%	70	130
1-Chlorooctadecane	98%	70	130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution	Analyst	Method
Blank	Prepared	Analyzed	Amount	Factor		
0006882-02		9/21/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	0.033	0.025
Toluene	0.326	0.025
Ethylbenzene	0.872	0.025
p/m-Xylene	1.05	0.025
o-Xylene	0.667	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	91%	80	120
Bromofluorobenzene	82%	80	120

Approval: Raland K. Tuttle 9-23-03
 Raland K. Tuttle, Lab Director, QA Officer
 Celey D. Keene, Org. Tech. Director
 Jeanne McMurrey, Inorg. Tech. Director
 Sandra Biezugbe, Lab Tech.
 Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0307499

<i>BLANK</i>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0006884-02			<10.0		
<i>CONTROL</i>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0006884-03		952	827	86.9%	
<i>CONTROL DUP</i>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0006884-04		952	828	87.7%	0.1%
<i>SRM</i>	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0006884-05		1000	951	95.1%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0307499

BLANK	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0006882-02			<0.025		
Toluene-mg/kg		0006882-02			<0.025		
Ethylbenzene-mg/kg		0006882-02			<0.025		
p/m-Xylene-mg/kg		0006882-02			<0.025		
o-Xylene-mg/kg		0006882-02			<0.025		
MS	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0307499-02	0	2.5	2.30	92.0%	
Toluene-mg/kg		0307499-02	0	2.5	2.32	92.8%	
Ethylbenzene-mg/kg		0307499-02	0	2.5	2.29	91.6%	
p/m-Xylene-mg/kg		0307499-02	0	5	4.64	92.8%	
o-Xylene-mg/kg		0307499-02	0	2.5	2.21	88.4%	
MSD	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0307499-02	0	2.5	2.32	92.8%	0.9%
Toluene-mg/kg		0307499-02	0	2.5	2.30	92.0%	0.9%
Ethylbenzene-mg/kg		0307499-02	0	2.5	2.30	92.0%	0.4%
p/m-Xylene-mg/kg		0307499-02	0	5	4.67	93.4%	0.6%
o-Xylene-mg/kg		0307499-02	0	2.5	2.31	92.4%	4.4%
SRM	SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0006882-05		0.1	0.100	100.0%	
Toluene-mg/kg		0006882-05		0.1	0.097	97.0%	
Ethylbenzene-mg/kg		0006882-05		0.1	0.092	92.0%	
p/m-Xylene-mg/kg		0006882-05		0.2	0.185	92.5%	
o-Xylene-mg/kg		0006882-05		0.1	0.090	90.0%	

Fax: 915-583-1713

Sample Signature: Amber Kuykendall

Project Loc: Lea County, NM

100.

FIELD CODE		Date Sampled	Time Sampled	No. of Containers	Preservative							Matrix		Analyze for				
					ice	HNO ₃	HCl	NaOH	H ₂ SO ₄	lime	Other (Specify)	Water	Sludge	Soil	Other (Specify)	Trace Metals	Organics	Other
0307499	01	2003	1110	1	X									X		X		
	02		1115	1	X									X		X		
	03		1123	1	X									X		X		

Signature: _____

Special Instructions: _____

Requested by: Larnelle Reynolds

Received by: ED. JC

Date: 9-19-03

Time: 9:45

Received by: ED. JC

Date: 9-14

Time: 9:45

Received by: ED. JC

Date: 9-14

Time: 12:00

Sample Containers: 1 PC

Temperature Upon Receipt: see 1 PC

Laboratory Comments: _____

FILE

ANALYTICAL REPORT

Prepared for:

**Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240**

Project: TNM 97-16

PO#:

Order#: G0307501

Report Date: 09/29/2003

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240
505/397/4701

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time Collected</u>	<u>Date / Time Received</u>	<u>Container</u>	<u>Preservative</u>
0307501-01	LF-25	SOIL	9/15/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp 1.0 C		
0307501-02	LF-26	SOIL	9/15/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp 1.0 C		
0307501-03	LF-27	SOIL	9/15/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp 1.0 C		
0307501-04	LF-28	SOIL	9/15/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp 1.0 C		
0307501-05	LF-29	SOIL	9/15/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp 1.0 C		
0307501-06	LF-30	SOIL	9/15/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp 1.0 C		
0307501-07	LF-31	SOIL	9/15/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp 1.0 C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240
505/397/4701

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time Collected</u>	<u>Date / Time Received</u>	<u>Container</u>	<u>Preservative</u>
	8015M 8021B/5030 BTEX					
0307501-08	LF-32	SOIL	9/15/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp 1.0 C		
0307501-09	LF-33	SOIL	9/15/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp 1.0 C		
0307501-10	LF-34	SOIL	9/15/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp 1.0 C		
0307501-11	LF-35	SOIL	9/15/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp 1.0 C		
0307501-12	LF-36	SOIL	9/15/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp 1.0 C		
0307501-13	LF-37	SOIL	9/15/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp 1.0 C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240
505/397/4701

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time Collected</u>	<u>Date / Time Received</u>	<u>Container</u>	<u>Preservative</u>
0307501-14	LF-38	SOIL	9/15/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp 1.0 C		
0307501-15	LF-39	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp 1.0 C		
0307501-16	LF-40	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp 1.0 C		
0307501-17	LF-41	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp 1.0 C		
0307501-18	LF-42	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp 1.0 C		
0307501-19	LF-43	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp 1.0 C		
0307501-20	LF-44	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp 1.0 C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240
505/397/4701

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time Collected</u>	<u>Date / Time Received</u>	<u>Container</u>	<u>Preservative</u>
	8015M					
0307501-21	LF-45	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp 1.0 C		
	8015M					
0307501-22	LF-46	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp 1.0 C		
	8015M					
0307501-23	LF-47	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp 1.0 C		
	8015M					
0307501-24	LF-48	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp 1.0 C		
	8015M					
	8021B/5030 BTEX					
0307501-25	LF-49	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp 1.0 C		
	8015M					
	8021B/5030 BTEX					
0307501-26	LF-50	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp 1.0 C		
	8015M					
	8021B/5030 BTEX					
0307501-27	LF-51	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp 1.0 C		
	8015M					
	8021B/5030 BTEX					

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240
505/397/4701

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u>	<u>Sample :</u>	<u>Matrix:</u>	<u>Date / Time Collected</u>	<u>Date / Time Received</u>	<u>Container</u>	<u>Preservative</u>
0307501-28	LF-52	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp 1.0 C		
0307501-29	LF-53	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-30	LF-54	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-31	LF-55	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-32	LF-56	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-33	LF-57	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-34	LF-58	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-35	LF-59	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp 1.0 C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240
505/397/4701

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

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	8015M					
0307501-36	LF-60	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp 1.0 C		
	8015M					
	8021B/5030 BTEX					
0307501-37	LF-61	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp 1.0 C		
	8015M					
0307501-38	LF-62	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp 1.0 C		
	8015M					
0307501-39	LF-63	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp 1.0 C		
	8015M					
0307501-40	LF-64	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp 1.0 C		
	8015M					
0307501-41	LF-65	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp 1.0 C		
	8015M					
0307501-42	LF-66	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u>	Rejected: No		Temp 1.0 C		
	8015M					
	8021B/5030 BTEX					

ENVIRONMENTAL LAB OF TEXAS

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0307501-43	LF-67	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-44	LF-68	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-45	LF-69	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-46	LF-70	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-47	LF-71	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-48	LF-72	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-49	LF-73	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-50	LF-74	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		

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0307501-51	LF-75	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-52	LF-76	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-53	LF-77	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-54	LF-78	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-55	LF-79	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-56	LF-80	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-57	LF-81	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-58	LF-82	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

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0307501-59	LF-83	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-60	LF-84	SOIL	9/16/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-61	LF-85	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-62	LF-86	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-63	LF-87	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-64	LF-88	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp 1.0 C		
0307501-65	LF-89	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-66	LF-90	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		

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0307501-67	LF-91	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-68	LF-92	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp 1.0 C		
0307501-69	LF-93	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-70	LF-94	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-71	LF-95	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-72	LF-96	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M 8021B/5030 BTEX	Rejected: No		Temp 1.0 C		
0307501-73	LF-97	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		

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0307501-74	LF-98	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No	Temp	1.0 C		
0307501-75	LF-99	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No	Temp	1.0 C		
0307501-76	LF-100	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No	Temp	1.0 C		
0307501-77	LF-101	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No	Temp	1.0 C		
0307501-78	LF-102	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No	Temp	1.0 C		
0307501-79	LF-103	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No	Temp	1.0 C		
0307501-80	LF-104	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No	Temp	1.0 C		
0307501-81	LF-105	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No	Temp	1.0 C		

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0307501-82	LF-106	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-83	LF-107	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-84	LF-108	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-85	LF-109	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-86	LF-110	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-87	LF-111	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-88	LF-112	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-89	LF-113	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		

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0307501-90	LF-114	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-91	LF-115	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-92	LF-116	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-93	LF-117	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-94	LF-118	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-95	LF-119	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-96	LF-120	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307501-97	LF-121	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		

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0307501-98	LF-122	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No	Temp	1.0 C		
0307501-99	LF-123	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No	Temp	1.0 C		
0307502-00	LF-124	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No	Temp	1.0 C		
0307502-01	LF-125	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No	Temp	1.0 C		
0307502-02	LF-126	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No	Temp	1.0 C		
0307502-03	LF-127	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No	Temp	1.0 C		
0307502-04	LF-128	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No	Temp	1.0 C		
0307502-05	LF-129	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No	Temp	1.0 C		

ENVIRONMENTAL LAB OF TEXAS

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0307502-06	LF-130	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307502-07	LF-131	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307502-08	LF-132	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307502-09	LF-133	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307502-10	LF-134	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307502-11	LF-135	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307502-12	LF-136	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307502-13	LF-137	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		

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0307502-14	LF-138	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		
0307502-15	LF-139	SOIL	9/17/03	9/19/03 13:00	4 oz glass	ice
	<u>Lab Testing:</u> 8015M	Rejected: No		Temp 1.0 C		

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-01
Sample ID: LF-25

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/22/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	20.7	10.0
TOTAL, C6-C35	20.7	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	83%	70 130
1-Chlorooctadecane	74%	70 130

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0006928-02		9/24/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	100%	80 120
Bromofluorobenzene	93%	80 120

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-02
Sample ID: LF-26

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/22/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	32.4	10.0
TOTAL, C6-C35	32.4	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	90%	70 130
1-Chlorooctadecane	78%	70 130

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0006928-02		9/24/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	94%	80 120
Bromofluorobenzene	88%	80 120

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
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Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-03
Sample ID: LF-27

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u> 9/22/03	<u>Sample</u> <u>Amount</u> 1	<u>Dilution</u> <u>Factor</u> 1	<u>Analyst</u> JLH	<u>Method</u> 8015M
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Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	24.2	10.0
TOTAL, C6-C35	24.2	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	86%	70 130
1-Chlorooctadecane	77%	70 130

8021B/5030 BTEX

<u>Method</u> <u>Blank</u> 0006928-02	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u> 9/24/03	<u>Sample</u> <u>Amount</u> 1	<u>Dilution</u> <u>Factor</u> 25	<u>Analyst</u> RKT	<u>Method</u> 8021B
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Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	94%	80 120
Bromofluorobenzene	89%	80 120

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
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Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-04
Sample ID: LF-28

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/22/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	34.3	10.0
TOTAL, C6-C35	34.3	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	96%	70 130
1-Chlorooctadecane	87%	70 130

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0006928-02		9/24/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	0.028	0.025
p/m-Xylene	0.047	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	93%	80 120
Bromofluorobenzene	93%	80 120

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
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Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-05
Sample ID: LF-29

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/22/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	39.1	10.0
TOTAL, C6-C35	39.1	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	89%	70 130
1-Chlorooctadecane	77%	70 130

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0006928-02		9/24/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	97%	80 120
Bromofluorobenzene	92%	80 120

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ANALYTICAL REPORT

Camille Reynolds
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Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-06
Sample ID: LF-30

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/22/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	12.5	10.0
TOTAL, C6-C35	12.5	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	93%	70 130
1-Chlorooctadecane	78%	70 130

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0006928-02		9/24/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	90%	80 120
Bromofluorobenzene	86%	80 120

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
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Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-07
Sample ID: LF-31

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/22/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	17.3	10.0
TOTAL, C6-C35	17.3	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	96%	70 130
1-Chlorooctadecane	82%	70 130

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0006928-02		9/24/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	96%	80 120
Bromofluorobenzene	89%	80 120

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
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2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-08
Sample ID: LF-32

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/22/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	47.7	10.0
TOTAL, C6-C35	47.7	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	100%	70 130
1-Chlorooctadecane	85%	70 130

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0006928-02		9/24/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	93%	80 120
Bromofluorobenzene	87%	80 120

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-09
Sample ID: LF-33

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/22/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	43.9	10.0
TOTAL, C6-C35	43.9	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	98%	70 130
1-Chlorooctadecane	87%	70 130

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0006928-02		9/24/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	0.029	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	97%	80 120
Bromofluorobenzene	89%	80 120

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-10
Sample ID: LF-34

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/22/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	50.9	10.0
TOTAL, C6-C35	50.9	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	99%	70 130
1-Chlorooctadecane	85%	70 130

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0006928-02		9/24/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	91%	80 120
Bromofluorobenzene	89%	80 120

DL = Diluted N/A = Not RL = Reporting Limit

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ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-11
Sample ID: LF-35

8015M

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
		9/22/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	54.1	10.0
TOTAL, C6-C35	54.1	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	97%	70 130
1-Chlorooctadecane	84%	70 130

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
0006928-02		9/24/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	90%	80 120
Bromofluorobenzene	86%	80 120

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-12
Sample ID: LF-36

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/22/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	68.5	10.0
TOTAL, C6-C35	68.5	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	97%	70 130
1-Chlorooctadecane	84%	70 130

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0006928-02		9/24/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	90%	80 120
Bromofluorobenzene	84%	80 120

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-13
Sample ID: LF-37

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/22/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	75.8	10.0
TOTAL, C6-C35	75.8	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	93%	70 130
1-Chlorooctadecane	84%	70 130

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0006928-02		9/24/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	93%	80 120
Bromofluorobenzene	82%	80 120

DL = Diluted N/A = Not RL = Reporting Limit

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ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-14
Sample ID: LF-38

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/22/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	96.8	10.0
TOTAL, C6-C35	96.8	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	92%	70 130
1-Chlorooctadecane	85%	70 130

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0006928-02		9/24/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	0.034	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	96%	80 120
Bromofluorobenzene	85%	80 120

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-15
Sample ID: LF-39

8015M

Method	Date	Date	Sample	Dilution		
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/22/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	46.2	10.0
TOTAL, C6-C35	46.2	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	94%	70 130
1-Chlorooctadecane	83%	70 130

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution		
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0006928-02		9/24/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	0.031	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	98%	80 120
Bromofluorobenzene	92%	80 120

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-16
Sample ID: LF-40

8015M

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u>Factor</u>	<u>Method</u>
		9/22/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	24.4	10.0
TOTAL, C6-C35	24.4	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	99%	70 130
1-Chlorooctadecane	86%	70 130

8021B/5030 BTEX

<u>Method</u>	<u>Date</u>	<u>Date</u>	<u>Sample</u>	<u>Dilution</u>	<u>Analyst</u>	<u>Method</u>
<u>Blank</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Amount</u>	<u>Factor</u>	<u>Factor</u>	<u>Method</u>
0006928-02		9/24/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	103%	80 120
Bromofluorobenzene	84%	80 120

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
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2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-17
Sample ID: LF-41

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/22/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	45.7	10.0
TOTAL, C6-C35	45.7	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	100%	70 130
1-Chlorooctadecane	86%	70 130

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0006928-02		9/24/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	99%	80 120
Bromofluorobenzene	83%	80 120

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
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Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-18
Sample ID: LF-42

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/22/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	15.5	10.0
TOTAL, C6-C35	15.5	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	98%	70 130
1-Chlorooctadecane	84%	70 130

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0006928-02		9/24/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	98%	80 120
Bromofluorobenzene	95%	80 120

DL = Diluted N/A = Not RL = Reporting Limit

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ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-19
Sample ID: LF-43

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/22/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	73.5	10.0
TOTAL, C6-C35	73.5	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	101%	70 130
1-Chlorooctadecane	87%	70 130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0006939-02		9/25/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	0.042	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	105%	80 120
Bromofluorobenzene	87%	80 120

DL = Diluted N/A = Not RL = Reporting Limit

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ANALYTICAL REPORT

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2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-20
Sample ID: LF-44

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/22/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	140	10.0
TOTAL, C6-C35	140	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	93%	70 130
1-Chlorooctadecane	80%	70 130

Lab ID: 0307501-21
Sample ID: LF-45

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/23/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	174	10.0
TOTAL, C6-C35	174	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	105%	70 130
1-Chlorooctadecane	95%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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ANALYTICAL REPORT

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Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-22
Sample ID: LF-46

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/23/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	108	10.0
TOTAL, C6-C35	108	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	108%	70 130
1-Chlorooctadecane	97%	70 130

Lab ID: 0307501-23
Sample ID: LF-47

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/23/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	233	10.0
TOTAL, C6-C35	233	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	112%	70 130
1-Chlorooctadecane	104%	70 130

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-24
Sample ID: LF-48

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		9/23/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	74.4	10.0
TOTAL, C6-C35	74.4	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	102%	70 130
1-Chlorooctadecane	91%	70 130

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0006939-02		9/25/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	0.026	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	96%	80 120
Bromofluorobenzene	91%	80 120

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-25
Sample ID: LF-49

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/23/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	77.0	10.0
TOTAL, C6-C35	77.0	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	95%	70 130
1-Chlorooctadecane	86%	70 130

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0006939-02		9/25/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	0.029	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	99%	80 120
Bromofluorobenzene	90%	80 120

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-26
Sample ID: LF-50

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/23/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	82.2	10.0
TOTAL, C6-C35	82.2	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	109%	70 130
1-Chlorooctadecane	98%	70 130

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0006939-02		9/25/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	95%	80 120
Bromofluorobenzene	93%	80 120

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-27
Sample ID: LF-51

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/23/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	89.1	10.0
TOTAL, C6-C35	89.1	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	99%	70 130
1-Chlorooctadecane	90%	70 130

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0006939-02		9/25/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	0.026	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	94%	80 120
Bromofluorobenzene	89%	80 120

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-28
Sample ID: LF-52

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/23/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	60.2	10.0
TOTAL, C6-C35	60.2	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	104%	70 130
1-Chlorooctadecane	94%	70 130

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0006939-02		9/25/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	94%	80 120
Bromofluorobenzene	93%	80 120

DL = Diluted N/A = Not RL = Reporting Limit

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ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-29
Sample ID: LF-53

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/23/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	196	10.0
TOTAL, C6-C35	196	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	110%	70 130
1-Chlorooctadecane	100%	70 130

Lab ID: 0307501-30
Sample ID: LF-54

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/23/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	181	10.0
TOTAL, C6-C35	181	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	118%	70 130
1-Chlorooctadecane	108%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS I, LTD. 12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-31
Sample ID: LF-55

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/23/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	113	10.0
TOTAL, C6-C35	113	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	110%	70 130
1-Chlorooctadecane	98%	70 130

Lab ID: 0307501-32
Sample ID: LF-56

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/23/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	146	10.0
TOTAL, C6-C35	146	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	105%	70 130
1-Chlorooctadecane	96%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-33
Sample ID: LF-57

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/23/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	180	10.0
TOTAL, C6-C35	180	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	101%	70 130
1-Chlorooctadecane	92%	70 130

Lab ID: 0307501-34
Sample ID: LF-58

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/23/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	288	10.0
TOTAL, C6-C35	288	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	102%	70 130
1-Chlorooctadecane	94%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-35
Sample ID: LF-59

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/23/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	167	10.0
TOTAL, C6-C35	167	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	109%	70 130
1-Chlorooctadecane	102%	70 130

Lab ID: 0307501-36
Sample ID: LF-60

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/23/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	99.4	10.0
TOTAL, C6-C35	99.4	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	101%	70 130
1-Chlorooctadecane	88%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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ANALYTICAL REPORT

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Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-36
Sample ID: LF-60

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0006939-02		9/25/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.0270
Toluene	<0.025	0.0270
Ethylbenzene	<0.025	0.0270
p/m-Xylene	38.8	0.0270
o-Xylene	<0.025	0.0270

Surrogates	% Recovered	QC Limits
aaa-Toluene	92%	80 120
Bromofluorobenzene	84%	80 120

Lab ID: 0307501-37
Sample ID: LF-61

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/23/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	153	10.0
DRO, >C12-C35	1,500	10.0
TOTAL, C6-C35	1,653	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	121%	70 130
1-Chlorooctadecane	106%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-38
Sample ID: LF-62

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/23/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	12.5	10.0
DRO, >C12-C35	415	10.0
TOTAL, C6-C35	428	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	116%	70 130
1-Chlorooctadecane	102%	70 130

Lab ID: 0307501-39
Sample ID: LF-63

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/23/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	15.9	10.0
DRO, >C12-C35	396	10.0
TOTAL, C6-C35	412	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	104%	70 130
1-Chlorooctadecane	93%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-40
Sample ID: LF-64

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/23/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	17.8	10.0
DRO, >C12-C35	686	10.0
TOTAL, C6-C35	704	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	108%	70 130
1-Chlorooctadecane	93%	70 130

Lab ID: 0307501-41
Sample ID: LF-65

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	112	10.0
TOTAL, C6-C35	112	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	109%	70 130
1-Chlorooctadecane	96%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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ANALYTICAL REPORT

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Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-42
Sample ID: LF-66

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	67.7	10.0
TOTAL, C6-C35	67.7	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	99%	70 130
1-Chlorooctadecane	86%	70 130

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0006939-02		9/25/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	96%	80 120
Bromofluorobenzene	89%	80 120

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-43
Sample ID: LF-67

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	242	10.0
TOTAL, C6-C35	242	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	93%	70 130
1-Chlorooctadecane	80%	70 130

Lab ID: 0307501-44
Sample ID: LF-68

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	188	10.0
TOTAL, C6-C35	188	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	97%	70 130
1-Chlorooctadecane	84%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-45
Sample ID: LF-69

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	141	10.0
TOTAL, C6-C35	141	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	99%	70 130
1-Chlorooctadecane	84%	70 130

Lab ID: 0307501-46
Sample ID: LF-70

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	115	10.0
TOTAL, C6-C35	115	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	97%	70 130
1-Chlorooctadecane	84%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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ANALYTICAL REPORT

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Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-47
Sample ID: LF-71

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	199	10.0
TOTAL, C6-C35	199	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	96%	70 130
1-Chlorooctadecane	82%	70 130

Lab ID: 0307501-48
Sample ID: LF-72

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	332	10.0
TOTAL, C6-C35	332	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	107%	70 130
1-Chlorooctadecane	93%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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ANALYTICAL REPORT

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Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-49
Sample ID: LF-73

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	348	10.0
TOTAL, C6-C35	348	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	107%	70 130
1-Chlorooctadecane	97%	70 130

Lab ID: 0307501-50
Sample ID: LF-74

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	320	10.0
TOTAL, C6-C35	320	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	108%	70 130
1-Chlorooctadecane	95%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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ANALYTICAL REPORT

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Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-51
Sample ID: LF-75

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	466	10.0
TOTAL, C6-C35	466	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	101%	70 130
1-Chlorooctadecane	89%	70 130

Lab ID: 0307501-52
Sample ID: LF-76

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	248	10.0
TOTAL, C6-C35	248	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	112%	70 130
1-Chlorooctadecane	103%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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ANALYTICAL REPORT

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Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-53
Sample ID: LF-77

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	235	10.0
TOTAL, C6-C35	235	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	110%	70 130
1-Chlorooctadecane	95%	70 130

Lab ID: 0307501-54
Sample ID: LF-78

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	164	10.0
TOTAL, C6-C35	164	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	108%	70 130
1-Chlorooctadecane	95%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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ANALYTICAL REPORT

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Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-55
Sample ID: LF-79

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	160	10.0
TOTAL, C6-C35	160	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	106%	70 130
1-Chlorooctadecane	94%	70 130

Lab ID: 0307501-56
Sample ID: LF-80

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	203	10.0
TOTAL, C6-C35	203	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	105%	70 130
1-Chlorooctadecane	94%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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ANALYTICAL REPORT

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Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-57
Sample ID: LF-81

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	121	10.0
TOTAL, C6-C35	121	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	105%	70 130
1-Chlorooctadecane	93%	70 130

Lab ID: 0307501-58
Sample ID: LF-82

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	33.2	10.0
DRO, >C12-C35	158	10.0
TOTAL, C6-C35	191	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	105%	70 130
1-Chlorooctadecane	94%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-59
Sample ID: LF-83

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	231	10.0
TOTAL, C6-C35	231	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	107%	70 130
1-Chlorooctadecane	94%	70 130

Lab ID: 0307501-60
Sample ID: LF-84

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	324	10.0
TOTAL, C6-C35	324	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	118%	70 130
1-Chlorooctadecane	103%	70 130

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Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-61
Sample ID: LF-85

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	213	10.0
TOTAL, C6-C35	213	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	99%	70 130
1-Chlorooctadecane	92%	70 130

Lab ID: 0307501-62
Sample ID: LF-86

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	192	10.0
TOTAL, C6-C35	192	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	99%	70 130
1-Chlorooctadecane	86%	70 130

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ANALYTICAL REPORT

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Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-63
Sample ID: LF-87

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	258	10.0
TOTAL, C6-C35	258	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	103%	70 130
1-Chlorooctadecane	93%	70 130

Lab ID: 0307501-64
Sample ID: LF-88

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	74.3	10.0
TOTAL, C6-C35	74.3	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	83%	70 130
1-Chlorooctadecane	75%	70 130

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Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-64
Sample ID: LF-88

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0006939-02		9/25/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	93%	80 120
Bromofluorobenzene	80%	80 120

Lab ID: 0307501-65
Sample ID: LF-89

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	152	10.0
TOTAL, C6-C35	152	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	102%	70 130
1-Chlorooctadecane	91%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-66
Sample ID: LF-90

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	150	10.0
TOTAL, C6-C35	150	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	105%	70 130
1-Chlorooctadecane	92%	70 130

Lab ID: 0307501-67
Sample ID: LF-91

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	129	10.0
TOTAL, C6-C35	129	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	106%	70 130
1-Chlorooctadecane	92%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-68
Sample ID: LF-92

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	70.0	10.0
TOTAL, C6-C35	70.0	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	104%	70 130
1-Chlorooctadecane	93%	70 130

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0006939-02		9/25/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	0.045	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	100%	80 120
Bromofluorobenzene	82%	80 120

DL = Diluted N/A = Not RL = Reporting Limit

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Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-69
Sample ID: LF-93

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	527	10.0
TOTAL, C6-C35	527	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	94%	70 130
1-Chlorooctadecane	108%	70 130

Lab ID: 0307501-70
Sample ID: LF-94

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	341	10.0
TOTAL, C6-C35	341	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	93%	70 130
1-Chlorooctadecane	83%	70 130

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Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-71
Sample ID: LF-95

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	274	10.0
TOTAL, C6-C35	274	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	99%	70 130
1-Chlorooctadecane	86%	70 130

Lab ID: 0307501-72
Sample ID: LF-96

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	65.6	10.0
TOTAL, C6-C35	65.6	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	95%	70 130
1-Chlorooctadecane	81%	70 130

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Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-72
Sample ID: LF-96

8021B/5030 BTEX

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
0006939-02		9/25/03	1	25	RKT	8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Limits
aaa-Toluene	92%	80 120
Bromofluorobenzene	87%	80 120

Lab ID: 0307501-73
Sample ID: LF-97

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	287	10.0
TOTAL, C6-C35	287	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	100%	70 130
1-Chlorooctadecane	88%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-74
Sample ID: LF-98

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	246	10.0
TOTAL, C6-C35	246	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	92%	70 130
1-Chlorooctadecane	84%	70 130

Lab ID: 0307501-75
Sample ID: LF-99

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	224	10.0
TOTAL, C6-C35	224	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	93%	70 130
1-Chlorooctadecane	84%	70 130

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ANALYTICAL REPORT

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Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-76
Sample ID: LF-100

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	839	10.0
TOTAL, C6-C35	839	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	97%	70 130
1-Chlorooctadecane	83%	70 130

Lab ID: 0307501-77
Sample ID: LF-101

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	173	10.0
TOTAL, C6-C35	173	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	99%	70 130
1-Chlorooctadecane	85%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-78
Sample ID: LF-102

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	10.2	10.0
DRO, >C12-C35	1,340	10.0
TOTAL, C6-C35	1,350	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	103%	70 130
1-Chlorooctadecane	90%	70 130

Lab ID: 0307501-79
Sample ID: LF-103

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	543	10.0
TOTAL, C6-C35	543	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	105%	70 130
1-Chlorooctadecane	92%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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ANALYTICAL REPORT

Camille Reynolds
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Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-80
Sample ID: LF-104

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/24/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	428	10.0
TOTAL, C6-C35	428	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	98%	70 130
1-Chlorooctadecane	93%	70 130

Lab ID: 0307501-81
Sample ID: LF-105

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/25/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	385	10.0
TOTAL, C6-C35	385	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	109%	70 130
1-Chlorooctadecane	100%	70 130

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Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-82
Sample ID: LF-106

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/25/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	190	10.0
TOTAL, C6-C35	190	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	117%	70 130
1-Chlorooctadecane	106%	70 130

Lab ID: 0307501-83
Sample ID: LF-107

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/25/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	414	10.0
TOTAL, C6-C35	414	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	122%	70 130
1-Chlorooctadecane	109%	70 130

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Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-84
Sample ID: LF-108

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/25/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	297	10.0
TOTAL, C6-C35	297	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	130%	70 130
1-Chlorooctadecane	110%	70 130

Lab ID: 0307501-85
Sample ID: LF-109

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/25/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	615	10.0
TOTAL, C6-C35	615	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	105%	70 130
1-Chlorooctadecane	95%	70 130

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Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-86
Sample ID: LF-110

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/25/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	459	10.0
TOTAL, C6-C35	459	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	104%	70 130
1-Chlorooctadecane	92%	70 130

Lab ID: 0307501-87
Sample ID: LF-111

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/25/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	11.7	10.0
DRO, >C12-C35	1,100	10.0
TOTAL, C6-C35	1,112	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	111%	70 130
1-Chlorooctadecane	97%	70 130

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Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-88
Sample ID: LF-112

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/25/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	789	10.0
TOTAL, C6-C35	789	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	111%	70 130
1-Chlorooctadecane	100%	70 130

Lab ID: 0307501-89
Sample ID: LF-113

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/25/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	736	10.0
TOTAL, C6-C35	736	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	101%	70 130
1-Chlorooctadecane	96%	70 130

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Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-90
Sample ID: LF-114

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/25/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	772	10.0
TOTAL, C6-C35	772	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	103%	70 130
1-Chlorooctadecane	96%	70 130

Lab ID: 0307501-91
Sample ID: LF-115

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/25/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	660	10.0
TOTAL, C6-C35	660	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	105%	70 130
1-Chlorooctadecane	94%	70 130

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Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-92
Sample ID: LF-116

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/25/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	12.8	10.0
DRO, >C12-C35	1,350	10.0
TOTAL, C6-C35	1,363	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	103%	70 130
1-Chlorooctadecane	91%	70 130

Lab ID: 0307501-93
Sample ID: LF-117

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/25/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	18.6	10.0
DRO, >C12-C35	1,220	10.0
TOTAL, C6-C35	1,239	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	113%	70 130
1-Chlorooctadecane	97%	70 130

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Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-94
Sample ID: LF-118

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/25/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	13.9	10.0
DRO, >C12-C35	1,130	10.0
TOTAL, C6-C35	1,144	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	108%	70 130
1-Chlorooctadecane	99%	70 130

Lab ID: 0307501-95
Sample ID: LF-119

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/25/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	19.8	10.0
DRO, >C12-C35	1,200	10.0
TOTAL, C6-C35	1,220	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	112%	70 130
1-Chlorooctadecane	96%	70 130

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2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-96
Sample ID: LF-120

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/25/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	356	10.0
TOTAL, C6-C35	356	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	97%	70 130
1-Chlorooctadecane	83%	70 130

Lab ID: 0307501-97
Sample ID: LF-121

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/25/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	12.3	10.0
DRO, >C12-C35	1,230	10.0
TOTAL, C6-C35	1,242	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	103%	70 130
1-Chlorooctadecane	89%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307501-98
Sample ID: LF-122

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/25/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	1,020	10.0
TOTAL, C6-C35	1,020	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	111%	70 130
1-Chlorooctadecane	96%	70 130

Lab ID: 0307501-99
Sample ID: LF-123

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/25/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	10.9	10.0
DRO, >C12-C35	1,150	10.0
TOTAL, C6-C35	1,161	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	99%	70 130
1-Chlorooctadecane	87%	70 130

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2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307502-00
Sample ID: LF-124

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/25/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	1,100	10.0
TOTAL, C6-C35	1,100	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	100%	70 130
1-Chlorooctadecane	89%	70 130

Lab ID: 0307502-01
Sample ID: LF-125

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/26/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	1,280	10.0
TOTAL, C6-C35	1,280	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	95%	70 130
1-Chlorooctadecane	82%	70 130

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ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307502-02
Sample ID: LF-126

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/26/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	849	10.0
TOTAL, C6-C35	849	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	106%	70 130
1-Chlorooctadecane	93%	70 130

Lab ID: 0307502-03
Sample ID: LF-127

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/26/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	746	10.0
TOTAL, C6-C35	746	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	114%	70 130
1-Chlorooctadecane	98%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Mariand
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307502-04
Sample ID: LF-128

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/26/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	838	10.0
TOTAL, C6-C35	838	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	103%	70 130
1-Chlorooctadecane	89%	70 130

Lab ID: 0307502-05
Sample ID: LF-129

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/26/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	24.7	10.0
DRO, >C12-C35	2,520	10.0
TOTAL, C6-C35	2,545	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	106%	70 130
1-Chlorooctadecane	98%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307502-06
Sample ID: LF-130

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/26/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	10.0	10.0
DRO, >C12-C35	1,140	10.0
TOTAL, C6-C35	1,150	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	108%	70 130
1-Chlorooctadecane	97%	70 130

Lab ID: 0307502-07
Sample ID: LF-131

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/26/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	12.8	10.0
DRO, >C12-C35	863	10.0
TOTAL, C6-C35	876	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	94%	70 130
1-Chlorooctadecane	85%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307502-08
Sample ID: LF-132

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/26/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	13.7	10.0
DRO, >C12-C35	1,340	10.0
TOTAL, C6-C35	1,355	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	109%	70 130
1-Chlorooctadecane	99%	70 130

Lab ID: 0307502-09
Sample ID: LF-133

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/26/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	940	10.0
TOTAL, C6-C35	940	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	101%	70 130
1-Chlorooctadecane	92%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307502-10
Sample ID: LF-134

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/26/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	1,120	10.0
TOTAL, C6-C35	1,120	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	109%	70 130
1-Chlorooctadecane	99%	70 130

Lab ID: 0307502-11
Sample ID: LF-135

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/26/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	10.5	10.0
DRO, >C12-C35	1,090	10.0
TOTAL, C6-C35	1,101	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	106%	70 130
1-Chlorooctadecane	95%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307502-12
Sample ID: LF-136

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/26/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	1,120	10.0
TOTAL, C6-C35	1,120	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	100%	70 130
1-Chlorooctadecane	88%	70 130

Lab ID: 0307502-13
Sample ID: LF-137

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/26/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	17.5	10.0
DRO, >C12-C35	2,140	10.0
TOTAL, C6-C35	2,158	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	104%	70 130
1-Chlorooctadecane	91%	70 130

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Camille Reynolds
Environmental Technology Group, Inc.
2540 W. Marland
Hobbs, NM 88240

Order#: G0307501
Project: EO 2021
Project Name: TNM 97-16
Location: Lea County, N.M.

Lab ID: 0307502-14
Sample ID: LF-138

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/26/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	1,070	10.0
TOTAL, C6-C35	1,070	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	98%	70 130
1-Chlorooctadecane	86%	70 130

Lab ID: 0307502-15
Sample ID: LF-139

8015M

<u>Method</u> <u>Blank</u>	<u>Date</u> <u>Prepared</u>	<u>Date</u> <u>Analyzed</u>	<u>Sample</u> <u>Amount</u>	<u>Dilution</u> <u>Factor</u>	<u>Analyst</u>	<u>Method</u>
		9/26/03	1	1	JLH	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	12.1	10.0
DRO, >C12-C35	1,010	10.0
TOTAL, C6-C35	1,022	10.0

Surrogates	% Recovered	QC Limits
1-Chlorooctane	107%	70 130
1-Chlorooctadecane	93%	70 130

Approval:
Raland K. Tuttle, Lab Director, QA Officer
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

Date

DL = Diluted N/A = Not RL = Reporting Limit

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ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0307501

BLANK

Recovery	SOIL Pct (%) SOIL	LAB-ID # RPD	Concentr.	Sample	Concentr	Spike	QC Test	Result
Benzene-mg/kg		0006928-02			<0.025			
Benzene-mg/kg		0006939-02			<0.025			
Toluene-mg/kg		0006928-02			<0.025			
Toluene-mg/kg		0006939-02			<0.025			
Ethylbenzene-mg/kg		0006928-02			<0.025			
Ethylbenzene-mg/kg		0006939-02			<0.025			
p/m-Xylene-mg/kg		0006928-02			<0.025			
p/m-Xylene-mg/kg		0006939-02			<0.025			
o-Xylene-mg/kg		0006928-02			<0.025			
o-Xylene-mg/kg		0006939-02			<0.025			

MS

Recovery	SOIL Pct (%) SOIL	LAB-ID # RPD	Concentr.	Sample	Concentr	Spike	QC Test	Result
Benzene-mg/kg		0307501-01	0	2.5	2.35	94.4%		
Benzene-mg/kg		0307501-25	0	2.66	2.50	94.4%		
Toluene-mg/kg		0307501-01	0	2.5	2.34	93.6%		
Toluene-mg/kg		0307501-25	0	2.66	2.46	92.5%		
Ethylbenzene-mg/kg		0307501-01	0	2.5	2.30	92.0%		
Ethylbenzene-mg/kg		0307501-25	0	2.66	2.42	91.0%		
p/m-Xylene-mg/kg		0307501-01	0	5	4.66	93.2%		
p/m-Xylene-mg/kg		0307501-25	0.029	5.31	4.89	91.5%		
o-Xylene-mg/kg		0307501-01	0	2.5	2.24	89.6%		
o-Xylene-mg/kg		0307501-25	0	2.66	2.38	89.5%		

MSD

Recovery	SOIL Pct (%) SOIL	LAB-ID # RPD	Concentr.	Sample	Concentr	Spike	QC Test	Result
Benzene-mg/kg		0307501-01	0	2.5	2.22	88.8%	5.7%	
Benzene-mg/kg		0307501-25	0	2.66	2.48	93.2%	0.8%	
Toluene-mg/kg		0307501-01	0	2.5	2.22	88.8%	5.3%	
Toluene-mg/kg		0307501-25	0	2.66	2.50	94.4%	1.6%	
Ethylbenzene-mg/kg		0307501-01	0	2.5	2.19	87.6%	4.9%	
Ethylbenzene-mg/kg		0307501-25	0	2.66	2.46	92.5%	1.6%	
p/m-Xylene-mg/kg		0307501-01	0	5	4.43	88.6%	5.1%	
p/m-Xylene-mg/kg		0307501-25	0.029	5.31	4.96	92.9%	1.4%	
o-Xylene-mg/kg		0307501-01	0	2.5	2.12	84.8%	5.5%	
o-Xylene-mg/kg		0307501-25	0	2.66	2.37	89.1%	0.4%	

SRM

Recovery	SOIL Pct (%) SOIL	LAB-ID # RPD	Concentr.	Sample	Concentr	Spike	QC Test	Result
Benzene-mg/kg		0006928-05		0.1	0.097	97.0%		
Benzene-mg/kg		0006939-05		0.1	0.103	103.0%		
Toluene-mg/kg		0006928-05		0.1	0.095	95.0%		
Toluene-mg/kg		0006939-05		0.1	0.100	100.0%		
Ethylbenzene-mg/kg		0006928-05		0.1	0.089	89.0%		

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0307501

SRM

Recovery

SOIL Pct (%) SOIL	LAB-ID # RPD	Concentr.	Sample	Concentr	Spike	QC Test	Result
Ethylbenzene-mg/kg	0006939-05		0.1	0.094	94.%		
p/m-Xylene-mg/kg	0006928-05		0.2	0.178	89.%		
p/m-Xylene-mg/kg	0006939-05		0.2	0.190	95.%		
o-Xylene-mg/kg	0006928-05		0.1	0.085	85.%		
o-Xylene-mg/kg	0006939-05		0.1	0.093	93.%		

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Environmental Lab of Texas, Inc.

12608 West I-20 East
Odessa, Texas 79763

Phone: 915-663-1800
Fax: 915-663-4773

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Doc # 98

Project Manager: Camille Reynolds
Company Name: ETGI

Company Address: 2540 W. Marland
City/State/Zip: Hobbs, NM 88240

Telephone No: (505) 397-4883
Fax No: (505) 397-4770

Sampler Signature: Camille Reynolds

Project Name: TMM 97-16
Project #: 802021
Project Loc: Lea County, NM
PO #: _____

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	Preservative						Matrix				Analyze for
				H ₂ O	HCl	HNO ₃	H ₂ SO ₄	Other (Specify)	Water	Sludge	Soil	Other (Specify)		
03071501	LF-25	9-15	1404	X										
01		9-15	1551											
02		9-15	1541											
03		9-15	1535											
04		9-15	1524											
05		9-15	1520											
06		9-15	1511											
07		9-15	1451											
08		9-15	1505											
09		9-15	1448											
10		9-15	1448											

Special Instructions: * FAX 9-24-03 Field Analysis - See Attached fax - (R)

Received by: Camille Reynolds Date: 9-19-03 Time: 9:45

Received by: ETGI Date: 9-19-03 Time: 13:00

Sample Containers: 4

Temperature Upon Receipt: See 100

Laboratory Comments: See 100

Environmental Lab of Texas, Inc.

12600 West 120 East
Odessa, Texas 79763
Phone: 915-663-1800
Fax: 915-553-4713

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Project Manager: Camille Reynolds

Company Name: ETGI

Company Address: 2540 W. Marland

City/State/Zip: Odessa, NM 88240

Telephone No: (505) 397-4883

Sampled Signature: Camille Reynolds

Fax No: (505) 397-4770

Project Name: TNM 97-16
Project #: 20201
Project Loc: Lea County, NM
PO #: _____

LAB # (4th priority)	FIELD CODE	Date Sample	Time Sampled	No. of Containers	Preservative						Matrix			Analyze For			
					H2O	HCl	HNO3	H2SO4	HClO4	HNO2	H2O2	Other: Specify	Water		Sludge	Soil	
11	LF-35	9-15	1440	7	X												
12	LF-36	9-15	1440														
13	LF-37	9-15	1435														
14	LF-38	9-15	1430														
15	LF-39	9-16	0815														
16	LF-40	9-16	0823														
17	LF-41	9-16	0828														
18	LF-42	9-16	0839														
19	LF-43	9-16	0843														
20	LF-44	9-16	0845														

Special Instructions: *FAX TPH Results and hold for BTEX

Temperature Used For Report: _____

Laboratory Comments: _____

Received by: <u>Camille Reynolds</u>	Date: <u>9/19</u>	Time: <u>9:43</u>
	Date: <u>9-19-05</u>	Time: <u>1300</u>

Signature: Camille Reynolds

Environmental Lab of Texas, Inc.

12000 West 11th Street
Dallas, Texas 75243
Phone: 915.563.1800
Fax: 915.563.4743

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Doc # 98

CHAIN OF CUSTODY RECORD AND ANALYSIS REPORT

Project Manager: Camille Reynolds

Company Name: ETGI

Company Address: 2540 W. Marland

City/State/Zip: El Paso, NM 88240

Telephone No: (505) 397-4882

Sample Signature: Camille Reynolds

Fax No: (505) 397-4770

Project Name: TNM 97-16

Project #: 802021

Project Loc: Lea County, NM

PO #:

LAB # (Lab. Use Only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative						Matrix				Analyze (u)	Sample Containers Analyzed	Temperature Upon Receipt	Laboratory Comments
					HNO ₃	HCl	HNO ₃	H ₂ O ₂	None	Other / Specify	Water	Sludge	Soil					
21	LF-45	9-16	0848	1	X										X			
22	LF-46	9-16	0851	1	X										X			
23	LF-47	9-16	0907	1	X										X			
24	LF-48	9-16	0913	1	X										X			
25	LF-49	9-16	0916	1	X										X			
26	LF-50	9-16	0919	1	X										X			
27	LF-51	9-16	0923	1	X										X			
28	LF-52	9-16	0926	1	X										X			
29	LF-53	9-16	0930	1	X										X			
30	LF-54	9-16	0932	1	X										X			

* FAX TPH Results and hold for BTEX

Requested by <u>Camille Reynolds</u>	Date	Time	Received by	Date	Time
	9/19	9:45	ELIOT	9/19	9:45
Requested by <u>ELIOT</u>	Date	Time	Received by	Date	Time
	9/19	13:00	RECEIVED	9/19	13:00

Environmental Lab of Texas, Inc.

12600 West 120 East
Dallas, Texas 75243
Phone: 915.563.1800
Fax: 915.563.4743

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Coc # 98

CHAIN OF CUSTODY RECORD AND ANALYSIS (R 011 5)

Project Manager: Camille Reynolds

Company Name: ETGI

Company Address: 2540 W. Marland

City/State/Zip: Hobbs, NM 88240

Telephone No: (505) 397-4883

Sample Signature: Camille Reynolds

Fax No: (505) 397-4770

Project Name: TNM 97-16
Project #: 20201
Project Loc: Lea County, NM
PO #: _____

LAB # (Lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	ANALYST										DATE						
					Fe	Mn	NaOH	1 SO.	Phone	Other: Specif.	Water	Sediment	Soil	Other: Specif.	DATE	TIME					
31	LF-55	9-16	0935	1																	
32	LF-56	9-16	0945	1																	
33	LF-57	9-16	0947	1																	
34	LF-58	9-16	0948	1																	
35	LF-59	9-16	1010	1																	
36	LF-60	9-16	1015	1																	
37	LF-61	9-16	1018	1																	
38	LF-62	9-16	1020	1																	
39	LF-63	9-16	1023	1																	
40	LF-64	9-16	1025	1																	

*FAX TPH Results and hold for BTEX

Prepared by: Camille Reynolds Date: 9-19-03 Time: 9:45

Received by: SLZ Date: 9/19 Time: 9:45

Received by ELOF: SLZ Date: 9-19-03 Time: 13:00

Special Instructions: Hold

Sample Contained? Yes
Temperature Upon Receipt? See 1°C
Laboratory Comments:

Page 5 of 12

COC #98

Environmental Lab of Texas, Inc.

15600 West I 20 E-54
Address, Texas 79763

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Camille Reynolds
Company Name: ETGI

Company Address: 2540 W. Marland
Hobbs, NM 88240

Telephone (505) 397-4882
Fax (505) 397-4770

Company Signature: Camille Reynolds

Project Name: TNM 97-16

Project #: 802001

Project Loc: Lea County, NM

PO #:

LAB # (Not used only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative							Matrix			Analyte List																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
					HNO ₃	H ₂ O ₂	HF	HF/NO ₃	Other: Specific	Water	Shade	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As	Se	Other: Specific	As

Sample Containers labeled
Temperature Upon Receipt
Laboratory Comments

* FAX TPH Results and hold for BTEX

Received by	Date	Time	Received by	Date	Time
Camille Reynolds	9-19-03	9:45	SPJ	9/19	9:45
SPJ	9/19	13:00	Received by ELOI	9-19-03	1300

cc: C

Environmental Lab of Texas, Inc.

12680 West 120 East
Oklahoma, Texas 79763

Phone: 915-563-1800
Fax: 915-563-4743

Project Manager: Camille Reynolds

Company Name: ETGI

Company Address: 2540 W. Marland

City/State/Zip: El Paso, NM 88340

Telephone Number: (505) 397-4883

Sample Signature: Camille Reynolds

Fax Number: (505) 397-4770

Page 6 of 12

Doc # 98

CHAIN OF CUSTODY RECORD AND ANALYSIS REPORT

Project Name: TNM 97-16
Project #: 802001
Project Loc: Lea County, NM
DO #: _____

LAB # (see back)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative						Matrix						Other Analyte	Sample Conditioning Index?	Temperature (then Re-Set)	Laboratory Comments
					HCl	HNO ₃	H ₂ SO ₄	H ₂ O ₂	Other	None	Chlor. Sensitive	Water	Sludge	Soil						
51	LF-75	9-16	1215	1	X															
52	LF-76	9-16	1300	1																
53	LF-77	9-16	1305	1																
54	LF-78	9-16	1310	1																
55	LF-79	9-16	1315	1																
56	LF-80	9-16	1320	1																
57	LF-81	9-16	1324	1																
58	LF-82	9-16	1328	1																
59	LF-83	9-16	1332	1																
60	LF-84	9-16	1336	1																

Special handling instructions: *Fax TPH Results and hold for BTEX

Received by:	Date	Time
<u>Camille Reynolds</u>	<u>9-19-03</u>	<u>9:45</u>
<u>Paul dK</u>	<u>9-19-03</u>	<u>1300</u>

Prepared by: Camille Reynolds
Checked by: SN

Page 7 of 12

COC #98

Environmental Lab of Texas, Inc.

12600 West 120 East
Odessa, Texas 79703
Phone: 915-563-1800
Fax: 915-563-7793

CHAIN OF CUSTODY RECORD AND ANALYSIS REPORT

Project Manager: Camille Reynolds
Company Name: ETGI

Project Name: TNM 97-16
Project #: EO 2001
Project Loc: Lea County, NM

Company Address: 2540 W. Marland
City/State/Zip: Lebbos, NM 88340

Telephone No: (505) 397-4882
Fax No: (505) 397-4770

Sample Description: Camille Reynolds

PO #:

DATE	TIME	ANALYZE (W)
9-17	0909	X
9-17	0910	X
9-17	0915	X
9-17	0918	X
9-17	0921	X
9-17	0925	X
9-17	0935	X
9-17	0943	X
9-17	0950	X
9-17	1020	X

DATE	TIME	ANALYZE (W)
9-17	0909	X
9-17	0910	X
9-17	0915	X
9-17	0918	X
9-17	0921	X
9-17	0925	X
9-17	0935	X
9-17	0943	X
9-17	0950	X
9-17	1020	X

DATE	TIME	ANALYZE (W)
9-17	0909	X
9-17	0910	X
9-17	0915	X
9-17	0918	X
9-17	0921	X
9-17	0925	X
9-17	0935	X
9-17	0943	X
9-17	0950	X
9-17	1020	X

DATE	TIME	ANALYZE (W)
9-17	0909	X
9-17	0910	X
9-17	0915	X
9-17	0918	X
9-17	0921	X
9-17	0925	X
9-17	0935	X
9-17	0943	X
9-17	0950	X
9-17	1020	X

DATE	TIME	ANALYZE (W)
9-17	0909	X
9-17	0910	X
9-17	0915	X
9-17	0918	X
9-17	0921	X
9-17	0925	X
9-17	0935	X
9-17	0943	X
9-17	0950	X
9-17	1020	X

Sample Compliance (Time)
Temperature (Time)
Laboratory Comments:

DATE	TIME	DATE	TIME
9/19	9:45	9-19-03	13:00

DATE	TIME	DATE	TIME
9/19	9:45	9-19-03	13:00

*FAX TPH Results and hold - for BTEX

Signature of by: Camille Reynolds
Collection Date: 9-19-03

Page 8 of 12

Environmental Lab of Texas, Inc.

12000 West 120 East
Dallas, Texas 75263

Phone: 915-563-1800
Fax: 915-563-4743

Project Manager: Camille Reynolds

Company Name: ETGI

Company Address: 2540 W. Marland

City/State/Zip: Hobbs, NM 88240

Telephone No: (505) 397-4882

Company Signature: Camille Reynolds

Fax No: (505) 397-4770

Project Name: TNM 97-16

Project # 802021

Project Loc: Lea County, NM

PO #:

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUIRED

LAB # (Lab only)	FIELD CODE	Date Sample	Time Sample	No. of Containers	Preservative	Matrix	Analyzed for
71	LF-95	9-17	1023	7		Soil	Asbestos
72	LF-96	9-17	1026			Soil	Asbestos
73	LF-97	9-17	1030			Soil	Asbestos
74	LF-98	9-17	1033			Soil	Asbestos
75	LF-99	9-17	1044			Soil	Asbestos
76	LF-100	9-17	1048			Soil	Asbestos
77	LF-101	9-17	1051			Soil	Asbestos
78	LF-102	9-17	1055			Soil	Asbestos
79	LF-103	9-17	1059			Soil	Asbestos
80	LF-104	9-17	1128			Soil	Asbestos

*FAX TPH Results and hold for BTEX

Prepared by	Date	Time	Received by	Date	Time
Camille Reynolds	9-19-03	9:45	SVZ	9/19	9:45
Camille Reynolds	9/19	13:00	Paul d/c T.O	9-19-03	1300

Sample Containing Inhibitor
Temperature (C/F) 100/212
Laboratory Comments:

Dec 100

Environmental Lab of Texas, Inc.

12600 West 120 East
Dallas, Texas 75243
Phone: 915-563-1000
Fax: 915-563-4743

Page 9 of 12 Coc #98

CHAIN OF CUSTODY RECORD AND ANALYSIS REPORT

Project Manager: Camille Reynolds

Company Name: ET&E

Company Address: 2540 W. Marland

City/State/Zip: Hobbs, NM 88240

Telephone No: (505) 397-4883

Sample Signature: Camille Reynolds

Project Name: TNM 97-16

Project #: 802021

Project Loc: Lea County, NM

PO #: _____

Fax No: (505) 397-4770

LAB # (MS-USA only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative							Matrix			Analyzed by	Sample Continued Impact?	Temperature Upon Receipt	Laboratory Comments
					H ₂ O	H ₂ SO ₄	HNO ₃	HAZK	H ₂ SO ₄	HNO ₃	Other Specif.	Water	Sludge	Soil				
0307501	LF-105	9-17	1130	7														
81	LF-106	9-17	1137															
82	LF-107	9-17	1141															
83	LF-108	9-17	1144															
84	LF-109	9-17	1148															
85	LF-110	9-17	1152															
86	LF-111	9-17	1155															
87	LF-112	9-17	1158															
88	LF-113	9-17	1202															
89	LF-114	9-17	1205															
90																		

*FAX TPH Results and hold for BTEX

Signature	Date	Time	Received by	Date	Time
Camille Reynolds	9-19-03	9:45	SLD	9/19	9:45
5th	9/19	13:00	Paul, d 720	9-19-03	1300

Special Instructions: _____

304

LAB # (Lab Use Only)	FIELD CODE	Date Sampled	Time Sampled	Nr. of Containers	Preservative	Matrix	Analyte List
0307501	LF-115	9-17	1305	1		Soil	X
0307502	LF-116	9-17	1309	1		Sediment	X
91	LF-117	9-17	1313	1		Water	X
92	LF-118	9-17	1317	1		Other Specimen	X
93	LF-119	9-17	1321	1		None	X
94	LF-120	9-17	1325	1		H ₂ O ₂	X
95	LF-121	9-17	1328	1		H ₂ O ₂	X
96	LF-122	9-17	1332	1		H ₂ O ₂	X
97	LF-123	9-17	1335	1		H ₂ O ₂	X
98	LF-124	9-17	1338	1		H ₂ O ₂	X
0307502-00	LF-124	9-17	1338	1		H ₂ O ₂	X

* FAX TPH Results and hold for BTEX.

Date	Time	Received by:
9-19	9:45	Elmer
9-19	13:00	Revised by Elmer

Candice Reynolds
Candice Reynolds
Laboratory Director

PAGE 11 of 12 Doc # 98

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Environmental Lab of Texas, Inc.

12600 West 14th East
Dallas, Texas 75243
Phone: 915-563-1800
Fax: 915-563-4743

Project Manager: Camille Reynolds

Company Name: ET&I

Company Address: 2540 W. Marland

City/State/Zip: Hobbs NM 88240

Telephone/Fax: (505) 397-4882

Sampled Signature: Camille Reynolds

Fax No: (505) 397-4740

Project Name: TNM 97-16

Project #: 802001

Project Loc: Lea County, NM

PO #:

LAB # (for test only)	FIELD CODE	Date Sampled	Time Sampled	Preservative							Matrix			Analyze for	Y	H
				HNO ₃	HCl	H ₂ SO ₄	None	Other (Specify)	Water	Sludge	Soil					
0307502	LE-125	9-17	1342													
01		9-17	1355													
02		9-17	1359													
03		9-17	1403													
04		9-17	1407													
05		9-17	1411													
06		9-17	1415													
07		9-17	1418													
08		9-17	1420													
09		9-17	1426													
10		9-17	1426													

Special Instructions: *FAX TPH Results and hold for BTEX

Signature: Camille Reynolds Date: 9/19 Time: 13:00

Received by: ET&I Date: 9/19 Time: 13:00

Signature: Camille Reynolds Date: 9/19 Time: 13:00

Signature: Camille Reynolds Date: 9/19 Time: 13:00

Jan 20 04 01:16p

p.14

Sep 24 03 02:13p

p.1

ETGI

2540 WEST MARLAND

HOBBS, NM 88240

(505) 397-4332 (505) 397-4701 (FAX)

DATE: 9-24-03

TO: ELOT (Jeannie)

FROM: Camille

(Number of pages including cover: 1)

T.M. 97-16 EO 2021 Coc# 098

Please analyze all soil samples with TPH

Concentrations of less than 100 ppm for

Concentrations of BTEX. Camille Reynolds
9/24/03

IF YOU HAVE TROUBLE RECEIVING THIS FACSIMILE, PLEASE CALL OUR OFFICE.

THANKS!

Appendix B:
New Mexico Oil Conservation Division
Correspondence



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Lori Wrotenbery

Director

Oil Conservation Division

May 28, 2003

Mr. William von Drehle, Director, Environmental
EOTT ENERGY LLC
P.O. Box 4666
Houston, Texas 77210-4666

RE: CASE #1R 0138 TNM 97-16 BECKY DOOM

Dear Mr. Von Drehle:

The New Mexico Oil Conservation Division (OCD) has reviewed the following EOTT Energy LLC documents, which were submitted to the OCD by EOTT's consultant Environmental Technology Group, Inc (ETGI.)

- April 2001 "ANNUAL MONITORING REPORT, EOTT PIPELINE COMPANY, TNM 97-16, LEA COUNTY, NEW MEXICO."
- April 2003 "ANNUAL MONITORING REPORT, EOTT ENERGY, LLC, TNM 97-16, NE 1/4 NW 1/4 OF SECTION 12, TOWNSHIP 24 NORTH, RANGE 37 EAST, LEA COUNTY NEW MEXICO"

These documents contain the results of ETGI's ground water monitoring activities of a single monitoring well on this site. Quarterly sampling since January 1999 has shown the ground water to be in compliance with New Mexico Water Quality Control Commission (WQCC) standards as demonstrated in twenty one consecutive sampling events.

The closure for this site is approved on the condition that the monitor wells be properly plugged and abandoned according to standard industry practices.

Please be advised that OCD approval does not relieve EOTT of responsibility if remaining contaminants are found to pose a future threat to surface water, ground water, human health or the environment. In addition, OCD approval does not relieve EOTT of responsibility for compliance with any other federal, state, tribal or local laws and regulations. If you have any questions, please email me or call me at (505) 476-3493.

Sincerely,

Randolph Bayliss, P.E.
Hydrologist
Environmental Bureau

xc: Chris Williams, OCD Hobbs District Office

Appendix C:
State Engineer Plugging Record

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well LINK Energy Owner's Well No. MW-1
Street or Post Office Address 5805 E. Hwy 80
City and State Midland, TX 79706

Well was drilled under Permit No. _____ and is located in the:

a. _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ of Section 12 Township 24S. Range 37 E. N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Eades Drilling Company License No. WD1044

Address Hobbs, N.M. 88240

Drilling Began 1999 Completed _____ Type tools _____ Size of hole _____ in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well _____ ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well _____ ft.

Monitor Well

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor ECO DRILLING WD1569
Address 2307 Garden City Hwy Midland, Tx
Plugging Method Mixed by Drilling Crew - (Slurry)
Date Well Plugged 5-14-04
Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1	0'	32'	9
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received

Quad _____ FWL _____ FSL _____

File No. _____ Use _____ Location No. _____

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Link Energy Owner's Well No. MW-2
Street or Post Office Address 5805 E. Hwy 80
City and State Midland, TX 79706

Well was drilled under Permit No. _____ and is located in the:

a. _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ _____ of Section 12 Township 24S Range 37E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Endes Drilling Company License No. WD1044

Address Hobbs, NM 88240

Drilling Began 1999 Completed _____ Type tools _____ Size of hole _____ in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well _____ ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well _____ ft.

Monitor Well

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor ECO DRILLING WD 1569
Address 2307 Garden City Hwy Midland, TX
Plugging Method Mixed by Driller Crew - (Slurry)
Date Well Plugged 5-14-04
Plugging approved by: _____

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1	0'	29'	9
2			
3			
4			

State Engineer Representative

FOR USE OF STATE ENGINEER ONLY

Date Received

Quad _____ FWL _____ FSL _____

File No. _____ Use _____ Location No. _____

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Link Energy Owner's Well No. MW-3
Street or Post Office Address 5805 E. Hwy 80
City and State Midland, Tx 79706

Well was drilled under Permit No. _____ and is located in the:

a. _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ of Section 12 Township 24S Range 37E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Eades Drilling Company License No. WD 1044
Address Hobbs, NM 88240

Drilling Began 1999 Completed _____ Type tools _____ Size of hole _____ in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well _____ ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well _____ ft.

monitor wells

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor ECO DRILLING - WD 1569
Address 2307 Garden City Hwy Midland, Tx
Plugging Method Mixed by Drilling Crew - Slurry
Date Well Plugged 5-14-04

Plugging approved by: _____

State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1	0'	30'	9
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received _____

Quad _____ FWL _____ FSL _____

File No. _____ Use _____ Location No. _____

STATE ENGINEER OFFICE

WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well Link Energy Owner's Well No. MW-4
Street or Post Office Address 5805 E. Hwy 80
City and State Midland, Tx 79706

Well was drilled under Permit No. _____ and is located in the:

a. _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ _____ $\frac{1}{4}$ _____ of Section 12 Township 24S Range 37E N.M.P.M.

b. Tract No. _____ of Map No. _____ of the _____

c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.

d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Erdes Drilling Company License No. LD 1044
Address 1666s, NM. 58240

Drilling Began 1999 Completed _____ Type tools _____ Size of hole _____ in.

Elevation of land surface or _____ at well is _____ ft. Total depth of well _____ ft.

Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well _____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
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Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor ECO DRILLING - WD1569
Address 2307 Garden City Hwy, Midland, Tx
Plugging Method Mixed by Drilling Crew - Slurry
Date Well Plugged 5-17-04
Plugging approved by: _____

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1	0'	30'	9
2			
3			
4			

State Engineer Representative

FOR USE OF STATE ENGINEER ONLY

Date Received

Quad _____ FWL _____ FSL _____

File No. _____ Use _____ Location No. _____

