## RELEASE REPORT

#### ADDITIONAL SUBSURFACE INVESTIGATION REPORT AND ABATEMENT COMPLETION REPORT (FINAL REPORT)

EOTT ENERGY CORP TNM 97-14 RELEASE SITE LEA COUNTY, NEW MEXICO

RECEIVED

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Prepared For: EOTT Energy Corp 5805 East Highway 80 Midland, Texas 79701 ENVIRONMENTAL BUREAU OIL CONSERVATION DIVISION

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Environmental Technology Group, Inc. Project No. EOT1023C

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 Abatement Completion Report (Final Report)

#### Environmental Technology Group, Inc. Project No. EOT1023C

Prepared by: Jesse Taylor Principal Geologist erry Nickell Managing Principal

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

December 1999

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#### 1.0 INTRODUCTION AND SITE BACKGROUND

The site is located approximately one mile south of the town of Monument, New Mexico in Section 8, Township 20 South, Range 37 East. A site location map is provided as Figure 1. On June 26, 1997, an estimated 29 barrels of crude oil was released at the site, none of which was recovered.

Approximately 9,200 cubic yards of impacted soil was excavated and stockpiled on site. The excavated soil was subsequently land-farmed on site as depicted on Figure 2, the Site Map. In September 1997, phase separated hydrocarbons (PSH) were observed in the excavated area. This product was skimmed off the water and PSH has not been observed at the site since that time. In October 1997, two temporary monitoring wells were installed at the site in order to assess the soil and ground water conditions. These activities were summarized in a report dated March 5, 1998.

A Remediation Plan was submitted to the OCD on October 29, 1998. This report summarized data collected during the excavation and temporary monitoring well installation. The report indicates that a significant portion of the excavation was backfilled with acceptable soil in order to minimize the collection of rainwater. A recovery trench was left open to recover water that collected in the excavation area. The remediation plan provided for the installation of a ground water monitoring well, located on the southwest corner of the excavation. The plan also called for a sampling of the land-farmed soil with one sample per 1,000 cubic yards.

In November 1998, a single ground water monitoring well was installed at the site at a point approximately 200 feet south-southwest of the excavated area. This location was at odds with the proposed location and the OCD requested that an additional well be installed at the southwest corner of the excavation location in a letter dated May 11, 1999. The results from this well installation were summarized in two similar reports, one dated February 3, 1999 and the other dated March 4, 1999.

A review of these reports indicate: the following:

- Soil samples collected from the excavation floor and walls indicate that the remaining soil in place does not exceed regulatory limits for hydrocarbon impact;
- Initial water samples collected from the excavation had concentrations of benzene in excess of regulatory standards, however the final sample, collected on June 18, 1998 was non-detect for benzene;
- A small amount of PSH was observed in the excavation but was removed by skimming and no subsequent evidence of the presence of PSH has been detected; and
- Soil and ground water samples, collected from the temporary monitoring wells and one ground water monitoring well, were below regulatory levels for hydrocarbon constituents.

The only remaining issue regarding the site activities was related to the ground water conditions immediately downgradient from the excavation. In order to resolve this question, a ground water monitoring well was installed in this position in October 1999.

#### 2.0 SUMMARY OF RECENT FIELD ACTIVITIES

The monitoring well was installed at the proscribed location on October 27, 1999. The well was drilled to a total depth of 38 feet bgs, as depicted on the soil boring log, included as Appendix A. The well was completed as prescribed by OCD requirements and in accordance with protocols outlined in Section 6 of this report. Both monitoring wells MW-1 and MW-2 were sampled in accordance with OCD requirements on November 9,1999. The soil laboratory data is included in Table 1 and ground water data, collected during the year 1999, is included as Table 2. The laboratory reports are included in Appendix B.

#### 3.0 RESULTS

The soil column consisted primarily red sand interbedded with layers of caliche. No hydrocarbon staining, odors or elevated PID readings were detected in any of the boring soil samples. Ground water was detected at a depth of approximately 25 feet bgs during the well installation. The soil laboratory sample, collected from the interval of 20 to 22 feet bgs, was non-detect for BTEX or TPH. The historical data from monitoring wells MW-1 has been non-detect for BTEX. The ground water sample from monitoring well MW-2 was also non-detect for BTEX.

#### 4.0 RECOMMENDATION

Soil and ground water at this site has been remediated to acceptable levels as described by OCD guidance documents. Therefore, it is recommended that no further abatement or monitoring activities be conducted at the site.

If this recommendation is approved by the OCD, the two monitoring wells will be plugged and abandoned in accordance with approved practices and in accordance with OCD requirements. The land-farmed soil will be tilled and re-seeded with native plants and grasses. Subsequently, adequate care will be provided to insure that these plants will thrive and erosion, associated with the remedial activities, will not occur at the site.

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#### 5.0 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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#### DISTRIBUTION

Copies 1 and 2 to : EOTT Energy Corp 5805 East Highway 80 Midland, Texas 79701

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Copy 4 to: Environmental Technology Group, Inc. 1776 Woodstead Court Suite 117 The Woodlands, Texas 77380

COPY NO .: \_



#### TABLE 1

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#### SOIL CHEMISTRY DATA TNM 97-14 ETGI JOB # 1023C

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)	GRÓ C6-C10 (mg/kg)	DRO >C10-C25 (mg/kg)
MW-1	11/02/98	0-2	ND	ND	ND	ND	ND	ND	ND	ND ·
MW-1	11/02/98	28-30	ND	ND	ND	ND	ND	ND	ND	ND
MW-2	10/27/99	20-22	ND	ND	ND	ND	ND	ND	ND	<10

NOTES:

NA = Not Analyzed ND = Not Detected

Detection Limits = 0.1 mg/kg BTEX 10 mg/kg TPH 10 mg/kg GRO/DRO

#### TABLE 2

#### GROUNDWATER ELEVATION DATA TNM 97-14 ETGI PROJECT # EOT1023C

WELL NUMBER	DATE MEASURED	DEPTH TO WATER FROM PVC	ELE OF (	ELEVATION OF WATER (feet)	
		(feet)	ACTUAL	ACTUAL CORRECTED	
MW-1	11/17/98	30.39	3,523.21	3,523.21	ND
MW-1	01/07/99	30.43	3,523.17	3,523.17	ND
MW-1	02/05/99	30.42	3,523.18	3,523.18	ND
MW-1	03/12/99	30.44	3,523.16	3,523.16	ND
MW-1	04/08/99	30.44	3,523.16	3,523.16	ND
MW-1	05/12/99	30.23	3,523.37	3,523.37	ND
MW-1	11/09/99	30.90	3,553.70	3,522.70	ND
MW-2	11/09/99	33.60	3,556.78	3,522.78	ND

NOTE: ND = Not Detected

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#### TABLE 3

#### GROUNDWATER CHEMISTRY DATA TNM 97-14 ETGI PROJECT # EOT1023C

SAMPLE	SAMPLE DATE	BENZENE (mg/L)	TOLUENE (mg/L)	ETHYL- BENZENE (mg/L)	XYLENES (mg/L)	TOTAL BTEX (mg/L)
MW-1	02/05/99	ND	ND	ND	ND	ND
MW-1	05/12/99	ND	ND	ND	ND	ND
MW-1	08/24/99	ND	ND	ND	ND	ND
MW-1	11/09/99	ND	ND	ND	ND	ND
MW-2	11/09/99	ND	ND	ND	ND	ND

Note: Detection limit = 0.001 mg/L

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FIGURES









APPENDIX A

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ENVIRONMENTAL LAB OF , INC.

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 97-14 Project Name: None Given Project Location: Lea County, N.M. Sampling Date: 10/27/99 Receiving Date: 10/30/99 Analysis Date: 11/01/99

ELT#	FIELD CODE	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	m,p-XYLENE (mg/kg)	o-XYLENE (mg/kg)	
21151	MW-2 (20-22)	<0.100	<0.100	<0.100	<0.100	<0.100	

% IA	91	89	89	89	89
% EA	93	86	88	88	89
BLANK	<0.100	<0.100	<0.100	<0.100	<0.100

METHODS: SW 846-8021,5030

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Raland K. Tuttle

<u>11-5-99</u> Date

ENVIRONMENTAL Lab of , INC.

		ETGI			
		ATTN: MR. J	ESSE TAYLO	R	
		P.O. BOX 48	45		
		MIDLAND, TE	EXAS 79704		
		FAX: 505-392	2-3760 (Ken D	utton)	
Sample	Type: Soil	FAX: 915-520	-4310	Sampling Date: 10/27/99	
Sample Condition: Intact/loed				Receiving Date: 10/30/99	
Project #	1: TNM 97-14			Analysis Date: 11/01/99	
Project N	Name: None Given				
Project L	ocation: Lea County, N.M.				
		GRO	DRO		
		C6-C10	>C10-C25		
ELT#	FIELD CODE	mg/kg	mg/kg		-
21151	MW-2 (20-22)	<10	<10		

% INSTRUMENT ACCURACY	115	106
% EXTRACTION ACCURACY	115	104
BLANK	<10	<10

Methods: EPA SW 846-8015M GRO/DRO

VOK (

11-5-99 Date

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ENVIRONMENTAL LAB OF , INC.

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

Sample Type: Water Sample Condition: Intact/Iced/HCI Project #: TNM 97-14 Project Name: EOT 10150 Project Location: Lea County, N.M. Sampling Date: 11/09/99 Receiving Date: 11/11/99 Analysis Date: 11/12/99

11-22-99

Date

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ELTH	FIELD CODE	BENZENE mg/L	TOLUENE	ETHYL8ENZENS mg/L	m.p-XYLENE mg/L	o-XYLENE	
21553	MM/-1	<0.001	<0.001	<6 001	<0.001	<0.001	
21554	MW-2	<0.001	<0.001	<0.001	<0.001	<0.001	

% IA	94	91	94	96	94
% EA	100	9â	101	104	100
BLANK	<0.001	<0.001	<0.001	<0.001	<0.001

METHODS: SW 846-8021.5030

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ENVIRONMENTAL LAB OF , INC.

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/load Project#: TNM 97-14 Project Name: EOT 1015C Project Location: Lea County,N.M. Sampling Date: 11/09/99 Receiving Date: 11/11/99 Analysis Date: See Below

ELT#	FIELD CODE	Sullate mg/L	Chicride <u>mg/L</u>	Carbonate mg/1	Bicarbonaie mg/L	TDS mg/L	
21554	MW-2	354	478	Ũ	375	1464	
	QUALITY CONTROL	44.3	4874	٠	*	*	
	TRUE VALUE	50.0	5000	٠	*	•	
	W PRECISION	89	97	•	۷	•	
	ANALYSIS DATE	11/12/99	11/15/99	11/12/99	11/12/\$9	11/12/99	

METHODS: EPA 375.4, 325.3, 310, 160.1

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11-22-99 Date

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ENVIRONMENTAL LAB OF Y , Inc.

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/HC! Project #: EOT 1015C Project Name: TNM 97-16

Sample Date: 11/09/99 Receiving Date: 11/11/99 Analysis Date: 11/19/99 Analysis Date: Hg 11/15/99

	2					
	MW-A	Reporting				
Analyte (mg/L)	21554	Limit	%IA	%EA	BLANK	RPD
A to many second	~ · · · ·				······································	······································
Aluminum	24.80	0.0500	97	92	<0.0500	4.75
Arsenic	0.0206	0.0050	106	104	<0.0050	8.00
Banum	1.040	0.0100	97	96	<0.0100	4.90
Beryllium	ND	0.0040	104	106	<0.0040	5.83
Cadmium	ND	0.0010	104	112	<0.0010	3.64
Calcium	477.0	1.000	98	•	<1.000	3.75
Chromium	0.0360	0.0050	102	<b>98</b>	<0.0050	4.74
Cobalt	0.0200	0.0200	100	103	<0.0200	516
Copper	0.0170	0.0100	97	93	(0.0100	410
Iron	20.90	0.0500	99	96	<0.0500	1 30
Lead	0.0120	0.0030	104	110	<0.0030	5.61
Magnesium	72.30	1.000	98	*	<1.000	1 37
Manganese	0.3510	0.0150	101	102	<0.0150	5.02
Mercury	ND	0.00020	106	83	<0.00020	17.58
Molybdenum	ND	0.050	100	100	<0.050	5 13
Nickel	0.0130	0.0100	102	103	<0.0100	577
Potassium	23,10	1.000	83	•	<1 000	3.81
Selanium	ND	0.0050	108	104	<0.0050	3.92
Silver	0.0120	0 0050	110	94	<0.0050	4 72
Soction	487.0	1.000	110	+	<1 000	305
Tin	0.0500	0 6500	105	٠	<0.0500	4
Vanadium	0.2240	0 0200	99	100	<0.0200	515
Zinc	0 0480	0.0200	94	96	<0.0200	4.95
Boma	0.740	0.050	107	110	<0.050	3 70
Strontium	3.82	0.050	108	108	<0.050	5.71

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

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11-22-99 Date

12600 West I-20 East + Odessa, Texas 79765 + (915) 563-1800 + Fax (915) 563-1713

#### 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/ loed Project #: TNM 97-14 Project Name: EOT 1015C Project Location: Lea County, N.M. Field Code: MW-2

Sampling Date: 11/09/99 Receiving Date: 11/11/99 Extraction Date: 11/15/99 Analysis Date: 11/18/99

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	REPORT	ELT#				
EPA 5W645 8270 (mg/l)	LIMIT	21554	RPD	<u>%EA</u>	%IA	
Mar - Salar Anna A					3.0	
Naprinaiene	0.005	ND			10	
Acenaphthylene	0.005	ND			82	
Acenaphthene	0.005	ND	1.55	65	82	
Fluorene	0.005	ND			86	
Fhenanthrene	0.005	ND			95	
Anthracene	0.005	NO			<b>9</b> 0	
Fluoranthene	0.005	ND			94	
Pyrene	0.005	ND	1.38	73	98	
Benzo(a)anthracene	0.005	ND			94	
Chrysene	0.005	ND			<b>9</b> 6	
Benzo[b]fluoranthene	0.005	ND			68	
Benzo[k]fluoranthene	0.005	ND			152	
Banzo (a)pyrene	0.005	ND			94	
Indeno[1,2,3-od]pyrene	0.005	ND			92	
Dibenz(a,h]anthracene	0.005	ND			<del>9</del> 0	
Benzo[g,h,l]perylene	0.005	ND			88	
		% RECOVERY				
Nitrobenzone-d5 SURR		50				
2-Fluorubiphenyl SURR		49				
Terphenyl-d14 SURR		43				

NO= NOT DETECTED

Method: EPA SW 848 8270C . 3510

Kaland K Jubel Raland K. Tuttle

11-22-99 Date

12600 West I-20 East • Odessa, Texas 79765 • (915) 563-1600 • Fax (915) 563-1713

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5309 Wurzbach, Suite 100 San Antonio, Texas 78238 (210) 680-3767 (210) 680-3763 FAX

March 4 1999



Mr. Tony Savoie TEXAS - NEW MEXICO PIPE LINE COMPANY P.O. Box 1030 Jal, New Mexico 88252

Re: Monitoring Well MW-1 TNM-97-14 Unit A, Section 8, Township 20 South, Range 37 East Lea County, New Mexico KEI Job No. 710028-1

Dear Mr. Savoie:

This letter summarizes the recent well installation activities at the TNM-97-14 release site. Ground water monitoring will be continued on a quarterly basis for 4 quarters per the Revised Remediation Work Plan approved by the New Mexico Oil Conservation Division (OCD), on November 30, 1998.

#### PURPOSE AND SCOPE

The purpose of the well installation was to provide a ground water monitoring location down gradient of the release site at the request of the OCD. The monitoring well location selected is believed to be down gradient from the source area based on the gradient direction of Monument Site 15 located north of the TNM-97-14 site.

#### SOIL INVESTIGATION

On November 2, 1998, 1 monitoring well (designated MW-1) was installed utilizing air rotary drilling. Soil samples were collected at selected intervals from the ground surface to the bottom of the well. The soils were classified in the field, soil samples were field screened, and selected samples were prepared and shipped to the laboratory for analysis. Upon advancement to total depth and collection of soil samples, a monitoring well consisting of 2 inch slotted PVC and blank riser was installed.

The monitoring well location was surveyed by a Professional Land Surveyor registered in the State of New Mexico and is presented on FIG. 1.

#### 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, 4 soil types were encountered. A description of the soil, approximate thickness, and head-space sample results for each soil type are as follows:

#### <u>Soil Type I</u>

This soil type consisted of brown sand fill encountered at the surface. The sand was loose and dry with an observed thickness of approximately 4.5 feet. Head-space readings from samples of this soil type were below instrument detection limits (ND).

#### Soil Type II

This soil type consisted of tan to reddish brown sand encountered below Soil Type I. The sand was silty, dense to loose, and dry to wet. The observed thickness of this soil type was approximately 4.5 feet. Head-space readings from samples of this soil type were ND.

#### Soil Type III

This soil type consisted of white, silty sand encountered below Soil Type II. The sand was very calcareous with calcareous nodules, very dense, and dry to moist. The observed thickness of this soil type was approximately 20 feet. Head-space readings from samples of this soil type were ND.

#### Soil Type IV

This soil type consisted of a tan to reddish brown clay encountered below Soil Type III. The clay contained calcareous nodules, was soft and moist to wet. The observed thickness of this soil type was approximately 9 feet. No samples of this soil type were collected.

A log indicating the subsurface soil profile, depths at which soil samples were obtained, head-space results, laboratory results, and generalized geologic profile are presented on FIG. 2.

#### SOIL SAMPLING AND ANALYTICAL RESULTS

Two samples were selected from the soil boring based on the following criteria:

- the sample collected from 0 to 2 feet below ground surface
- the sample collected directly above the ground water level measured at the time of drilling

Soil samples selected for analytical testing consisted of the following:

- two soil samples from the monitoring well were tested for benzene, toluene, ethylbenzene, and xylenes (BTEX) and total petroleum hydrocarbons diesel range organics (TPH-DRO)
- laboratory results for the selected samples indicated the following concentration ranges:

CONSTITUENT	CONCENTRATION RANGE
BENZENE (mg/kg)	ND
BTEX (mg/kg)	ND
TPH (ppm)	ND

Soil laboratory results are summarized in TABLE I. Soil analytical laboratory reports and chain-of-custody documentation are presented in APPENDIX A. QA/QC procedures are presented as APPENDIX C.

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#### **GROUND WATER SAMPLING AND ANALYTICAL RESULTS**

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Upon completion of drilling, the well was gauged to determine the depth to ground water and checked for the presence of phase-separate hydrocarbon (PSH). The depth to ground water measured in the monitoring well on January 7, 1999, was 28.03 feet below ground surface. Ground water measurements are summarized in TABLE II.

A ground water sample was obtained from monitoring well MW-1 on November 17, 1998, and tested for BTEX, ICP heavy metals, major cations/anions, and total dissolved solids (TDS). An additional ground water sample was collected on November 30, 1998, and submitted for polycyclic aromatic hydrocarbon (PAH) analysis. Laboratory results indicated the following concentration ranges:

CONSTITUENT	CONCENTRATION RANGE (mg/l)
BENZENE	ND
BTEX	ND
РАН	ND
METALS	ND to 430
BICARBONATE	405
SULFATE	228
CHLORIDES	412
TDS	1,910

Ground water laboratory results are summarized in TABLES III and IV. Ground water analytical laboratory reports and chain-of-custody documentation are presented in APPENDIX B. QA/QC procedures are presented as APPENDIX C.

Please call me or Theresa Nix at (210) 680-3767 with your questions or comments.

Respectfully,

Sterne once

Monica Slentz Project Manager

cc: Marc Oler, Equilon Bill Olson, OCD Santa Fe OCD Hobbs

maslp:\trimpl\710028\assment2\rsubsin2.doc



			Cooper's Land					
LEGEND	8							
Location of Monitoring Wells Location of Vent Stacks								
x Fence Line ot Overhead Telephone Line								
EL = Ground water elevation measured on January 7, 1999.								
B =     Benzene concentration (mg/L)       BTEX =     Total Benzene, Toluene, Ethylber       Xylenes concentration (mg/L)	izene,							
ND = Not Detected NOTE:								
Ground water samples were collected on November 17 and 30, 1998.				   				
	GROUND WATER EL	EVATION / CONCENT	RATION MAP		<u>.</u>		710028	- 1
	TEXAS-NEW MEXICO PIPE LINE CO.	TNM-97-14	LEA COUNTY, NEW MEXICO	)		1	FIG 1	



#### **GENERAL NOTES**

- ND Indicates constituent was not detected above the method detection or reporting limit.
- NS Indicates the constituent was not analyzed.
- --- Indicates PSH was not detected.

Depth to ground water is referenced from the ground surface.

Method detection or reporting limits:

۱

Soil:	BTEX	-	0.050 to 0.100 mg/kg
	TPH	-	10.0 to ppm
Water:	BTEX Metals PAH Cations Anions TDS		0.001 to 0.002 mg/l 0.002 to 5.6 mg/l 0.002 mg/l 4.0 mg/l 4 mg/l 25.0 mg/l

Laboratory test methods:

BTEX	-	EPA Method SW846-8021B
TPH	-	Modified EPA Method 8015 Diesel Range
		Organics
Metals	-	EPA ICP Method 6010
PAH	-	EPA Method 8270
Cations	-	SM4500CO2D
Anions	-	EPA Method 300.0

TDS - EPA Method 160.1

#### TABLE I

#### SUMMARY OF SOIL RESULTS - BTEX AND TPH TEXAS - NEW MEXICO PIPE LINE COMPANY TNM-97-14 LEA COUNTY, NEW MEXICO

SAMPLE	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	11/2/98	0-2	ND	ND	ND	ND	ND	ND
	11/2/98	28 - 30	ND	ND	ND	ND	ND	ND

### **TABLE II**

# SUMMARY OF GROUND WATER MEASUREMENTS TEXAS - NEW MEXICO PIPE LINE COMPANY TNM-97-14 LEA COUNTY, NEW MEXICO

MONITORING		<b>GROUND SURFACE</b>	DEPTH	GROUNE	WATER	PSH
MELL	DATE	ELEVATION	TO WATER	ELEV	ATION	THICKNESS
D	MEASURED	(feet)	(feet)	Actual	Corrected	(feet)
MW-1	11/02/98	3,551.20	27.99	3,523.21	1	-
	01/07/99	3,551.20	28.03	3,523.17		ł

NOTE: Depth to ground water is referenced from ground surface.
## TABLE III

## SUMMARY OF GROUND WATER RESULTS - BTEX TEXAS-NEW MEXICO PIPE LINE COMPANY TNM-97-14 LEA COUNTY, NEW MEXICO

MONITORING	DATE SAMPLED	BENZENE (mg/l)	TOLUENE (mg/l)	ETHYL- BENZENÉ (mg/kg)	XYLENES (mg/l)	BTEX (mg/l)
MW-1	11/17/98	ND	ND	ND	ND	ND

## **TABLE IV**

## SUMMARY OF GROUND WATER RESULTS - MISCELLANEOUS TEXAS - NEW MEXICO PIPE LINE COMPANY TNM-97-14 LEA COUNTY, NEW MEXICO

	NAVA/ 4	
SAMFLE LOCATION		10100-1
SAMPLE DATE	11/17/98	11/30/98
CONSTITUENT		ATION (mg/l)
PAH		
All Constituents	NS	ND
METALS		
Barium	0.082	NS
Boron	0.76	NS
Calcium	372	NS
Magnesium	53.6	NS
Manganese	0.082	NS
Potassium	6.389	NS
Silicon	31.8	NS
Sodium	430	NS
Strontium	3.301	NS
Vanadium	0.049	NS
CATIONS/ANIONS		
Bicarbonate	405	NS
Chloride	412	NS
Sulfate	228	NS
TD\$	1,910	NS

NOTE:

Those constituents not listed above were ND.

## ANALYTICAL REPORT 1-84249

for

K.E.I. Consultants, Inc.

**Project Manager: Theresa Nix** 

Project Name: TNMPL

Project Id: 710028

November 17, 1998



 11381 Meadowglen Lane
 Suite L \* Houston, Texas 77082-2647

 Phone (281) 589-0692
 Fax (281) 589-0695

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

November 17, 1998

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

Reference: XENCO Report No.: 1-84249 Project Name: TNMPL Project ID: 710028 Project Address: Lea Co., NM

Dear Theresa Nix:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with XENCO Chain of Custody Number 1-84249. All results being reported to you apply only to the samples analyzed, properly identified with a Laboratory ID number. This letter documents the official transmission of the contents of the report and validates the information contained within.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 3 years in our archives and after that time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. 1-84249 will be filed for 60 days, and after that time they will be properly disposed of without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

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

Sincerely,

Eddie L. Clemons, QA/QC Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY!



## ANALYTICAL CHAIN OF CUSTODY REPORT CHRONOLOGY OF SAMPLES

## K.E.I. Consultants, Inc.

Project Name: TNMPL

Project ID: 710028 Project Manager: Theresa Nix Project Location: Lea Co., NM

XENCO COC#: 1-84249 Date Received in Lab: Nov 4, 1998 10:00 by CC XENCO contact : Carlos Castro/Karen Olson

						- - - -	Date	and Time		
Field ID	Lab. ID	Method Name	Method Each ID	Units	Turn Around	Sample Collected	Addition	Extraction	Analysis	
1 MW-1	184249-001	BTEX	SW-846	mqq	10 days	Nov 2, 1998 11:10		Nov 4, 1898 by HL	Nov 4, 1998 18:56 by HL	
2		TPH8015M-D	SW-846 8015 M	mg/kg	f0 days	Nov 2, 1998 11:10		Nov 9, 1998 by RK	Nov 14, 1998 07:10 by AM	
	184249-002	втех	SW-846	bpm	10 days	Nov 2, 1998 13:00		Nov 4, 1998 by HL	Nov 4, 1998 19:14 by HL	
Ŧ		TPH8015M-D	SW-846 8015 M	mg/kg	10 days	Nov 2, 1998 13:00		Nov 9, 1998 by RK	Nov 14, 1998 08:47 by AM	



## CERTIFICATE OF ANALYSIS SUMMARY 1-84249

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### K.E.I. Consultants, Inc. Project Name: TNMPL

Project ID: 710028 Project Manager: Theresa Nix

Project Location: Lea Co., NM

Date Received in Lab : Nov 4, 1998 10:00 Date Report Faxed: Nov 17, 1998 xenco contact : Carlos Castro/Karen Oison

184249 002 Lab ID: 184249 001 **MW-1** MW-1 Field ID: 0-2' 28-30' Depth: Analysis Requested Solid Solid Matrix: 11/02/98 11:10 11/02/98 13:00 Sampled: TPH-DRO (Diesel) Analyzed: 11/14/98 11/14/98 R.L. R.L. EPA 8015 M Units: mg/kg mg/kg Total Petroleum Hydrocarbons < 10.0 (10.0) < 10.0 (10.0)BTEX Analyzed: 11/04/98 11/04/98 R.L. R.L. EPA 8021B Units: ppm ppm Benzene < 0.050 (0.050) < 0.050 (0.050) Toluene < 0.050 (0.050) < 0.050 (0.050) Ethylbenzene < 0.050 (0.050) < 0.050 (0.050) m.p-Xylene < 0.100 (0.100) < 0.100 (0.100) o-Xylene < 0.050 (0.050) < 0.050 (0.050) Total BTEX N.D. N.D.

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.





Certificate Of Quality Control for Batch : 18A25D87

## SW- 846 5030/8021B BTEX

Date Validated: Nov 5, 1998 11:15 Date Analyzed: Nov 4, 1998 11:42 Analyst: HL Matrix: Solid

			BLANK SPI	KE ANALY:	SIS		
ſ	[A]	(B)	[C]	[D]	[E]	[F]	[G]
	Blank	Blank Spike	Blank		QC	LIMITS	1
Parameter	Result	Result	Spike	Detection	Blank Spike	Recovery	Qualifier
			Amount	Limit	Recovery	Range	
	ppm	ppm	ppm	ppm	%	%	
Benzene	< 0.0010	0.1160	0.1000	0.0010	116.0	65-135	
Toluene	< 0.0010	0.1130	0.1000	0.0010	113.0	65-135	
Ethylbenzene	< 0.0010	0.1140	0.1000	0.0010	114.0	65-135	
m,p-Xylene	< 0.0020	0.2290	0.2000	0.0020	114.5	65-135	_
o-Xylene	< 0.0010	0.1120	0.1000	0.0010	112.0	65-135	

Blank Spike Recovery [E] = 100\*(B-A)/(C) N.C. = Not calculated, data below detection limit N.D. = Below detection limit II results are based on MDL and validated for QC purposes only

Eddle L. Clemons, II QA/QC Manager



Certificate Of Quality Control for Batch: 18A25D87

ŀ

## RTEX SW- 846 5030/80218

Date Validated: Nov 5, 1998 11:15 Date Analyzed: Nov 4, 1998 12:19

Analyst: HL

Matrix: Solid

			WATF	<b>XIX SPIKE /</b>	MATRIX S	PIKE DUPL	ICATE AND P	IECOVERY			
	[V]	[8]	<u>נ</u>	6	(E)	Matrix	(1)	<u>[9]</u>	E	E	5
	Sample	Matrix Spike	Matrix Spike	Matrix		Limit	90	S	g	Matrix Spike	
184238-006	Result	Result	Duplicate	Spike	Detection	Relative	Spike Relative	Matrix Spike	M.S.D.	Recovery	Qualifier
			Result	Amount	Limit	Difference	Difference	Recovery	Recovery	Range	
rameter	mqq	mqq	mqq	mqq	bpm	*	*	*	*	*	
Benzene	< 0.020	1.942	1.880	2.000	0.020	25.0	3.2	97.1	94.0	65-135	
Toluene	< 0.020	1.980	1.936	2.000	0.020	25.0	2.2	0.99.0	96.8	65-135	
Ethylbenzene	< 0.020	1.998	2.000	2.000	0.020	25.0	0.1	6.66	100.0	65-135	
m.p-Xylene	< 0.040	4.040	4.020	4.000	0.040	25.0	0.5	101.0	100.5	65-135	
o-Xylene	< 0.020	1.990	2.000	2.000	0.020	25.0	0.5	99.5	100.0	65-135	

Spike Relative Difference [F] = 200\*(B-C)/(B+C) Matrix Spike Recovery [G] = 100\*(B-A)(D] M.S.D. = Matrix Spike Duplicate N.D. = Below detection limit or not detected M.S.D. Recovery [H] = 100\*(C-A)/[D]

All results are based on MDL and validated for QC purposes

Herrion Dollow 's inflatione

Hert. Clemons, II **QA/QC Manager** 



## SW- 846 8015 M TPH- DRO (Diesel)

Date Validated: Nov 16, 1998 11:50 Date Analyzed: Nov 14, 1998 06:06 Analyst: AM Matrix: Solid

			BLANK SPI		5 <b>IS</b>		
	[A]	[B]	[C]	[D]	(E)	(F)	[G]
	Blank	Blank Spike	Blank		QC	LIMITS	1
Parameter	Result	Resuit	Spike	Detection	Blank Spike	Recovery	Qualifier
	ł		Amount	Limit	Recovery	Range	
	m:: kg	mg/kg	mg/kg	mg/kg	%	%	
Tota. ⇒troleum Hydrocarbons	. < 10.00	162	200	10.00	81.0	65-135	

Blank Turke Recovery [E] = 100\*(B-A)/(C) N.C. = Unit calculated, data below detection limit

N.D. = Glow detection limit

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

Eddie L. Clemons, II

QA/QC Manager



Certificate Of Quality Control for Batch: 18A40H67

# SW- 846 8015 M (TPH- DRO (Diesel)

 Date Validated:
 Nov 16, 1998
 11:50

 Date Analyzed:
 Nov 14, 1998
 07:10

Analyst: AM Matrix: Solid

			MATR	IX SPIKE /	MATRIX SI	PIKE DUPL	ICATE AND R	ECOVERY			
	[A]	[8]		[0]	[E]	Matrix	Ē	[0]	(H)	Ξ	[7]
	Sample	Matrix Spike	Matrix Spike	Matrix		Limit	gc	ос	аc	Matrix Spike	
13 13 19 - 001	Result	Result	Duplicate	Spike	Detection	Relative	Spike Relative	Matrix Spike	M.S.D.	Recovery	Qualifier
			Result	Amount	Limit	Difference	Difference	Recovery	Recovery	Range	
rarameter	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	*	*	*	*	*	
Total Petroleum Hydrocarbons	< 10.00	241	168	200	10.00	30.0	35.7	120.5	84.0	65-135	

Spike Relative Difference [F] = 200°(B-C)/(B+C) Matrix Spike Recovery [G] = 100°(B-A)/[D] M.S.D. = Matrix Spike Duplicate M.S.D. Recovery [H] = 100°(C-A)/[D] N.D. = Below detection limit or not detected All results are based on MDL and validated for QC purposes

Herrich Dalke, 'suchdone

L. Clemons, I **QA/QC Manager** 

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..... 11381 Meadowglen, Suite L Houston TX 77082 281-589-0692 成りた300 Winshareh Draid Suite 104 San Antonio TX 78238 210-5

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

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## ANALYTICAL REPORT 1-84545

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for

K.E.I. Consultants, Inc.

**Project Manager: Stas Grover** 

Project Name: Reeves-TNM 9714

Project Id: 710028

December 8, 1998



 11381 Meadowglen Lane
 Suite L \* Houston, Texas 77082-2647

 Phone (281) 589-0692
 Fax (281) 589-0695

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

December 8, 1998

Project Manager: Stas Grover K.E.I. Consultants, Inc. 5309 Wurzbach Rd. Suite 100 San Antonio, TX 78238

Reference: XENCO Report No.: 1-84545 Project Name: Reeves-TNM 9714 Project ID: 710028 Project Address: Lea County, NM

Dear Stas Grover:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with XENCO Chain of Custody Number 1-84545. All results being reported to you apply only to the samples analyzed, properly identified with a Laboratory ID number. This letter documents the official transmission of the contents of the report and validates the information contained within.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 3 years in our archives and after that time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. 1-84545 will be filed for 60 days, and after that time they will be properly disposed of without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

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

Sincerely,

QA/QC Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY!



## ANALYTICAL CHAIN OF CUSTODY REPORT CHRONOLOGY OF SAMPLES

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K.E.I. Consultants, Inc.

Project Name: Reeves-TNM 9714

Project Manager: Stas Grover Project Location: Lea County, NM

Project ID: 710028

**XENCO** COC#: 1-84545 Date Received in Lab: Nov 24, 1998 13:10 by LY

XENCO contact : Carlos Castro/Karen Olson

3.5			<b>—</b>	1		Τ	1	1	1	1
		Analysis	Nov 24, 1998 19:32 by HL	Nov 25, 1998 14:45 by JO	Nov 30, 1998 14:57 by MAB	Nov 25, 1998 23:27 by OR	Nov 30, 1998 14:09 by CG	Nov 25, 1998 15:15 by IF	Nov 25, 1998 15:15 by IF	Dec 2, 1998 14:24 by CG
e and Time		Extraction	Nov 24, 1998 by HL	Nov 24, 1998 by JO	Nov 30, 1998 by ALO	Nov 25, 1998 by OR	Nov 30, 1998 by AO	Nov 25, 1998 by IF	Nov 25, 1998 by IF	Nov 30, 1998 by AO
e al	Addition	Requested		-						
	Sample	Collected	Nov 17, 1998 11:00	Nov 17, 1998 11:00	Nov 17, 1998 11:00	Nov 17, 1998 11:00	Nov 17, 1998 11:00	Nov 17, 1998 11:00	Nov 17, 1998 11:00	Nov 17, 1998 11:00
	Turn	Around	10 days	10 days	10 days	10 days	10 days	10 days	10 days	10 days
	l Inite		шdd	mg/L	ացչ	шgЛ	mg/L	л⁄рт	աց/ե	mg/L
	Method	Q	SW-846	EPA 160.1	EPA	EPA 300.0	SW846-7470	SM4500CO2D	SM 4500C02D	EPA 6010
	Method	Name	BTEX	tDS	Tot. Metals	Anions	Mercury, Tot	Carbonate	Bicarbonate	Total Metals
	Lab. ID		184545-001							
	Field ID		MW-1				-			



**CERTIFICATE OF ANALYSIS SUMMARY 1-84545** 

### K.E.I. Consultants, Inc. Project Name: Reeves-TNM 9714

Project ID: 710028 Project Manager: Stas Grover

Project Location:Lea County, NM

to the end use of the data hereby presented.

Date Received in Lab: Nov 24, 1998 13:10 Date Report Faxed: Dec 8, 1998 **XENCO Contact :** Carlos Castro/Karen Olson

Analysis Requested	Lab ID: Field (D: Depth: Matrix: Sampled:	184545 001 MW-1 Liquid 11/17/98 11:00			
Total Metais (ICP)	Analyzed	12/02/98 R I			
EPA 6010	Units:	mg/L			
Boron	<u></u>	0.76 (0.11	)		
Calcium	·····	372 (1.1			
Silicon	<u></u>	31.8 (0.6	)		
Sodium		430 (5.6	)		
Tin		< 0.22 (0.22	)		
Total Mercury	Analyzed:	11/30/98			
EPA 7470	Units:	mg/L			
Mercury		< 0.001 (0.001	)		
BTEX	Analyzed	11/24/98			
EPA 8021B	Units:	ppm R.L.			
Велгеле		< 0.001 (0.001			
Toluene	<u> </u>	< 0.001 (0.001	)		
Ethylbenzene		< 0.001 (0.001	)		
m,p-Xylene		< 0.002 (0.002	)	····	······································
o-Xylene		< 0.001 (0.001	>	· · · · · · · · · · · · · · · · · · ·	
Total BTEX		N.D	·		
Bicarbonate	Analyzed	11/25/98			
SM 4500CO2D	Units:	ma/L			
Bicarbonate		405 (4.0			
Carbonate	Analyzod	11/25/08			
SM4500CO2D	Units:	mg/L R.L.			
Carbonate		< 4.0 (4.0)			· · · · · · · · · · · · · · · · · · ·
Total Dissolved Solids	Analyzed	11/25/98			
EPA 160.1	Units:	ma/L R.L.			
Total Dissolved Solids		1910 (25.0)			
Total Metals by ICP-MS	Analimadi	11/20/08			
ICP-MS Metal	Units:	mg/L R.L.		1	
Aluminum		< 1.11 (1.11)			
Arsenic		< 0.056 (0.056)			
Barium		0.082 (0.028)	·····		
Beryllium		< 0.006 (0.006)			
Cadmium		< 0.006 (0.006)			
Chromium		< 0.028 (0.028)			
This report summary, and the entire reports of K.E.I. Consultants, Inc The interpretations and results expressed XENCO Laboratories. Xenco Laboratories to the end use of the data hereby present	ort it represent d through this s, however, as	s, has been made for the e analytical report represent sumes no responsibility an	xclusive and confidential the best judgment of id makes no warranty		Clemons, II Clemons, II C Manager



CERTIFICATE OF ANALYSIS SUMMARY 1-84545

## K.E.I. Consultants, Inc. Project Name: Reeves-TNM 9714

Project ID: 710028

Project Manager: Stas Grover Project Location: Lea County, NM Date Received in Lab: Nov 24, 1998 13:10 Date Report Faxed: Dec 8, 1998 xenco contact: Carlos Castro/Karen Olson

Analysis Requested	Lab ID: Field ID: Depth: Matrix: Sampled:	184545 001 MW-1 Liquid 11/17/98 11:00	· ·	
Total Metals by ICP-MS ICP-MS Metal	Analyzed: Units:	11/30/98 R.L.		
Cobalt	l	< 0.028 (0.028)	· · · · · · · · · · · · · · · · · · ·	 
Copper		< 0.028 (0.028)	· · · · · · · · · · · · · · · · · · ·	 
Iron	·····.	< 0.56 (0.56)		 <u> </u>
Lead		< 0.011 (0.011)		
Magnesium		53.6 (0.6)		
Manganese		0.082 (0.056)		
Mercury		< 0.002 (0.002)		
Molybdenum		< 0.056 (0.056)		
Nickel		< 0.056 (0.056)		
Potassium		6.389 (2.778)		 
Selenium		< 0.050 (0.050)		
Silver		< 0.028 (0.028)		· · · · · · · · · · · · · · · · · · ·
Strontium		3.301 (0.556)		
Tin		< 1.11 (1.11)		 · ··· · ·
Vanadium		0.049 (0.028)		
Zinc		< 0.028 (0.028)		
Anions by Ion Chromatography EPA 300.0	Analyzed: Units:	11/25/98 R.L. mg/L		
Chloride		412 (4)		 
Sulfate		228 (4)		

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.

Eddle L. Clemons, II QA/QC Manager



## Certificate Of Quality Control for Batch : 18A48A35

## EPA SW846/6020 Total Metals by ICP- MS

Date Validated: Dec 1, 1998 13:17 Date Analyzed: Nov 30, 1998 14:44 Analyst: MAB

Matrix: Liquid

		8 <u>-</u>	BLANK SPI	KE ANALY	SIS		
		[B]	[C]		(E)	[F]	[G]
	Blank	Blank Spike	Blank	ļ	QC	LIMITS	]
Parameter	Result	Result	Spike	Detection	Blank Spike	Recovery	Qualifier
	1		Amount	Limit	Recovery	Range	
	mg/L	mg/L	mg/L	mg/L	%	%	
Aluminum -	< 0.56	2.37	2.20	0.56	107.7	70-125	
Arsenic	< 0.0278	2.1350	2.2000	0.0278	97.0	70-125	
Barium	< 0.0278	1.0039	1.1000	0.0278	91.3	70-125	
Beryllium	< 0.0056	0.4422	0.4440	0.0056	99.6	70-125	
Cadmium	< 0.0056	0.4200	0.4440	0.0056	94.6	75-125	
Chromium	< 0.0111	1.0872	1.1000	0.0111	98.8	70-125	
Cobait	< 0.0278	1.1072	1.1000	0.0278	100.7	70-125	
Copper	< 0.0278	1.0511	1.1000	0.0278	95.6	70-125	
Iron	< 0.556	2.778	2.222	0.556	125.0	70-125	
Lead	< 0.0111	2.0578	2.2200	0.0111	92.7	70-125	
Magnesium	< 0.56	4.33	4.44	0.5 <del>6</del>	97.5	70-125	
Manganese	< 0.0556	2.2650	2.2200	0.0556	102.0	70-125	
Mercury	< 0.0028	0.0033	0.0028	0.0028	117.9	75-125	
Nickel	< 0.0278	1.0933	1.1000	0.0278	99.4	70-125	
Potassium	< 2.778	4.556	4.400	2.778	103.5	70-125	
Selenium	< 0.0556	2.1550	2.2000	0.0556	98.0	70-125	
Silver	< 0.0278	0.8783	1.1000	0.0278	79.8	70-125	
Strontium	< 0.556	2.030	2.200	0.556	92.3	70-125	
Vanadium	< 0.0278	1.0461	1.1000	0.0278	95.1	70-125	
Zinc -	< 0.0278	1.0078	1.1000	0.0278	91.6	70-125	

Blank Spike-Recovery [E] = 100\*(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

lemons, II Eddie Ľ DA/QC Manager

Certificate Of Quality Control for Batch: 18A48A35

EPA SW846/6020 Total Metals by ICP- MS

Date Analyzed: Nov 30, 1998 15:03 Date Validated: Dec 1, 1998 13:17

Matrix: Liquid Analyst: MAB

	2	IATRIX DUPI	LICATE AN	IALYSIS	•		MATRIX	SPIKE ANAL)	(SIS	
			123					-		
Q.C. Sample ID		5	2	โกไ	<u> </u>	[4]	[0]	E		
184545. ANI	cample	Duplicate 		ပ္မ	LIMITS	Matrix Spike	Matrix	00	I IMITS	<u> </u>
	Result	Result	Detection	Relative	Relative	Result	Snike	Matrix Snitz		
Parameter			Limit	Difference	Difference		Amount	Recovery	Range	Qualifier
	119/1	mg/L	mg/L	*	*	mg/L	mg/L	70	ìà	
Aluminum	< 0.556	< 0.556	0.556	C N	25.0		,	2	e,	
Arsenic	< 0.0278	< 0.0278	0.0278			2.321	2.20	105.5	70-125	
Barium	0.0817	0.0822	0.028		23.U	21712	2.200	98.7	70-125	
Beryllium	< 0.0056	< 0.0058	O DOED		0.65	1.1000	1.100	92.6	70-125	
Cadmium	< 0.0056	<0.0056		ראיר איר	25.0	0.4267	0.444	96.1	70-125	
Chromium	< 0.0111	< 0.0111	0.0000	z z	20.0	0.3961	0.444	89.2	75-125	
Cobalt	< 0.0278	< 0.0278	0.0070	z z z	29.0 79.0	1.0544	1.100	95.9	70-125	
Copper	< 0.0278	< 0.0278	0.0270		25.0 25.0	1.0928	1.100	6.99.3	70-125	
Iron	< 0.556	< 0.556	0.556		20.U	1.0133	1.100	92.1	70-125	
Lead	< 0.0111	< 0.0111	0.0111			2.667	2.22	120.1	70-125	
Magnesium	53.61	54 94	0.58	2.5	23.U	2.1428	2.220	96.5	70-125	
Manganese	0.0817	0.082B	00.0	C 7	22.0	52.22	4.4	31.3	70-125	A.B
Mercury	< 0.0028	8000		2	0 <sup>.</sup> 07	2.1378	2.220	92.6	70-125	
		2200	0700.0	z	20.0	0.0028	0.003	100.0	75-125	

(A) High analyte concentration affects spike recovery.

(B) LCS within acceptance limits.

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

Matrix Spike Recovery [H] = 100°(F-A)/[G]

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



ddie L. Clemofis, II of Arac Manager

Certificate Of Quality Control for Batch: 18A48A35

EPA SW846/6020 Total Metals by ICP- MS

Date Analyzed: Nov 30, 1998 15:03 Date Validated: Dec 1, 1998 13:17

Analyst: MAB

Matrix: Liquid

	ž 	IATRIX DUPL	ICATE AN	IALYSIS			MATRIX	SPIKE ANALY	'SIS	
	N N		5							
Q.C. Sample ID		5	2		IJ	E	[ <u>[</u> ]	EHI HI		[0]
BASAS, AAI	Sample	Duplicate		ပ္မ	LIMITS	Matrix Spike	Matrix	ç	LIMITS	•
	Result	Result	Detection	Relative	Relative	Result	Spike	Matrix Sniko	Decent	
Parameter			Limit	Difference	Difference		Amount	Recovery	Ranne	Qualifier
	mg/L	mg/L	mg/L	. *	*	mg/L	ma/L	2	o Rum	
Nickel	< 0.0770	02000						2	%	_
	0/70.0	8/70'0 s	U.0278	U Z	25.0	1.0678	1,100	1 79	70.125	T
Potassium	6.3889	6.5556	2.7778	26	25.0				C71-01	
Selenium	< 0.0556	0.000			2.22	0.0444	4.400	80.8	70-125	
	00000	<ul><li>&lt; 0.0556</li></ul>	0.0556	N.C	25.0	2.0839	2 200	- ¥0	70.406	
Silver	< 0.0278	< 0.0278	0.0278	C N	25.0	0505.0		7. FC	GZT-U/	
Strontium	3,3006		0 440		2.52	8080 D	1.100	35.8	70-125	æ
Varadium	8	7700.0	u.2525	1.8	25.0	4.9861	2.200	76.6	70-125	ľ
	0.0489	0.0494	0.0278	1.0	25.0	1 0020				
Zinc	< 0.0278	4 0.078	0.0370			BCBD'I	N01.1	95.0	70-125	
		D1300	6/7n'n	נ z	25.0	0.9139	1.100	83.1	70-125	

(A) High analyte concentration affects splike recovery. (B) LCS within acceptance limits.

Relative Difference [D] = 200"(B-A)/(B+A)

Matrix Spike Recovery [H] = 100\*(F-A)/[G]

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

Houston - Dallas - San Antonio

Eddie L. (Clephons, 11 SANGE Manager

3

XENCO Laboratories

Certificate Of Quality Control for Batch: 18A05E12

## SW846-7470 Total Mercury

Date Validated: Nov 30, 1998 16:21 Date Analyzed: Nov 30, 1998 14:10

Analyst: CG

Matrix: Liquid

	2	ATRIX DUPL	ICATE AN	ALYSIS			MATRIX	SPIKE ANALY	SIS	
		[8]		[0]	E		[0]	H		[0]
and the suble suble	Sample	Duplicate		ပ္ပ	LIMITS	Matrix Spike	Matrix	ç	LIMITS	
<b>184545- 001</b>	Result	Result	Detection	Relative	Relative	Result	Spike	Matrix Spike	Recovery	Qualifier
			Limit	Difference	Difference		Amount	Recovery	Range	
rarameter	mg/L	mg/L	mg/L	*	*	mg/L	mg/L	*	*	
Mercury	< 0.0011	< 0.0011	0.0011	N.C	25.0	0.0026	0.003	92.9	70-120	

Relative Difference {D} = 200\*(B-A)/(B+A) Matrix Spike Recovery {H} = 100\*(F-A)/(G] 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

Houston - Dallas - Son Antonio

Eddie L. Clemons, II CAVEC Manager



Certificate Of Quality Control for Batch 1, 18A25E18

## BTEX SW- 846 5030/8021B

Date Validated: Nov 25, 1998 16:00 Date Analyzed: Nov 24, 1998 14:33

Analyst: HL

Matrix: Liquid

			BLAN	IK SPIKE /	BLANK SP	IKE DÚPLI	CATE AND RE	ECOVERY			
	[M]	<b>E</b>	[]	ē	Ð	Blank	[6]	5	Ē	E	5
	Blank	Blank Spike	Blank Spike	Blank		Limit	oc	8	S	Blank Spike	
Parameter	Result	Result	Duplicate	Spike	Detection	Relative	Spike Relative	Blank Spike	B.S.D.	Recovery	Qualifier
			Result	Amount	Limit	Difference	Difference	Recovery	Recovery	Range	
	mqq	mqq	mqq	mqq	mqq	*	*	*	*	*	
Benzene	< 0.0010	0.0975	0.1020	0.1000	0.0010	20.0	4.5	97.5	102.0	65-135	
Toluene	< 0.0010	0.0968	0.0979	0.1000	0.0010	20.0	1.1	96.8	6.79	65-135	
Ethylbenzene	< 0.0010	0.0954	0960.0	0.1000	0.0010	20.0	0.6	95.4	96.0	65-135	<b> </b>
m.p-Xylene	< 0.0020	0.1930	0.1980	0.2000	0.0020	20.0	2.6	96.5	0.66	65-135	
o-Xylene	< 0.0010	0.0982	0.1000	0.1000	0.0010	20.0	1.8	98.2	100.0	65-135	



All results are based on MDL and validated for QC purposes Spike Relative Difference [F] = 200\*(B-C)/(B+C) N.D. = Below detection limit or not detected Blank Spike Recovery [G] = 100\*(B-A)(D] B.S.D. Recovery [H] = 100\*(C-A)/[D] B.S.D. = Blank Spike Duplicate

Houston Dollos Son Antonio

QA/QC Manager

XENCO Laboratorics

Certificate Of Quality Control for Batch :: 18A20C23

## SM 4500C02D Bicarbonate

Date Validated: Nov 25, 1998 15:48

Date Analyzed: Nov 25, 1998 14:45

Analyst: IF

Matrix: Liquid

			BLANK SPII	KE ANALY:	SIS	-	
	[A]	(B)	[C]	[0]	(E)	(F)	[G]
	Blank	Blank Spike	Blank		ac	LIMITS	1
Parameter	Result	Result	Spike	Detection	Blank Spike	Recovery	Qualifier
1			Amount	Limit	Recovery	Range	ļ
	mg/L	mg/L	mg/L	mg/L	%	%	
Bicarbonate	< 4.00	260	250	4.00	104.0	70-125	

Blank Spike Recovery [E] = 100\*(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

die L. Clemons, II

QA/QC Manager

Houston - Dallas - San Antonio



Certificate Of Quality Control for Batch : 18A20C23

## SM 4500CO2D Bicarbonate

Date Validated: Nov 25, 1998 15:48 Date Analyzed: Nov 25, 1998 15:25 Analyst: IF

Matrix: Liquid

		MATRIX	DUPLICAT	E ANALYS	SIS J	
Q.C. Sample ID	[A] Sample	[B] Duplicate				(F)
184545-001	Resuit	Result	Detection	Relative	Relative	Qualifier
Parameter	mg/L	mg/L	Limit mg/L	Difference %	Difference %	
Bicarbonate	405	403	4.00	0.5	25.0	

Relative Difference [D] =  $200^{\circ}(B-A)/(B+A)$ N.C.  $\approx$  Not calculated, data below detection limit N.D.  $\approx$  Below detection limit All results are based on MDL and validated for QC purposes only

die L. Clemons, II

QA/QC Manager



Certificate Of Quality Control for Batch :: 18A20C22

## SM4500CO2D Carbonate

Date Validated: Nov 25, 1998 15:48 Date Analyzed: Nov 25, 1998 15:25 Analyst: IF

Matrix: Liquid

		MATRIX	DUPLICAT	EANALYS	SIS:	· .
Q.C. Sample ID	[A] Sample	[B] Duplicate	[C]	[D] QC	[E] LIMITS	[4]
184545- 001	Result	Result	Detection	Relative	Relative	Qualifier
Parameter	mg/L	mg/L	mg/L	%	%	
Carbonate	< 4.00	< 4.00	4.00	N.C	25.0	

Relative Difference [D] = 200°(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

doie L. Clemons, II

QA/QC Manager



## Certificate Of Quality Control for Batch : 18A47A08

## EPA 160.1 Total Dissolved Solids

Date Validated: Nov 25, 1998 15:00 Date Analyzed: Nov 25, 1998 14:30 Analyst: JO

Matrix: Liquid

		MATRIX	DUPLICAT	EANALYS	SIS Alternation	
A.C. Sample III		[B]	ା	[0]	[E]	F
	Sample	Duplicate		QC	LIMITS	1
184493- 003	Result	Result	Detection	Relative	Relative	Qualifier
Basassatas			Limit	Difference	Difference	
Parameter	mg/L	mg/L	mg/L	%	%	
Total Dissolved Solids	384	383	5.00	0.3	25.0	

Relative Difference [D] ≈ 200\*(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

<u>dit</u> Eddie L. Clemens, II

QA/QC Manager



## Certificate Of Quality Control for Batch:: 18A46A78

## EPA 6010 Total Metals (ICP)

Date Validated: Dec 3, 1998 08:58 Date Analyzed: Dec 2, 1998 14:17 Analyst: CG Matrix: Liquid

			BLANK SPI	KE ANALY	SIS		
	[A]	[B]	[C]	[D]	(E)	(F)	[G]
	Blank	Blank Spike	Blank	}	QC	LIMITS	
Parameter	Result	Result	Spike Amount	Detection Limit	Blank Spike Recovery	Recovery Range	Qualifier
	mg/L	mg/L	mg/L	mg/L	%	%	
Boron .	₹ 0.111	2.109	2.220	0.111	95.0	70-125	
Calcium	< 1.111	4.373	4.444	1.111	98.4	70-125	
Silicon	< 0.556	4.641	4.440	0.556	104.5	70-125	
Sodium	< 1.11	14.00	13.32	1.11	105.1	70-125	
Tin	< 0.222	2.311	2.220	0.222	104.1	70-125	

lank Spike Recovery [E] = 100\*(B-A)/(C) .C. = Not calculated, data below detection limit .D. = Below detection limit Il results are based on MDL and validated for QC purposes only

Eddie L. Clemens, II

XENCO

Certificate Of Quality Control for Batch: 18A46A78

## EPA 6010 Total Metals (ICP)

Date Validated: Dec 3, 1998 08:58 Date Analyzed: Dec 2, 1998 14:28

Analyst: CG Matrix: Liquid

	W 	ATRIX DUPL	ICATE AN	ALYSIS			MATRIX	SPIKE ANALY	SIS	
	[v]			[0]	<u>[</u> ]	E	[0]	L (H)	[1]	<u>و</u>
w.c. Sample au	Sample	Duplicate		S	LIMITS	Matrix Spike	Matrix	ç	LIMITS	
<b>184545-001</b>	Result	Result	Detection	Relative	Relative	Result	Spike	Matrix Spike	Recovery	Qualifier
			Limit	Difference	Difference		Amount	Recovery	Range	<u>_</u>
rarameter	mg/L	mg/L	mg/L	%	*	mg/L	mg/L	%	%	
Boron	0.756	092.0	0.111	: 0.5	25.0	2.772	2.22	90.8	70-125	
Calcium	372	372	1.11	0.0	25.0	324	4.4	1081	70-125	A,B
Silicon	31.77	32.03	0.56	0.8	25.0	32.41	4.4	14.4	70-125	A,B
Sodium	430	434	1.11	0.9	25.0	384	4.4	1036	70-125	A,B
Tin	< 0.222	< 0.222	0.222	N.C	25.0	2.333	2.22	105.1	70-125	

 (A) High analyte concentration affects spike recovery.
 (B) Post-digestion spike within acceptance limits. Relative Difference [D] = 200"(B-A)/(B+A)

Matrix Spike Recovery [H] = 100°(F-A)/(G] 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

Houston - Dallas - San Antonio

Eddie L. Clehnefns, II DRVDC Manager

Page



Certificate Of Quality Control for Batch: 18A10C86

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# EPA 300.0 Anions by Yon Chromatography

 Date Validated:
 Dec 8, 1998
 09:13

 Date Analyzed:
 Nov 25, 1998
 20:57

Analyst: OR

Matrix: Liquid

			BLA	NK SPIKE /	BLANK SF	AIKE DUPLI	CATE AND R	ECOVERY			
	[V]	[8]	5	٩	E	Blank	E)	[0]	Ē	E	5
	Blank	Biank Spike	Blank Spike	Blank		Limit	gC	gc	gc	Blank Spike	
Parameter	Result	Result	Duplicate	Spike	Detection	Relative	Spike Relative	Blank Spike	B.S.D.	Recovery	Qualifier
			Result	Amount	Limit	Difference	Difference	Recovery	Recovery	Range	
	mg/L	mg/L	mg/L	mg/L	mg/L	*	*	*	*	*	
Chloride	< 0.20	4.78	4.09	5.00	0.20	20.0	15.6	95.6	81.8	70-125	
Nitrate	< 0.20	4.07	4.41	5.00	0.20	20.0	8.0	81.4	88.2	70-125	
Sulfate	< 0.20	4.26	4.51	5.00	0.20	20.0	5.7	85.2	90.2	70-125	

Spike Relative Difference [F] = 200°(B-C)(B+C) Blank Spike Recovery [G] = 100°(B-A)/[D] B.S.D. = Blank Spike Duplicate B.S.D. Recovery [H] = 100°(C-A)/[D] N.D. = Below detection limit or not detected All results are based on MDL and validated for QC purposes

Houston Dollas, Son Datonia

die L. Clemons, **QA/QC Manager** 



Certificate of Quality control for Batch - 18A:10C86

## EPA 300.0 Anions by Ion Chromatography

Date Validated: Dec 8, 1998 09:13 Date Analyzed: Nov 25, 1998 23:37 Analyst: OR

Matrix: Liquid

		MATRIX	DUPLICATI	EANALYS	IS	
Q.C. Sample ID		[8]	[C]	[מ]	[E]	[7]
184546. 001	Sample	Duplicate		QC	LIMITS	
	Result	Result	Detection	Relative	Relative	Qualifier
Parameter			Limit	Difference	Difference	
	mg/L	rng/L	rng/L	%	%	
Chloride	209	212	4.0	1.4	20.0	
Sulfate	76.0	78.0	4.0	2.6	20.0	

Relative Difference [D] = 200\*(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

A ddie L. Clemons, II

QA/QC Manager



### 

## EPA 300.0 Anions by Ion Chromatography

Date Validated: Dec 8, 1998 09:13 Date Analyzed: Nov 25, 1998 23:04

. . . .

Analyst: OR

Matrix: Liquid

		MATRIXI	IUPLICAT	EANALYS	IIS F	
O.C. Sample ID	[A]	[8]		[0]	[E]	[F]
194565_ AIC	Sample	Duplicate		QC	LIMITS	
184999- 019	Result	Result	Detection	Relative	Relative	Qualifier
Baramotor	]		Limit	Difference	Difference	
Fafalineter	mg/L	mg/L	mg/L	%	%	
Nitrate	77.0	78.0	8.0	1.3	20.0	
Sulfate	1050	1130	8.0	7.3	20.0	

Relative Difference [D] = 200\*(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

dole L. Clemons, II

QA/QC Manager

Page 1

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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|            | T 210-680-3767 Lab Only: 184545 - 5A                                                        | Image: Notice Project ID     Phone     Lab Only:     [ $\mathcal{A}$ 45 45 - 5 $\mathcal{H}$ Lab Only:     [ $\mathcal{A}$ 48h $\mathcal{A}$ 5d $\mathcal{A}$ 14d $\mathcal{I}$ 4d $\mathcal{A}$ 4d       Name     [] Previously done at XENCO     Project ID     IAT: 5h     12h     20h     24h     48h     3d     5d     7d     14d     21d     Additions       0.2.8     [] Previously done at XENCO     Project ID     Inclusion of the reported in $\mathcal{A}$ 14d     21d $\mathcal{A}$ 100/06/16/10 $\mathcal{D}$ 000     1 | IV<br>TPhonePhoneLab Only:Lab Only:N<br>Additions $\therefore$ $210 - 680 - 3767$ Lab Only: $[84545 - 5]$ $A$ | VPhonePhoneLab Only:VJJLab Only:I an onlyI an only <th< td=""><td>V<br/>ImagePhonePhoneLab Only:I alb Only:<math>[A + 5 + 5] - 5 + 3]</math>Lab Only:<math>[A + 5 + 5] - 5 + 3]</math>Lab Only:<math>[A + 5 + 5] - 5 + 3]</math>Lab Only:<math>[A + 5 + 5] - 5 + 3]</math>AdditionsImage<math>[D + eviousty done at XENCOProject IDInt: 5h 12h 20h 24h 48h 3d 5d 7d 14d 21d 610-ndard IAT is 10 Working DowsIndiationsIndiationsImage<math>[D - 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## **ANALYTICAL REPORT 1-84622**

for

K.E.I. Consultants, Inc.

**Project Manager: Stan Grover** Project Name: 710028-1-0

Project Id: 710028-1-0

December 14, 1998



HOUSTON - DALLAS - SAN ANTONIO

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11381 Meadowglen Lane Suite L \* Houston, Texas 77082-2647 Fax (281) 589-0695 Phone (281) 589-0692

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

December 14, 1998

Project Manager: Stan Grover K.E.I. Consultants, Inc. 5309 Wurzbach Rd. Suite 100 San Antonio, TX 78238

Reference: XENCO Report No.: 1-84622 Project Name: 710028-1-0 Project ID: 710028-1-0 Project Address: Lea Co., NM.

Dear Stan Grover:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with XENCO Chain of Custody Number 1-84622. All results being reported to you apply only to the samples analyzed, properly identified with a Laboratory ID number. This letter documents the official transmission of the contents of the report and validates the information contained within.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 3 years in our archives and after that time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in COC No. 1-84622 will be filed for 60 days, and after that time they will be properly disposed of without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

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

Sincerely,

Eddie L. Clemons, QA/QC Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY!



## ANALYTICAL CHAIN OF CUSTODY REPORT CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project Name: 710028-1-0

Project ID: 710028-1-0 Project Manager: Stan Grover Project Location: Lea Co., NM.

X6NCO COC#: 1-84622 Date Received in Lab: Dec 1, 1998 10:05 by JO

XENCO CONTACt : Carlos Castro/Karen Olson

							Date	and lime	
Field ID	Lab. ID	Method Name	<b>Method</b>	Units	Turn Around	Sample Collected	Addition	Extraction	Analysis
1 MW-1	184622-001	PAHS	SW846-8270	лgт	10 days	Nov 30, 1998 14:00		Dec 2, 1998 by RK	Dec 3, 1998 10:56 by MM

Houston • Dallas • San Antonio

Page



## CERTIFICATE OF ANALYSIS SUMMARY 1-84622

and the second second

## K.E.I. Consultants, Inc. Project Name: 710028-1-0

Project ID: 710028-1-0 Project Manager: Stan Grover Project Location: Lea Co., NM.

Date Received in Lab : Dec 1, 1998 10:05 Date Report Faxed: Dec 14, 1998 xenco contact : Carlos Castro/Karen Olson

Analysis Requested	Lab ID: Field ID: Depth: Matrix: Sampled:	184622 00 MW-1 Liquid 11/30/98 14	:00		
PAHs by GC-MS	Analyzed:	12/03/98	R.L.		
EPA 8270	Units:	mg/L			
Acenaphthene		< 0.002	(0.002)		
Acenaphthylene		< 0.002	(0.002)		
Anthracene		< 0.002	(0.002)		
Benz(a)anthracene		< 0.002	(0.002)		
Benzo(a)pyrene		< 0.002	(0.002)		
Benzo(b)fluoranthene		< 0.002	(0.002)		
Benzo(g,h,i)perylene		< 0.002	(0.002)		
Benzo(k)fluoranthene		< 0.002	(0.002)		
Chrysene		< 0.002	(0.002)		
Dibenz(a,h)anthracene		< 0.002	(0.002)		
Fluoranthene		< 0.002	(0.002)		
Fluorene		< 0.002	(0.002)		
Indeno(1,2,3-cd)pyrene		< 0.002	(0.002)		
Naphthalene		< 0.002	(0.002)		
Phenanthrene		< 0.002	(0.002)		
Pyrene		< 0.002	(0.002)		

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

Et.	Alant	
	Eddie L. Clemons, II	

QA/QC Manager

**XENCO** Interdenter

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Certificate Of Quality Control for Batch: 18A02D79

# SW846- 8270 PAHs by GC- MS

 Date Validated:
 Dec 14, 1998
 12:00

 Date Analyzed:
 Dec 3, 1998
 03:44

Analyst: MM

Matrix: Liquid

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Gede & Unaue Eddie L. Clemons, II QA/QC Manager Ś

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### QA/QC PROCEDURES

### DECONTAMINATION OF EQUIPMENT

Cleaning of drilling equipment was the responsibility of the drilling company. In general, the cleaning procedures consisted 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 was cleaned with Liqui-Nox detergent and rinsed with distilled water.

### SOIL SAMPLING

Samples of the subsurface soils were obtained utilizing an air rotary drilling rig with split spoon samples at discrete intervals. Representative soil samples were divided into 2 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 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 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.

Soil samples were express mailed to Xenco Laboratories of San Antonio, Texas for BTEX, and TPH-DRO analyses using the methods described below. Soil samples were prepared for analysis by the analytical laboratory for BTEX and TPH concentrations within 14 days following the collection date.

The soil samples were analyzed in accordance with the methods as follows:

- BTEX concentrations in accordance with EPA Method SW846-8021B
- TPH concentrations in accordance with modified EPA Method 8015-DRO

### GROUND WATER SAMPLING

The monitoring well was developed and purged with a clean PVC bailer. The bailer was cleaned prior to each use with Liqui-Nox detergent and rinsed with distilled water. The monitoring well had sufficient recharge and was purged by removing a minimum of 3 well volumes.

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

The ground water sample collected for BTEX analysis was placed in two 40 ml glass VOA vials equipped with Teflon-lined caps. The containers provided were pre-preserved with HCl by the analytical laboratory. The vials were filled to a positive meniscus, sealed, and visually checked to ensure the absence of air bubbles.

The ground water sample collected for PAH and Cations/Anions analyses was filled to capacity in 2 sterile, 1 liter glass containers equipped with Teflon-lined caps. The ground water sample collected for metals analysis was filled to capacity in a 1 liter plastic container pre-preserved with  $HNO_3$  and equipped a with Teflon-lined cap. The ground water sample collected for TDS analysis was filled to capacity in a sterile, 500 ml plastic container equipped with a Teflon-lined cap. The containers were provided by the analytical laboratory.

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

The ground water samples were analyzed in accordance with the methods as follows:

- BTEX concentrations in accordance with EPA Method SW846-8021B
- Metals concentrations in accordance with EPA ICP Method 6010
- PAH concentrations in accordance with EPA Method 8270
- Anion concentrations in accordance with EPA Method 300
- Cation concentrations in accordance with SM Method 4500CO2D
- TDS concentrations in accordance with EPA Method 160.1

### LABORATORY PROTOCOL

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



### RECEIVED

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ENVIRONMENTAL BUREAU OIL CONSERVATION DIVISION

### SUBSURFACE INVESTIGATION REPORT

TEXAS - NEW MEXICO PIPE LINE COMPANY TNM-97-14 LEA COUNTY, NEW MEXICO



5309 Wurzbach, Suite 100 Son Antonio, Texas 78238 (210) 680-3767 (210) 680-3763 FAX

### SUBSURFACE INVESTIGATION REPORT

### TEXAS - NEW MEXICO PIPE LINE COMPANY TNM-97-14 LEA COUNTY, NEW MEXICO

**PREPARED FOR:** 

TEXAS - NEW MEXICO PIPE LINE COMPANY P. O. Box 1030 Jal, New Mexico 88252

Mr. Tony Savoie

PREPARED BY:

KEI

c h á

Theresa Nix Project Manager

Paul B. Hartnett, P.E. Senior Engineer

KEI Job No. 710028

EXECUTIVE SUMMARY	1
PURPOSE AND SCOPE	2
FIELD INVESTIGATION SOIL INVESTIGATION SOIL DESCRIPTION SOIL SAMPLING AND ANALYTICAL RESULTS GROUND WATER SAMPLING AND ANALYTICAL RESULTS	2
CONCLUSIONS	4
STAGE 1 ABATEMENT PLAN	5
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GENERAL NOTES

TABLE I - SUMMARY OF SOIL LABORATORY RESULTS - BTEX AND TPH

TABLE II - SUMMARY OF GROUND WATER LABORATORY RESULTS - BTEX

### **APPENDICES**

**APPENDIX A - ANALYTICAL LABORATORY REPORTS** CHAIN-OF-CUSTODY DOCUMENTATION

### EXECUTIVE SUMMARY

The Texas - New Mexico Pipe Line Company (TNMPL) release site TNM-97-14 is located approximately five miles south of Monument, New Mexico, in Section 8, Township 20 North, Range 37 East. A site location map is presented as FIG. 1. This report summarizes subsurface investigation activities conducted October 17, 1997.

Subsurface investigation activities performed included the following:

- installing temporary monitoring wells TMW-1 and TMW-2
- collection of native soil samples from the temporary monitoring wells for analysis of benzene, toluene, ethylbenzene, and xylenes (BTEX) and total petroleum hydrocarbons (TPH) concentrations;
- collecting ground water samples from temporary monitoring wells TMW-1 and TMW-2 for analysis of BTEX and polycyclic aromatic hydrocarbon (PAH).

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
ТРН	100 + Background Concentration

- Soil samples at the site indicated TPH, benzene, and BTEX concentrations below these closure standards.
- Phase-separate hydrocarbon (PSH) was not observed in either of the temporary monitoring 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 evaluate depth to ground water across the site. The following activities were performed to achieve this objective:

- install two temporary monitoring wells
- collect soil and ground water samples for analysis of hydrocarbon concentrations

### FIELD INVESTIGATION

### SOIL INVESTIGATION

During the subsurface investigation, two temporary monitoring wells (designated TMW-1 and TMW-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 temporary monitoring wells were prepared and shipped to the laboratory for analysis.

Upon advancement to total depth and collection of soil and ground water samples, the temporary well was removed. The borings were grouted and capped at the surface.

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 locations of the temporary monitoring wells 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, three soil types were encountered. A general description of the soil, approximate thickness, and head-space sample results for each soil type are as follows:

### <u>Soil Type I</u>

This soil type consisted of a tan to brown sand and was encountered at the surface of both temporary monitoring well locations. The sand was slightly coarse, moist to dry, and contained calcareous nodules. This soil type thickness ranged from approximately 6 to 23 feet. Head-space readings from samples of this soil type were non-detectable (ND).

### <u>Soil Type II</u>

This soil type consisted of a white to tan gravel (caliche) and was encountered beneath Soil Type I at temporary monitoring well TMW-2. The gravel was weathered and varied in thickness from approximately 4 to 8 feet. The head-space reading from a sample of this soil type was ND.

### Soil Type III

This soil type consisted of a brown clay and was encountered at both temporary monitoring well locations. The clay was sandy, moist to wet, and contained calcareous nodules. This soil type varied in thickness from approximately 6 to 10 feet. The head-space readings 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 on FIG. 4.

### SOIL SAMPLING AND ANALYTICAL RESULTS

Native soil samples were collected at selected intervals from the ground surface to a depth at approximately 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.

Two soil samples were selected from each soil boring based on the following criteria:

- The sample at 10 to 12 feet below ground surface; and
- The sample directly above the ground water level measured at the time of drilling.

Four soil samples from the temporary monitoring wells were selected for determination of BTEX and TPH concentrations by EPA Method SW846-8020 and Modified 8015 Diesel Range Organics (DRO), respectively.

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

CONSTITUENT	CONCENTRATIONS (mg/kg)
BENZENE	ND to 0.052
BTEX	ND to 0.315
TPH	16.6 to 19.8

Soil laboratory results are summarized in TABLE I. BTEX and TPH laboratory results are also graphically presented on FIG. 3. Analytical laboratory reports are included in APPENDIX A.

### GROUND WATER SAMPLING AND ANALYTICAL RESULTS

Upon completion of drilling, a temporary well consisting of two-inch PVC was placed in each boring to collect ground water samples. Each temporary 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 each of the temporary monitoring 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 PAH analysis were placed in sterile one liter glass 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 shipment to Xenco Laboratories in San Antonio, Texas for determination of BTEX and concentrations using EPA Method SW846-8020 and 8100, respectively. Proper chain-of-custody documentation was maintained throughout the sampling process.

CONSTITUENT	CONCENTRATIONS (mg/L)
BENZENE	ND
BTEX	ND to 0.001
PAHs	ND

Laboratory results indicated the following concentration ranges:

Ground water BTEX laboratory results are summarized in TABLE II. Laboratory results are graphically presented on FIG. 5. Analytical laboratory reports are included in APPENDIX A.

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 from each of the temporary monitoring wells indicated BTEX and TPH concentrations below closure standards.
- PSH was not observed in the temporary monitoring wells.

• Ground water samples obtained from the temporary monitoring wells indicated BTEX concentrations below New Mexico Drinking Water Standards.

### STAGE 1 ABATEMENT PLAN

Although the field investigation results presented above do not indicate hydrocarbon concentration results above closure standards, PSH is currently observed on top of water within the excavation on-site. As a result, additional subsurface investigation activities shall be conducted at the site to determine site geology, site hydrogeology, vertical and horizontal extent, and magnitude of vadose-zone and ground water impact. A workplan will be developed to address additional subsurface investigation activities. Upon OCD approval, implementation of the plan, and data review, a remediation plan and subsequent schedule will be prepared and submitted to OCD.

THE ROADS OF NEW MEXICO

NEW MEXICO-LEA CO.

MONUMENT











### **GENERAL NOTES**

ND - Indicates constituent was not detected above the method detection limit. PSH - Phase-separate hydrocarbons.

Method detection or reporting limits:

Soil:	BTEX	-	0.050 to 0.300 mg/kg
	TPH	-	10 mg/kg
Water:	BTEX PAH	-	0.001 to 0.006 mg/l 0.002 mg/l
Laboratory test methods:	BTEX	-	EPA Method SW846-8020
	TPH	-	Modified EPA Method 8015 Diesel Range Organics
	PAH	-	EPA Method 8100

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### TABLE I

### SUMMARY OF SOIL LABORATORY RESULTS - BTEX AND TPH TEXAS - NEW MEXICO PIPE LINE COMPANY TNM-97-14 LEA COUNTY, NEW MEXICO

SAMPLE	DATE SAMPLED	SAMPLE DEPTH (feet)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL- BENZENE (mg/kg)	XYLENES (mg/kg)	BTEX (mg/kg)	TPH (mg/kg)
TMW-1	10/17/97	10 - 12	0.052	0.051	0.050	0.162	0.315	17.3
TMW-1	10/17/97	28 - 30	ND	ND	ND	ND	ND	16.6
TMW-2	10/17/97	10 - 12	ND	ND	ND	ND	ND	19.8
TMW-2	10/17/97	28 - 30	ND	ND	ND	0.118	0.118	16.9

### TABLE II

### SUMMARY OF GROUND WATER LABORATORY RESULTS - BTEX TEXAS - NEW MEXICO PIPE LINE COMPANY TNM-97-14 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)
TMW-1	10/17/97	ND	ND	ND	ND	ND
TMW-2	10/17/97	ND	0.001	ND	ND	0.001

Project ID:         TODE         ALE.I. Consultants, Inc.         Exercise of al. 1987         O.0.21, 1987         O.0.21, 1987         O.0.00 y.AS           Project ID:         Therea Mix         Therea Mix         Date Received in Lab.: O.0.21, 1987         Date Received in Lab.: O.0.21, 1987         O.0.21, 1987         O.0.00 y.AS           Project I constort:         Therea Mix         Therea Mix         Therea Mix         Therea Mix         Therea Constant         Constan		J						٩									
Project Manager: Thereas Nix         Data Report Faxet: Oct 27: 1937         Cut 27: 1937 <th 2<="" colspan="6" cut="" th=""><th>Project ID: 710028</th><th></th><th></th><th>K.E.I. C Projec</th><th>Consultant t Name: TNN</th><th>s, Inc. APL</th><th>Date R</th><th>eceived in La</th><th><b>ab</b>: Oct 21, 1</th><th>997 10:00 by A</th><th>s s</th></th>	<th>Project ID: 710028</th> <th></th> <th></th> <th>K.E.I. C Projec</th> <th>Consultant t Name: TNN</th> <th>s, Inc. APL</th> <th>Date R</th> <th>eceived in La</th> <th><b>ab</b>: Oct 21, 1</th> <th>997 10:00 by A</th> <th>s s</th>						Project ID: 710028			K.E.I. C Projec	Consultant t Name: TNN	s, Inc. APL	Date R	eceived in La	<b>ab</b> : Oct 21, 1	997 10:00 by A	s s
Project Location: TMMPL Receas         XERC contact: Callos Casico Extension         TX2844001         T72844001         T7284001         T72844001         T728	Project Manager: Theresa Nix						Date	Report Fax	ced: Oct 27, 1	. 266							
Analysis Requested         Taken ton Free/LD         Tr254-400         Tr254-400         Tr254-400         Tr254-400         Tr254-400         Tr244-401         Tr244-401 <thtr244-401< th=""> <thtr244-401< th="">         Tr244-401&lt;</thtr244-401<></thtr244-401<>	Project Location: TNMPL Reeves							XENCO conta	act : Carlos Ca	astro/Edward Yo	nemoto						
Analysis Requested         Field (n)         TMM-1         TMM-2         TMM-		Lab ID:	172544-001	172544-002	172544-003	172544-004	172544-005	172544-006	172544-007	172544-008							
	Analysis Requested	Field ID:	TMW-1	TMW-1	TMW-1	TMW-1	TMW-2	TMW-2	TMW-2	TMW-2							
TPH-IDE0 (Diesel) by EPA 8015 M         Date Analytical Results         ppm (mg/L + mg/Kg)           Total Petroleun Hydrocarbons         17.3         16.6         Analytical Results         ppm (mg/L + mg/Kg)           BTEX by EPA 8020         0d.22.1937         0d.22.1937         0d.22.1937         0d.23.1937         0d.23.1937         0d.23.1937           BTEX by EPA 8020         0d.21.1937         0d.23.1937         0d.23.1937 <td></td> <td>Depth:</td> <td>10-12'</td> <td>28-30'</td> <td></td> <td></td> <td>10-12'</td> <td>28-30</td> <td></td> <td></td> <td></td>		Depth:	10-12'	28-30'			10-12'	28-30									
Total Petroleum Hydrocarbons         Out 22. 1937         Out 22. 1937         Ont 23. 1937         <	TPH-DRO (Diesel) hv EPA 8015 M				Date Analy	zed - Anal	ytical Result	nqq	n (mg/L - mg	IKg)							
			Oct 22, 1997	Oct 22, 1997			Oct 22, 1997	0ct 22, 1997									
BTEX by EPA 8020         Data Analyzed         Analytical Results         Ppm (mg/L - mg/Kg)           Benzene         00123         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)         (5013)	Total Petroleum Hydrocarbons		17.3	16.6			19.8	16.9									
$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	RTEY his EDA 8030				Date Analy	zed - Anal	ytical Result	udd	u (mg/L - mg	/Kg)							
Benzene         0.052         < 0.050         < 0.050         < 0.050         < 0.050         < 0.060         < 0.001             Toluene         0.051         < 0.050			Oct 23, 1997	Oct 23, 1997	Oct 23, 1997		Oct 23, 1997	Oct 23, 1997	Oct 23, 1997								
Toluene         0.051         < 0.050         < 0.051         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050         < 0.050 <th< td=""><td>Benzene</td><td></td><td>0.052</td><td>&lt; 0.050</td><td>&lt; 0.001</td><td></td><td>&lt; 0.050</td><td>&lt; 0.050</td><td>&lt; 0.001</td><td></td><td></td></th<>	Benzene		0.052	< 0.050	< 0.001		< 0.050	< 0.050	< 0.001								
Ethylbenzene         0.050         < 0.050         < 0.050         < 0.050         < 0.001             n,p-Xylenes         0.112         < 0.001	Toluene	i	0.051	< 0.050	< 0.001		< 0.050	< 0.050	0.001								
n,p-Xylenes         0.112         < 0.100         < 0.002         < 0.002         < 0.002         < 0.002         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.001         < 0.002         < 0.002         < 0.002         < 0.002         < 0.002         < 0.002         < 0.002         < 0.002         < 0.002         < 0.002         < 0.002         < 0.002         < 0.002         < 0.002         < 0.002         < 0.002         < 0.002         < 0.002	Ethylbenzene		0:050	< 0.050	< 0.001		< 0.050	< 0.050	< 0.001								
o.Xylere         0.050         < 0.050         < 0.050         < 0.050         < 0.001             Total BTEX         0.315         < 0.300	m,p-Xylenes		0.112	< 0.100	< 0.002		< 0.100	0.118	< 0.002								
$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	o-Xylene		0:050	< 0.050	< 0.001		< 0 050	< 0.050	< 0.001								
PAHs by GC-MS by EPA 8100     Date Analyzed     Analytical Results     pm (mg/L - mg/Kg)       Acenaphthene     0ct 23, 1997     0ct 23, 1997     0ct 23, 1997       Acenaphthene     0ct 23, 1997     0ct 23, 1997     0ct 23, 1997       Acenaphthene     0ct 20, 1097     0ct 23, 1997     0ct 23, 1997       Acenaphthylene     0ct 23, 1997     0ct 23, 1997     0ct 23, 1997       Acenaphthylene     0ct 20, 002     0ct 20, 002     0ct 23, 1997       Anthracene     0ct 20, 002     0ct 20, 002     0ct 20, 002       Benzo(a)anthracene     0ct 20, 002     0ct 20, 002     0ct 20, 002       Benzo(a)pyrene     0ct 20, 002     0ct 20, 002     0ct 20, 002       This report summary, and the entire report it represents, has been made for the exclusive and comfidential use of K.E.I. Consultants, Inc.     Edward H, Konsenter       The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories.     Constants, Inc.	Total BTEX		0.315	< 0.300	< 0.006		< 0.300	0.118	0.001								
Acenaphthene       Oct 23, 1997       Oct 23, 1997       Oct 23, 1997         Acenaphthene       < 0.002	PAHs by GC-MS by FPA 8100				Date Analy	zed - Anal	ytical Result	udd	u (mg/L - mg	/Kg)							
Acenaphthene       <						Oct 23, 1997				Oct 23, 1997							
Acenaphtivlene       Anthracene       < 0.002	Acenaphthene					< 0.002				< 0.002							
Anthracene       < 0.002       < 0.002       < 0.002         Benzo(a)anthracene       < 0.002	Acenaphthylene					< 0.002				< 0.002							
Benzo(a)anthracene       < 0.002	Anthracene					< 0.002				< 0.002							
Benzo(a)pyrene       < 0.002	Benzo(a)anthracene					< 0.002				< 0.002							
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.	Benzo(a)pyrene					< 0.002				< 0.002							
XENCO Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.	This report summary, and the entire report it repr The interpretations and results expressed througi	esents, has b h this analytic	een made for the cal report represe	exclusive and cor nt the best iudom	ofidential use of ent of XENCO Lat	K.E.I. Consult poratories	iants, Inc		Edwar	d H. Yentemot	Ph.D.						
	XENCO Laboratories, however, assumes no resp	onsibility and	makes no warrar	ity to the end use	of the data hereb	y presented.			V	DA/OC Manage	, L						

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Laboratories	נס	ERTIFICAT	TE OF AN	ALYSIS S	UMMARY	1-72544				
			K.E.I. O	Consultant	s, Inc.					
Project ID: 710028			Project	t Name: TNN	1PL	Date Re	ceived in La	lb: Oct 21, 1	997 10:00 by AS	
Project Manager: Theresa Nix			ı			Date	Report Fax	ed: Oct 27, 19		
Project Location: TNMPL Reeves						×	<b>ENCO</b> conta	<b>ct</b> : Carlos Ca	sstro/Edward Yonemo	
	Lab ID:	172544-001	172544-002	172544-003	172544-004	172544-005	172544-006	172544-007	172544-008	
Analysis Requested	Field ID: Depth:	TMW-1 10-12'	TMW-1 28-30'	TMW-1	TMW-1	TMW-2 10-12'	TMW-2 28-30'	TMW-2	TMW-2	
	-			Date Analy	zed - Analy	/tical Results	udd	ı (mg/L - mg	/Kg)	
					Oct 23, 1997				Oct 23, 1997	
Benzo(b)fluoranthene					< 0.002				< 0.002	
Benzo(g,h,i)perylene					< 0.002				< 0.002	
Benzo(k)fluoranthene					< 0.002				< 0.002	
Chrysene					< 0.002				< 0.002	
Dibenzo(a,e)pyrene					< 0.002				< 0.002	
Dibenzo(a,h)anthracene					< 0.002				< 0.002	
Dibenz(a,j)acridine					< 0.002				< 0.002	
Fluoranthene					< 0.002				< 0.002	
Fluorene					< 0.002				< 0.002	
Indeno(1,2,3-cd)pyrene					< 0.002				< 0.002	
3-Methylcholanthrene					< 0.002				< 0.002	<b> </b>
Naphthalene					< 0.002				< 0.002	
Phenanthrene					< 0.002				< 0.002	
Pyrene					< 0.002				< 0.002	
Dibenz(a,h)acridine	:				< 0.002				< 0.002	
Benzo(j)fluoranthene					< 0.002				< 0.002	
7H-Dibenzo(c,g)carbazole					< 0.002				< 0.002	
										, í
This report summary, and the entire report it re The interpretations and results expressed thro XENCO Laboratories, however, assumes no re	epresents, has lugh this analyt ssponsibitity an	been made for the ical report repres d makes no warra	e exclusive and cor ent the best judgm inty to the end use	nfidential use of ent of XENCO La of the data hereb	K.E.I. Consult boratories. y presented.	ants, Inc.			d <del>HCY600</del> Emoto, Ph QATOC Manager	
			l - not-not	Dottos - Son Anto	MG				Page 2	

Houston - Dollas - San Antonia

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XGNCO Iavoratories		ERTIFICAT	re of AN	ALYSIS S	UMMARY	1-72544				
Project ID: 710028		: 	K.E.I. ( Projec	Consultant t Name: TNN	s, Inc.	Date Re	ceived in La	h · Oct 21 1	997 10:00 by A	
Project Manager: Theresa Nix					1	Date	Report Fax	ed: Oct 27, 1	667 December 199	)
FIUJECT LOCATION: INMPL REEVES						•	cenco conta	<b>ct</b> : Carlos C	astro/Edward Yo	nemoto
Analysis Reminested	Lab ID: Eiold ID:	172544-001 TMM/1-1	172544-002 TMMA 1	172544-003 TANALA	172544-004 TANA 4	172544-005 TANA 2	172544-006 TANA	172544-007	172544-008	
noisonhay and inits	Depth:	10-12	28-30'	1 - A A IAI I		10-12'	28-30'	7-MM1	Z-WM1	
				Date Analy	zed - Anal	ytical Results	mdd	i (mg/L - mg	/Kg)	
					Oct 23, 1997				Oct 23, 1997	
Dibenzo(a,h)pyrene					< 0.002				< 0.002	
Dibenzo(a,i)pyrene					< 0.002				< 0.002	
									•	
										7
This report summary, and the entire report it rep The interpretations and results expressed throu; XENCO Laboratories, however, assumes no rest	yresents, has b gh this analytiv ponsibility and	een made for the cal report represe I makes no warrar	exclusive and co int the best judgm nty to the end use	nfidential use of lent of XENCO Lat of the data hereb	K.E.I. Consult boratories. y presented.	ants, Inc		Edwar	d H: Honemoto	Ph.D.
			Houston - [	Jallas - 5an Anto	OIUG				Page	e



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### SW- 846 5030/8020 BTEX

Date Validated: Oct 24, 1997 16:00

Analyst: OR Matrix: Liquid

Date Analyzed: Oct 22, 1997 18:26 QA/QC Manager: Edward H. Yonemoto, Ph.D.

		ł	BLANK SPI	KE ANALYS	SIS		
	[A]	[B]	[C]	[D]	(E)	(F)	[G]
T	Blank	Blank Spike	Blank	Method	QC	LIMITS	
Parameter	Result	Result	Spike	Detection	Blank Spike	Recovery	Qualifier
	Í		Amount	Limit	Recovery	Range	
	ppm	ppm	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	

Brank Spike Recovery [E] = 100\*(B-A)/(C) N C. = Not calculated, data below detection limit

D. = Below detection limit.

results are based on MDL and validated for QC purposes only

Edward Yonemoto, Ph.D. AVQC Manager

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Certificate Of Quality Control for Batch: 17A29D12

### XHLA SW- 846 5030/8020

QA/QC Manager: Edward H. Yonemoto, Ph.D. Date Validated: Oct 24, 1997 16:00 Date Analyzed: Oct 22, 19

Matrix: Liquid Analyst: OR

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	-		MATR	IX SPIKE /	MATRIX SI	PIKE DUPI	LICATE AND F	RECOVERY			
4	[A]	[8]	5	[ <u>o</u> ]	(E)	Matrix	E	[5]	ΕH	Ξ	5
	Sample	Matrix Spike	Matrix Spike	Matrix	Method	Limit	ac	gc	gc	Matrix Spike	
172468- 001	Result	Result	Duplicate	Spike	Detection	Relative	Spike Relative	Matrix Spike	M.S.D.	Recovery	Qualifier
			Result	Amount	Limit	Difference	Difference	Recovery	Recovery	Range	
rarameter	mqq	mqq	mqq	mqq	mqq	%	%	%	%	%	
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	

N.D. = Below detection timit or not detected All results are based on MDL and validated for QC purposes Spike Relative Difference [F] = 200\*(B-C)/(B+C) Matrix Spike Recovery [G] = 100\*(B-A)/[D] M.S.D. Recovery [H] = 100°(C-A)/[D] M.S.D = Matrix Spike Duplicate

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Laboratories		Certificat	e Of Qual	ity Cont	rol for E	3atch :	17A34F28				
		SW	846-8270	PAHs	by GC-A	IS (610	List)	)			
Date Validated: Oct 23, 1997 1 Date Analyzed: Oct 22, 1997 1 QA/QC Manager: Edward H. Yone	4:17 7:45 smoto, Ph.D.					Anal Mat	lyst: LC rix: Liquid				
	-		BLA	VK SPIKE /	BLANK SF		ICATE AND R	ECOVERY			
	[A]	[8]		[0]	[E]	Blank	[F]	[0]	(H)	Ξ	Ξ
	Blank	Blank Spike	Blank Spike	Blank	Method	Limit	gc	ပ္စ	őC	Rlank Snite	
Parameter	Result	Result	Duplicate	Spike	Detection	Relative	Spike Relative	Blank Spike	B.S.D.	Recovery	Qualifier
			Result	Amount	Limit	Difference	Difference	Recovery	Recovery	Rande	
	mg/L	mg/L	mg/L	mg/L	mg/L	%	%	*	`	° %	
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	<del>6</del> .6	70.2	75.0	22.07	
2-Chlorophenol	< 0.0040	0.0652	0.0704	0.1000	0.0040	40.0	7.7	55 C 25	70.4	10-07 07 100	
1,4-Dichlorobenzene	< 0.0040	0.0720	0.0780	0.1000	0.0040	28.0	8.0	72.0	78.0	C21-12	
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	T
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	17.0	81.0	9-103	T
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	6.0	8.98	9.06	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	T

Spike Relative Difference [F] = 200\*(B-C)/(B+C) Blank Spike Recovery [G] = 100\*(B-A)/[D] B.S.D. = Blank Spike Duplicate B.S.D. Recovery [H] = 100\*(C-A)/[D] N.D. = Below detection limit or not detected All results are based on MDL and validated for QC purposes

Houston - Dallas - San Antonio

Edward E. Danemoto, Ph.D. - GAVOC Manager

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ate Of Quality Control for Batch: 17A02C53

## 'FTPH- BRO (Diesel) SW- 846 8015 M

QA/QC Manager: Edward H. Yonemoto, Ph.D. Date Validated: Oct 22, 1997 12:05 Date Analyzed:

Matrix: Solid Analyst: LC

	4
20:23	
1, 1997	
Oct 21	

			MATF	RIX SPIKE /	MATRIXS	PIKE DUPI	LICATE AND F	RECOVERY			
	[v]	[8]		6	[=]	Matrix	E	[0]	Ξ	Ξ	5
	Sample	Matrix Spike	Matrix Spike	Matrix	Method	Limit	oc.	ac	ő	Matrix Spike	
172473- 006	Result	Result	Duplicate	Spike	Detection	Relative	Spike Relative	Matrix Spike	M.S.D.	Recovery	Qualifier
			Result	Amount	Limit	Difference	Difference	Recovery	Recovery	Range	
rarameter	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	%	
Total Petroleum Hydrocarbons	16.01	208	214	200	10.00	30.0	2.8	96.0	0.66	65-135	

All results are based on MDL and validated for QC purposes Spike Relative Difference [F] = 200\*(B-C)/(B+C) Matrix Spike Recovery [G] = 100\*(B-A)/[D] N.D. = Below detection limit or not detected M.S.D. Recovery [H] = 100\*(C-A)/[D] M.S.D. = Matrix Spike Duplicate

Edward H. Yonemoto, Ph.D. DAVOC Manager



Certificate Of Quality Control for Batch: 17A02C53

### SW- 846 8015 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.

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

Blank Spike Recovery [E] = 100\*(B-A)/(C) N.C. = Not calculated, data below detection limit D. = Below detection limit I results are based on MDL and validated for QC purposes only

Edward H. Fonemoto, Ph.D. AVQC Manager

<b>MENGO</b>	Laboratories

# ANALYTICAL CHAIN OF CUSTODY REPORT

CHRONOLOGY OF SAMPLES

## K.E.I. Consultants, Inc.

Project Name: TNMPL

Project ID: 710028 Project Manager: Theresa Nix Project Location: TNMPL Reeves

XENCO COC#: 1-72544

Date Received in Lab: Oct 21, 1997 10:00 by AS xeNco contact : Carlos Castro/Edward Yonemoto

							Date	e and Time	
Field ID	Lab. ID	Method	Method	Units	Turn	Sample	Addition		
	-	Name	٩		Around	Collected	Requested	Extraction	Analysis
TMW-1 (10-12')	172544-001	втех	SW-846	mqq	Standard	Oct 17, 1997 12:55		Oct 23, 1997 by OR	Oct 23, 1997 18:00 by OR
		TPH8015M-D	SW-846 8015 M	mg/kg	Standard	Oct 17, 1997 12:55		Oct 21, 1997 by CY	Oct 22, 1997 00:58 by LC
TMW-1 (28-30')	172544-002	BTEX	SW-846	mqq	Standard	Oct 17, 1997 13:11		Oct 23, 1997 by OR	Oct 23, 1997 18:43 by OR
		TPH8015M-D	SW-846 8015 M	mg/kg	Standard	Oct 17, 1997 13:11		Oct 21, 1997 by CY	Oct 22, 1997 01:27 by LC
TMW-1	172544-003	втех	SW-846	undd	Standard	Oct 17, 1997 13:40		Oct 22, 1997 by OR	Oct 23, 1997 03:00 by OR
	172544-004	РАН	SW-846 8100	mg/L	Standard	Oct 17, 1997 13:40		Oct 22, 1997 by RK	Oct 23, 1997 01:28 by LC
TMW-2 (10-12')	172544-005	втех	SW-846	mqq	Standard	Oct 17, 1997 14:23		Oct 23, 1997 by OR	Oct 23, 1997 19:01 by OR
		TPH8015M-D	SW-846 8015 M	mg/kg	Standard	Oct 17, 1997 14:23		Oct 21, 1997 by CY	Oct 22, 1997 01:56 by LC
TMW-2 (28-30')	172544-006	втех	SW-846	mqq	Standard	Oct 17, 1997 14:48		Oct 23, 1997 by OR	Oct 23, 1997 19:19 by OR
		TPH8015M-D	SW-846 8015 M	mg/kg	Standard	Oct 17, 1997 14:48		Oct 21, 1997 by CY	Oct 22, 1997 02:25 by LC
TMW-2	172544-007	втех	SW-846	шdd	Standard	Oct 17, 1997 15:20		Oct 22, 1997 by OR	Oct 23, 1997 03:18 by OR
	172544-008	PAH	SW-846 8100	mg/L	Standard	Oct 17, 1997 15:20		Oct 22, 1997 by RK	Oct 23, 1997 02:15 by LC

**~**--

THIS IMACTORE     CHAIN OF CUS       Tell Machingin She Like     Fac (73) 589-605     AND ANALYSIS F       Consultands     Prome (210) LeSO - 3767     Mo       Reaching and Decision     Prome (210) LeSO - 3767     Mo       Reaching and Decision     Prome (210) LeSO - 3767     Mo       Reaching and Decision     Prome (210) LeSO - 3767     Mo       Place     Prome (210) LeSO - 3767     Mo       Reaching and Decision     Prome (210) LeSO - 3767     Mo       Place     Place     Place     Place     Place	TODY RECORD Fage 7 of 7 LEQUEST FORM Lab Batch # 172.544	oolers this shipment Contractor COC #		*                     *   *	2 7 7 8 7 9 7 7 1 Turn-around		2017 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		# (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	HI S S S S S S S S S S S S S S S S S S S		2		4	2	•		0	0	<b>Q</b>	ma Remuta Sunolo w/Hulics ( TP14 (2015)	Weese Nr. S Voes	LUCS ,
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	11381 Meadowgen Suite L. Houston, Texas (713) 589-0692 Fax (713) 58	Consultants Prove	12 March Suils 100 Sen An	Project Dis	Project Man	PL Recyes Ther	inter town	B CHARACTERIZATION	E S X C G Container	Time P M Sto Type to P D	12 20 10- 12 H	7 1311 23- 1 82 V		1340 11/1	7 1423 10:12 / 812	1443 23- 1 Buz 1	7 1522 1 V V	1520 11/1			Sgraund DATE TIME Ray	1020-97/630	Received