

1R - 124

REPORTS

DATE:

8-27-1997

ANALYTICAL REPORT 1-71968

for

SEP - 4 1997

K.E.I. Consultants, Inc.

Project Manager: Mike Hawthorne

Project Name: TNMPL Monument

Project Id: 610057

August 27, 1997



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August 27, 1997

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

Reference: **XENCO Report No.: 1-71968**
Project Name: TNMPL Monument
Project ID: 610057
Project Address: Site 18

Dear Mike Hawthorne:

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 1-71968. 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, and completeness.

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. 1-71968 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 Laboratories is accredited by the American Association for Laboratory Accreditation (A2LA) for technical competence in the field of Environmental Testing (Certificate No. 0343-01). In accordance with A2LA's guidelines, XENCO operates a Quality System that meets ISO/IEC Guide 25 requirements and 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 Yenchimoto, Ph.D.
QA/QC Manager

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

**CERTIFICATE OF ANALYSIS SUMMARY 1-71968**

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

Project ID: 610057
Project Manager: Mike Hawthorne
Project Location: Site 18

Date Received in Lab: Aug 25, 1997 10:15 by LY

Date Report Faxed: Aug 27, 1997

XENCO contact: Carlos Castro/Edward Yonemoto

Analysis Requested	<i>Lab ID:</i>	171968-001					
	<i>Field ID:</i>	MW-2					
	<i>Depth:</i>						
BTEX Analyzed by EPA 8020		Date Analyzed - Analytical Results ppm (mg/L - mg/Kg)					
		Aug 26, 1997					
Benzene		< 0.001					
Toluene		< 0.001					
Ethylbenzene		< 0.001					
m,p-Xylenes		< 0.002					
o-Xylene		< 0.001					
Total BTEX		< 0.006					

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

The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories. Xenco Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.


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



Certificate Of Quality Control for Batch : 17A25C85

SW- 346 5030/3020 BTEx

Date Validated: Aug 26, 1997 11:00
Date Analyzed: Aug 25, 1997 18:17
QA/QC Manager: Edward H. Yonemoto, Ph.D.

Analyst: HL
Matrix: Liquid

BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY												
Parameter	[A]	[B]	[C]	[D]	[E]	Blank Limit Relative Difference %	[F]	[G]	[H]	[I]	[J]	
	Blank Result ppm	Blank Spike Result ppm	Blank Spike Duplicate Result ppm	Blank Spike Amount ppm	Method Detection Limit ppm		QC	QC	Blank Spike Recovery %	Blank Spike Recovery Range %	Qualifier	
							Spike Relative Difference %	Blank Spike Recovery %				B.S.D. Recovery %
Benzene	< 0.0010	0.1000	0.1030	0.1000	0.0010	25.0	3.0	100.0	103.0	65-135		
Toluene	< 0.0010	0.1000	0.1010	0.1000	0.0010	25.0	1.0	100.0	101.0	65-135		
Ethylbenzene	< 0.0010	0.1030	0.1070	0.1000	0.0010	25.0	3.8	102.9	106.9	65-135		
m,p-Xylenes	< 0.0020	0.2100	0.2160	0.2000	0.0020	25.0	2.8	104.9	107.9	65-135		
o-Xylene	< 0.0010	0.1050	0.1050	0.1000	0.0010	25.0	0.0	104.9	104.9	65-135		

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

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



ANALYTICAL CHAIN OF CUSTODY REPORT CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

XENCO COC#: 1-71968

Project Name: TNMPL Monument

Project ID: 610057

Project Manager: Mike Hawthorne

Date Received in Lab: Aug 25, 1997 10:15 by LY

Project Location: Site 18

XENCO contact : Carlos Castro/Edward Yonemoto

Date and Time						
Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Sample Collected
1 MW-2	171968-001	BTEX	SW-846	ppm	Standard	Aug 15, 1997 10:40
Addition Requested						Aug 26, 1997 by HL
Extraction						Aug 26, 1997 01:51 by HL
Analysis						

[illegible]

**CERTIFICATE OF ANALYSIS SUMMARY 1-72226****K.E.I. Consultants, Inc.****Project Name: TNMPL****Project ID: 610057-6-18-0****Project Manager: Theresa Nix****Project Location: Monument, NM****Date Received in Lab: Sep 23, 1997 10:30 by AS****Date Report Faxed: Oct 20, 1997****XENCO contact: Carlos Castro/Edward Yonemoto**

Analysis Requested	Lab ID:	172226-001	172226-002				
	Field ID:	MW18-6	MW18-5				
	Depth:						
Metals (ICP) Analyzed by EPA 6010	Date Analyzed		Analytical Results		ppm (mg/L - mg/Kg)		
	Sep 30, 1997	Sep 30, 1997					
Aluminum	15.0	2.5					
Barium	2.17	0.43					
Beryllium	< 0.020	< 0.020					
Cadmium	< 0.040	< 0.040					
Calcium	3010	1900					
Chromium	< 0.050	< 0.050					
Cobalt	< 0.050	< 0.050					
Iron	11.1	2.01					
Magnesium	816	813					
Manganese	0.40	0.42					
Molybdenum	< 0.20	< 0.20					
Potassium	57.6	54.8					
Silver	< 0.080	< 0.080					
Sodium	2020	3090					
Tin	4.22	0.63					
Vanadium	0.20	< 0.050					
Zinc	0.19	0.10					
Nickel	< 0.20	< 0.20					
Copper	< 0.050	< 0.050					
Boron	0.19	0.23					
Silicon	69.4	55.9					
Strontium	33.6	32.8					
BTEX Analyzed by EPA 8020	Date Analyzed		Analytical Results		ppm (mg/L - mg/Kg)		
	Sep 25, 1997	Sep 25, 1997					

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The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories. Xenco Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.


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

**CERTIFICATE OF ANALYSIS SUMMARY 1-72226****K.E.I. Consultants, Inc.****Project Name: TNMPL****Project ID: 610057-6-18-0****Project Manager: Theresa Nix****Project Location: Monument, NM****Date Received in Lab: Sep 23, 1997 10:30 by AS****Date Report Faxed: Oct 20, 1997****XENCO contact: Carlos Castro/Edward Yonemoto**

Analysis Requested	Lab ID:	172226-001	172226-002				
	Field ID:	MW18-6	MW18-5				
	Depth:						
Benzene		< 0.001	< 0.001				
Toluene		< 0.001	< 0.001				
Ethylbenzene		< 0.001	< 0.001				
m,p-Xylenes		< 0.002	< 0.002				
o-Xylene		< 0.001	< 0.001				
Total BTEX		< 0.006	< 0.006				
PAH Analyzed by EPA 8100	Date Analyzed - Analytical Results			ppm (mg/L - mg/Kg)			
		Sep 26, 1997	Sep 26, 1997				
Acenaphthene		< 0.002	< 0.002				
Acenaphthylene		< 0.002	< 0.002				
Anthracene		< 0.002	< 0.002				
Benzo(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				
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				
Naphthalene		< 0.002	< 0.002				
Phenanthrene		< 0.002	< 0.002				
Pyrene		< 0.002	< 0.002				

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

**CERTIFICATE OF ANALYSIS SUMMARY 1-72226****K.E.I. Consultants, Inc.***Project Name: TNMPL*

Project ID: 610057-6-18-0

Project Manager: Theresa Nix

Project Location: Monument, NM

Date Received in Lab: Sep 23, 1997 10:30 by AS

Date Report Faxed: Oct 20, 1997

XENCO contact: Carlos Castro/Edward Yonemoto

Analysis Requested	Lab ID:	172226-001	172226-002				
	Field ID:	MW18-6	MW18-5				
	Depth:						
Dibenz(a,h)acridine		< 0.002	< 0.002				
Benzo(j)fluoranthene		< 0.002	< 0.002				
7H-Dibenzo(c,g)carbazole		< 0.002	< 0.002				
Dibenzo(a,h)pyrene		< 0.002	< 0.002				
Dibenzo(a,i)pyrene		< 0.002	< 0.002				
Bicarbonate Analyzed by SM 4500CO2D	Date Analyzed - Analytical Results			ppm (mg/L - mg/Kg)			
	Sep 24, 1997	Sep 24, 1997					
Bicarbonate		182	249				
Carbonate Analyzed by SM4500CO2D	Date Analyzed - Analytical Results			ppm (mg/L - mg/Kg)			
	Sep 24, 1997	Sep 24, 1997					
Carbonate		< 1.00	< 1.00				
TDS Analyzed by EPA 160.1	Date Analyzed - Analytical Results			ppm (mg/L - mg/Kg)			
	Sep 24, 1997	Sep 24, 1997					
Total Dissolved Solids		22000	23000				
Anions Analyzed by EPA 300.0	Date Analyzed - Analytical Results			ppm (mg/L - mg/Kg)			
	Sep 23, 1997	Sep 23, 1997					
Sulfate		363	244				
Chloride		8600	5100				

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



Certificate Of Quality Control for Batch : 17A18E55

EPA 6010 Metals by ICP

Date Validated: Oct 1, 1997 09:00

Date Analyzed: Sep 30, 1997 15:34

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

Analyst: SA

Matrix: Liquid

Q.C. Sample ID 172226- 001		MATRIX DUPLICATE ANALYSIS					MATRIX SPIKE ANALYSIS				
		[A] Sample Result mg/L	[B] Duplicate Result mg/L	[C] Method Detection Limit mg/L	[D]		[F] Matrix Spike Result mg/L	[G] Matrix Spike Amount mg/L	[H] QC Matrix Spike Recovery %	[I]	
					QC	Relative Difference %				LIMITS	Recovery Range %
Parameter											
Aluminum		15.04	12.06	0.05	22.0	25.0	12.68	2.0	118.0	70-125	
Barium		2.173	1.135	0.006	62.8	25.0	2.416	1.00	24.3	70-125	A,C
Beryllium		< 0.0200	< 0.0200	0.0200	N.C.	25.0	0.3790	0.400	94.8	70-125	
Cadmium		< 0.0400	< 0.0400	0.0400	N.C.	25.0	0.3430	0.400	85.8	70-125	
Calcium		3010	2240	0.05	29.3	25.0	1860	5.0	23000	70-125	B,E,C
Chromium		< 0.0500	< 0.0500	0.0500	N.C.	25.0	0.8570	1.000	85.7	70-125	
Cobalt		0.0120	< 0.0100	0.0100	N.C.	25.0	0.8310	1.000	81.9	70-125	
Copper		< 0.0300	< 0.0300	0.0300	N.C.	25.0	0.9080	1.000	90.8	70-125	
Iron		11.14	9.42	0.03	16.7	25.0	9.98	2.0	58.0	70-125	B,D
Magnesium		816	643	0.05	23.7	25.0	346	5.0	9400	70-125	B,D
Manganese		0.404	0.326	0.025	21.4	25.0	1.715	2.00	65.6	70-125	D
Molybdenum		< 0.100	< 0.100	0.100	N.C.	25.0	0.744	1.00	74.4	70-125	
Nickel		< 0.100	< 0.100	0.100	N.C.	25.0	0.843	1.00	84.3	70-125	

(A) Presence of a non-homogeneous sample affects duplicate/spike recovery.

(B) High analyte concentration affects spike recovery.

(C) Post-digestion spike within acceptance limits.

(D) Blank spike within acceptance limits.

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

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

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

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



Certificate Of Quality Control for Batch : 17A18E55

EPA 6010 Metals by ICP

Date Validated: Oct 1, 1997 09:00

Date Analyzed: Sep 30, 1997 15:34

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

Analyst: SA

Matrix: Liquid

Q.C. Sample ID 172226- 001		MATRIX DUPLICATE ANALYSIS						MATRIX SPIKE ANALYSIS					
		[A] Sample Result mg/L	[B] Duplicate Result mg/L	[C] Method Detection Limit mg/L	[D]		[E] LIMITS Relative Difference %	[F] Matrix Spike Result mg/L	[G] Matrix Spike Amount mg/L	[H]		[I] LIMITS Recovery Range %	[J] Qualifier
					QC	Relative Difference %				QC	Matrix Spike Recovery %		
Parameter													
Potassium		57.65	43.66	0.10	27.6	25.0	44.05	4.0	340.0	70-125	B,E,C		
Silver		< 0.0400	< 0.0400	0.0400	N/C	25.0	0.6750	0.800	84.4	70-125			
Sodium		2020	1610	0.1000	22.6	25.0	1520	4.000	12500	70-125	B,D		
Strontium		33.58	26.66	0.10	23.0	25.0	17.52	5.0	321.2	70-125	B,D		
Vanadium		0.199	0.104	0.012	62.7	25.0	1.022	1.00	82.3	70-125	E		
Zinc		0.191	0.099	0.030	63.4	25.0	1.033	1.00	84.2	70-125	E		

(E) Variability in duplicate measurement attributed to sample non-homogeneity.

(A) Presence of a non-homogeneous sample affects duplicate/spike recovery.

(B) High analyte concentration affects spike recovery.

(C) Post-digestion spike within acceptance limits.

(D) Blank spike within acceptance limits.

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

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

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

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



Certificate Of Quality Control for Batch : 17A04D22

SW- 846 5030/8020 BTEX

Date Validated: Sep 26, 1997 10:25

Analyst: OR

Date Analyzed: Sep 25, 1997 10:42

Matrix: Liquid

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

Parameter	BLANK SPIKE ANALYSIS						
	[A]	[B]	[C]	[D]	[E]	[F]	[G]
	Blank	Blank Spike	Blank	Method	QC	LIMITS	Qualifier
	Result	Result	Spike	Detection	Blank Spike	Recovery	
	ppm	ppm	Amount	Limit	Recovery	Range	
			ppm	ppm	%	%	
Benzene	< 0.0010	0.1080	0.1000	0.0010	108.0	65-135	
Toluene	< 0.0010	0.0959	0.1000	0.0010	95.9	65-135	
Ethylbenzene	< 0.0010	0.1070	0.1000	0.0010	107.0	65-135	
m,p-Xylenes	< 0.0020	0.2180	0.2000	0.0020	109.0	65-135	
o-Xylene	< 0.0010	0.1040	0.1000	0.0010	104.0	65-135	

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

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

N.D. = Below detection limit

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


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



Certificate Of Quality Control for Batch : 17A04D22

SW- 346 5030/3020 BTEx

Date Validated: Sep 26, 1997 10:25

Date Analyzed: Sep 25, 1997 19:10

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

Analyst: OR

Matrix: Liquid

MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY										
Q.C. Sample ID 172227- 002	Parameter	[A] Sample Result ppm	[B] Matrix Spike Result ppm	[C] Matrix Spike Duplicate Result ppm	[D] Matrix Spike Amount ppm	[E] Method Detection Limit ppm	Matrix Limit Relative Difference %	[F] QC		[J] Qualifier
								Spike Relative Difference %	[G] QC Matrix Spike Recovery %	
	Benzene	< 0.0010	0.1000	0.1120	0.1000	0.0010	25.0	11.3	100.0	65-135
	Toluene	< 0.0010	0.0894	0.0997	0.1000	0.0010	25.0	10.9	89.4	65-135
	Ethylbenzene	< 0.0010	0.0988	0.1110	0.1000	0.0010	25.0	11.6	98.8	65-135
	m,p-Xylenes	< 0.0020	0.2020	0.2260	0.2000	0.0020	25.0	11.2	101.0	65-135
	o-Xylene	< 0.0010	0.0964	0.1090	0.1000	0.0010	25.0	12.3	96.4	65-135

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

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

M.S.D. = Matrix Spike Duplicate

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

N.D. = Below detection limit or not detected

All results are based on MDL and validated for QC purposes


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



Certificate Of Quality Control for Batch : 17A34E64

SW846-8270 Semivolatiles (SVOCs TCL)

Date Validated: Sep 26, 1997 11:49

Date Analyzed: Sep 25, 1997 20:55

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

Analyst: LC

Matrix: Liquid

BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY

Parameter	[A]	[B]	[C]	[D]	[E]	Blank Limit Relative Difference %	[F]	[G]	[H]	[I]	[J]
	Blank Result mg/L	Blank Spike Result mg/L	Blank Spike Duplicate Result mg/L	Blank Spike Amount mg/L	Method Detection Limit mg/L		QC	QC	QC	Blank Spike Recovery Range %	Qualifier
							Spike Relative Difference %	Blank Spike Recovery %	B.S.D. Recovery %		
Acenaphthene	< 0.0050	0.0912	0.0940	0.1000	0.0050	3.0	91.2	94.0	94.0	46-118	
4-Chloro-3-Methylphenol	< 0.0076	0.0864	0.0810	0.1000	0.0076	42.0	6.5	86.4	81.0	23-97	
2-Chlorophenol	< 0.0100	0.0836	0.0822	0.1000	0.0100	40.0	1.7	83.6	82.2	27-123	
1,4-Dichlorobenzene	< 0.0084	0.0896	0.0968	0.1000	0.0084	28.0	7.7	89.6	96.8	36-97	
2,4-Dinitrotoluene	< 0.0100	0.0934	0.0882	0.1000	0.0100	38.0	5.7	93.4	88.2	24-96	
N-Nitroso-di-n-propylamine	< 0.0080	0.1008	0.1074	0.1000	0.0080	38.0	6.3	100.8	107.4	41-116	
4-Nitrophenol	< 0.0080	0.0306	0.0204	0.1000	0.0080	50.0	40.0	30.6	20.4	10-80	
Pentachlorophenol	< 0.0172	0.0896	0.0818	0.1000	0.0172	50.0	9.1	89.6	81.8	9-103	
Phenol	< 0.0074	0.0522	0.0434	0.1000	0.0074	42.0	18.4	52.2	43.4	12-89	
Pyrene	< 0.0040	0.0716	0.0664	0.1000	0.0040	31.0	7.5	71.6	66.4	26-127	
1,2,4-Trichlorobenzene	< 0.0108	0.0888	0.0956	0.1000	0.0108	28.0	7.4	88.8	95.6	39-98	

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

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

B.S.D. = Blank Spike Duplicate

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

N.D. = Below detection limit or not detected

All results are based on MDL and validated for QC purposes

Horizon - Dallas - San Antonio

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



Certificate Of Quality Control for Batch: 17A20A65

SM 4500C02D Bicarbonate

Date Validated: Sep 26, 1997 08:55

Date Analyzed: Sep 24, 1997 10:00

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

Analyst: IF

Matrix: Liquid

BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY														
Parameter	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Duplicate Result mg/L	[D] Blank Spike Amount mg/L	[E] Method Detection Limit mg/L	Blank		[F] QC	[G] QC	[H] QC	[I] Blank Spike Recovery Range %	[J] Qualifier		
						Relative Difference %	Spike Relative Difference %							
													Blank Limit	Blank Spike Recovery
Bicarbonate	< 0.50	21.00	21.00	25.00	0.50	25.0	0.0	84.0	84.0	70-125				

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

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

**Certificate Of Quality Control for Batch : 17A20A65****SM 4500C02D Bicarbonate**

Date Validated: Sep 26, 1997 08:55

Analyst: IF

Date Analyzed: Sep 24, 1997 11:00

Matrix: Liquid

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

MATRIX DUPLICATE ANALYSIS						
Q.C. Sample ID 172226- 001	[A] Sample Result	[B] Duplicate Result	[C] Method Detection Limit	[D] QC Relative Difference %	[E] LIMITS Relative Difference %	[F] Qualifier
	Parameter	mg/L	mg/L	mg/L	mg/L	
	Bicarbonate	182	184	0.50	1.1	25.0

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

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

N.D. = Below detection limit

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


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



Certificate Of Quality Control for Batch : 17A20A78

SM4500CO2D Carbonate

Date Validated: Sep 26, 1997 08:55

Analyst: IF

Date Analyzed: Sep 24, 1997 10:50

Matrix: Liquid

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

MATRIX DUPLICATE ANALYSIS						
Q.C. Sample ID 172226- 001	[A]	[B]	[C]	[D]	[E]	[F] Qualifier
	Sample Result	Duplicate Result	Method Detection Limit	QC	LIMITS	
	ppm	ppm	ppm	Relative Difference %	Relative Difference %	
Parameter						
Carbonate	< 1.000	< 1.000	1.000	N.C	25.0	

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

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

N.D. = Below detection limit

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


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

**Certificate Of Quality Control for Batch - 17A19D36****EPA 160.1 Total Dissolved Solids**

Date Validated: Sep 25, 1997 14:30

Analyst: IF

Date Analyzed: Sep 24, 1997 14:10

Matrix: Liquid

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

MATRIX DUPLICATE ANALYSIS						
Q.C. Sample ID 172211- 001	[A] Sample Result	[B] Duplicate Result	[C] Method Detection Limit	[D] QC Relative Difference %	[E] LIMITS Relative Difference %	[F] Qualifier
	mg/L	mg/L	mg/L			
Parameter						
Total Dissolved Solids	81200	77000	4.00	5.3	25.0	

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

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

N.D. = Below detection limit

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


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



Certificate Of Quality Control for Batch 17A10A82

EPA 300.0 Anions by Ion Chromatography

Date Validated: Sep 29, 1997 17:45

Analyst: OR

Date Analyzed: Sep 23, 1997 17:46

Matrix: Liquid

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

MATRIX DUPLICATE ANALYSIS						
Q.C. Sample ID 172227- 002	[A] Sample Result	[B] Duplicate Result	[C] Method Detection Limit	[D] QC Relative Difference %	[E] LIMITS Relative Difference %	[F] Qualifier
	mg/L	mg/L	mg/L			
Parameter						
Chloride	4470	4500	0.050	0.7	20.0	
Sulfate	676	679	0.10	0.4	20.0	

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

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

N.D. = Below detection limit

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


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



Certificate Of Quality Control for Batch: 17A10A82

EPA 300.0 Anions by Ion Chromatography

Date Validated: Sep 29, 1997 17:45

Date Analyzed: Sep 23, 1997 15:24

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

Analyst: OR

Matrix: Liquid

Parameter	BLANK SPIKE / BLANK SPIKE DUPLICATE AND RECOVERY											
	[A] Blank Result mg/L	[B] Blank Spike Result mg/L	[C] Blank Spike Duplicate Result mg/L	[D] Blank Spike Amount mg/L	[E] Method Detection Limit mg/L	Blank Limit Relative Difference %	[F]	[G]	[H]	[I]	[J] Qualifier	
							QC	QC	QC	Blank Spike Recovery Range %		
							Spike Relative Difference %	Blank Spike Recovery %	B.S.D. Recovery %			
Chloride	< 0.050	4.356	4.693	5.000	0.050	20.0	7.4	87.1	93.9	70-125		
Sulfate	< 0.10	4.41	4.51	5.00	0.10	20.0	2.2	88.2	90.2	70-125		

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

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

B.S.D. = Blank Spike Duplicate

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

N.D. = Below detection limit or not detected

All results are based on MDL and validated for QC purposes


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



ANALYTICAL CHAIN CUSTODY REPORT CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

Project ID: 610057-6-18-0
Project Manager: Theresa Nix
Project Location: Monument, NM

Project Name: TNMPL

XENCO COC#: 1-72226

Date Received in Lab: Sep 23, 1997 10:30 by AS

XENCO contact : Carlos Castro/Edward Yonemoto

Date and Time									
Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Sample Collected	Addition Requested	Extraction	Analysis
1 MW18-6	172226-001	BTEX	SW-846	ppm	Standard	Sep 19, 1997 12:22		Sep 25, 1997 by OR	Sep 25, 1997 11:24 by OR
2		Metals (ICP)	EPA 6010	mg/L	Standard	Sep 19, 1997 12:22		Sep 26, 1997 by EZ	Sep 30, 1997 15:07 by SA
3		Anions	EPA 300.0	mg/L	Standard	Sep 19, 1997 12:22		Sep 23, 1997 by OR	Sep 23, 1997 16:45 by OR
4		Bicarbonate	SM 4500CO2D	mg/L	Standard	Sep 19, 1997 12:22		Sep 24, 1997 by IF	Sep 24, 1997 10:50 by IF
5		Carbonate	SM4500CO2D	ppm	Standard	Sep 19, 1997 12:22		Sep 24, 1997 by IF	Sep 24, 1997 10:50 by IF
6		PAH	SW-846 8100	mg/L	Standard	Sep 19, 1997 12:22		Sep 25, 1997 by CY	Sep 26, 1997 09:31 by LC
7		TDS	EPA 160.1	mg/L	Standard	Sep 19, 1997 12:22		Sep 23, 1997 by IF	Sep 24, 1997 13:45 by IF
8 MW18-5	172226-002	BTEX	SW-846	ppm	Standard	Sep 19, 1997 13:21		Sep 25, 1997 by OR	Sep 25, 1997 11:47 by OR
9		Metals (ICP)	EPA 6010	mg/L	Standard	Sep 19, 1997 13:21		Sep 26, 1997 by EZ	Sep 30, 1997 15:50 by SA
10		Anions	EPA 300.0	mg/L	Standard	Sep 19, 1997 13:21		Sep 23, 1997 by OR	Sep 23, 1997 17:14 by OR
11		Bicarbonate	SM 4500CO2D	mg/L	Standard	Sep 19, 1997 13:21		Sep 24, 1997 by IF	Sep 24, 1997 11:10 by IF
12		Carbonate	SM4500CO2D	ppm	Standard	Sep 19, 1997 13:21		Sep 24, 1997 by IF	Sep 24, 1997 11:10 by IF
13		PAH	SW-846 8100	mg/L	Standard	Sep 19, 1997 13:21		Sep 25, 1997 by CY	Sep 26, 1997 10:18 by LC
14		TDS	EPA 160.1	mg/L	Standard	Sep 19, 1997 13:21		Sep 23, 1997 by IF	Sep 24, 1997 13:50 by IF

Lab. Batch # 172226-14

[illegible]

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

*** Pre-scheduling is recommended**

Precision Analytical Services



ROAD

TNMPL Underground Pipeline

SID RICA Pipeline

EL=3527.21
MW18-4

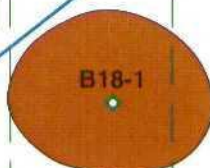
B18-C

B18-B

○ MW18-6
EL=3527.18
B=ND
BTEX=ND

○ MW-18-3
(B18-4)
EL=3527.13

B18-2
EL=3527.01
B=0.002
BTEX=0.006
MW18-2



B18-1

B18-3

○ MW18-1
EL=3527.02

B18-A

○ MW18-5
EL=3526.84
B=ND
BTEX=ND

LEGEND

- ◆ Soil Boring Locations
- Monitoring Well Locations
- Surface Stain
- EL = Ground water elevation (feet) calculated from measurements obtained on November 2, 1997.
- B = Benzene Concentration (mg/l)
- BTEX = Total Benzene, Toluene, Ethylbenzene, and Xylenes Concentration (mg/l)
- Contour Interval = 0.10 feet

NOTES:

1. Ground water elevation in wells containing PSH was corrected using a factor of 0.882.
2. Ground water samples were obtained on November 2, 1997.
3. Ground water samples were not collected from MW18-1 and MW18-3 due to the presence of PSH.

506-RM G:\TNMPL\610057\SITE-8\61GW N87

kei

GROUND WATER CONTOURS / CONCENTRATION MAP - NOVEMBER 1997

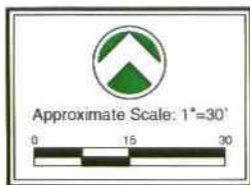
TEXAS - NEW MEXICO PIPE LINE CO.

MONUMENT SITE NO. 18

LEA COUNTY, NEW MEXICO

610057

FIG 1



MW18-6
PSH=ND

MW-18-3
(B18-4)
PSH=2.73

ND
MW18-4
PSH=0.01

B18-C

B18-B

B18-2

MW18-2
PSH=ND

B18-1

B18-3

MW18-1
PSH=3.24

B18-A

MW18-5

LEGEND

- ◆ Soil boring locations drilled on September 11 and 12, 1997.
- Monitoring well locations drilled on September 11 and 12, 1997.
- ◆ Soil boring locations drilled on March 9 and 14, 1997.
- Monitoring well locations drilled on April 7 and 8, 1997.
- Surface Stain
- PSH = Phase-separate hydrocarbon thickness (feet) measured on November 2, 1997.
- Contour Interval = 1.0 foot

PSH THICKNESS MAP - NOVEMBER 1997

TEXAS - NEW MEXICO PIPE LINE CO.

MONUMENT SITE NO. 18

LEA COUNTY, NEW MEXICO

610057

FIG 2

kei

**CERTIFICATE OF ANALYSIS SUMMARY 1-72738**

K.E.I. Consultants, Inc.
Project Name: TNMPL-Site #18

Project ID: 610057
Project Manager: Theresa Nix
Project Location: Monument, NM

Date Received in Lab: Nov 4, 1997 10:30 by CC

Date Report Faxed: Nov 5, 1997

XENCO contact: Carlos Castro/Edward Yonemoto

Analysis Requested	Lab ID:	172738-001	172738-002	172738-003			
	Field ID:	MW-2	MW-5	MW-6			
BTEX Analyzed by EPA 8020	Date Analyzed - Analytical Results			ppm (mg/L - mg/Kg)			
	Nov 4, 1997	Nov 4, 1997	Nov 4, 1997				
Benzene	0.002	< 0.001	< 0.001				
Toluene	< 0.001	< 0.001	< 0.001				
Ethylbenzene	0.004	< 0.001	< 0.001				
m,p-Xylenes	< 0.002	< 0.002	< 0.002				
o-Xylene	< 0.001	< 0.001	< 0.001				
Total BTEX	0.006	< 0.006	< 0.006				

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

The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories. Xenco Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.


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

SW- 846 5030/8020 BTEX
Date Validated: Nov 5, 1997 09:00

Analyst: HL

Date Analyzed: Nov 4, 1997 12:28

Matrix: Liquid

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

BLANK SPIKE ANALYSIS

Parameter	[A]	[B]	[C]	[D]	[E]	[F]	[G]
	Blank Result	Blank Spike Result	Blank Spike Amount	Method Detection Limit	QC	LIMITS	
	ppm	ppm	ppm	ppm	Blank Spike Recovery %	Recovery Range %	
Benzene	< 0.0010	0.0984	0.1000	0.0010	98.4	65-135	
Toluene	< 0.0010	0.1000	0.1000	0.0010	100.0	65-135	
Ethylbenzene	< 0.0010	0.1020	0.1000	0.0010	102.0	65-135	
m,p-Xylenes	< 0.0020	0.2020	0.2000	0.0020	101.0	65-135	
o-Xylene	< 0.0010	0.1040	0.1000	0.0010	104.0	65-135	

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

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

N.D. = Below detection limit

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


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

Certificate Of Quality Control for Batch : 17A25D51

SW- 846 5030/3020 BTX

Date Validated: Nov 5, 1997 09:00

Date Analyzed: Nov 4, 1997 13:07

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

Analyst: HL

Matrix: Liquid

MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY														
Q.C. Sample ID 172734- 001	Parameter	[A]	[B]	[C]	[D]	[E]	Matrix Limit	[F]	[G]	[H]	[I]	[J]		
		Sample Result ppm	Matrix Spike Result ppm	Matrix Spike Duplicate Result ppm	Matrix Spike Amount ppm	Method Detection Limit ppm	Relative Difference %	QC	Matrix Spike Recovery %	QC	Matrix Spike Recovery Range %	Qualifier		
	Benzene	< 0.0010	0.0846	0.0855	0.1000	0.0010	25.0	1.1	84.6	85.5	65-135			
	Toluene	< 0.0010	0.0860	0.0857	0.1000	0.0010	25.0	0.3	86.0	85.7	65-135			
	Ethylbenzene	< 0.0010	0.0871	0.0877	0.1000	0.0010	25.0	0.7	87.1	87.7	65-135			
	m,p-Xylenes	< 0.0020	0.1720	0.1730	0.2000	0.0020	25.0	0.6	86.0	86.5	65-135			
	o-Xylene	< 0.0010	0.0893	0.0898	0.1000	0.0010	25.0	0.6	89.3	89.8	65-135			

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

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

M.S.D. = Matrix Spike Duplicate

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

N.D. = Below detection limit or not detected

All results are based on MDL and validated for QC purposes


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



Project Location: Monument, NM

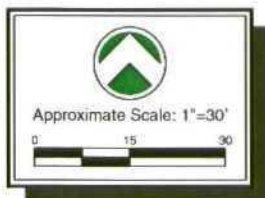
Project Name: TNMPL-Site #18

Date Received in Lab: Nov 4, 1997 10:30 by CC

xenco contact : Carlos Castro/Edward Yonemoto

Date and Time									
Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Sample Collected	Addition Requested	Extraction	Analysis
1 MW-2	172738-001	BTEX	SW-846	ppm	Standard	Nov 2, 1997 09:33		Nov 4, 1997 by HL	Nov 4, 1997 16:57 by HL
2 MW-5	172738-002	BTEX	SW-846	ppm	Standard	Nov 2, 1997 09:48		Nov 4, 1997 by HL	Nov 4, 1997 17:16 by HL
3 MW-6	172738-003	BTEX	SW-846	ppm	Standard	Nov 2, 1997 09:15		Nov 4, 1997 by HL	Nov 4, 1997 17:35 by HL

[illegible]



LEGEND

- Soil boring locations drilled on September 11 and 12, 1997.
- Monitoring well locations drilled on September 11 and 12, 1997.
- Soil boring locations drilled on March 9 and 14, 1997.
- Monitoring well locations drilled on April 7 and 8, 1997.
- Approximate Location of Surface Stain

EL = Ground water elevation (feet) calculated from measurements obtained on February 19 & 21, 1998.

B = Benzene Concentration (mg/l)

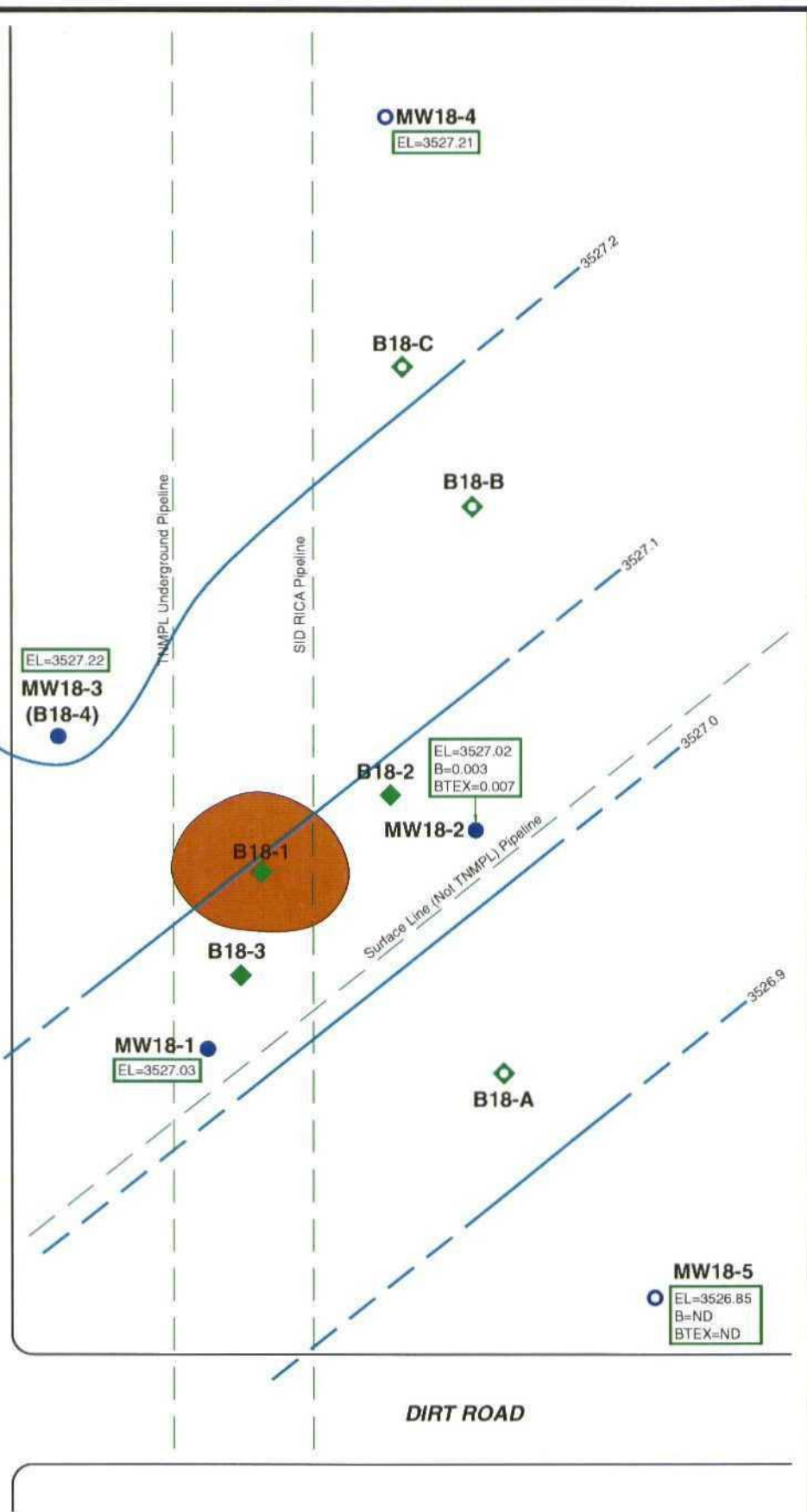
BTEX = Total Benzene, Toluene, Ethylbenzene, and Xylenes Concentration (mg/l)

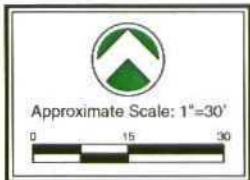
— Contour Interval = 0.10 feet

NOTES:

1. Ground water elevation in wells containing PSH was corrected using a factor of 0.882.
2. Ground water samples were obtained on February 19, 1998.
3. Ground water samples were not collected from MW18-1 and MW18-3 due to the presence of PSH.

1998-RM-G-TNMPL-0057-SITE (8/6/1 CW-Fair)





MW18-6
PSH=ND

MW-18-3
(B18-4)
PSH=2.32

MW18-4
PSH=Sheen
ND

B18-C

B18-B

B18-2

MW18-2
PSH=ND

B18-1

B18-3

MW18-1
PSH=2.20

B18-A

MW18-5
PSH=ND

LEGEND

- ◆ Soil boring locations drilled on September 11 and 12, 1997.
- Monitoring well locations drilled on September 11 and 12, 1997.
- ◆ Soil boring locations drilled on March 9 and 14, 1997.
- Monitoring well locations drilled on April 7 and 8, 1997.
- Approximate Location of Surface Stain
- PSH = Phase-separate hydrocarbon thickness (feet) measured on February 19 & 21, 1998.
- Contour Interval = 1.0 foot

PSH THICKNESS MAP - FEBRUARY 1998

TEXAS - NEW MEXICO PIPE LINE CO.

MONUMENT SITE NO. 18

LEA COUNTY, NEW MEXICO

610057

FIG 2

kei

K.E.I. Consultants, Inc.
Project Name: Monument Site #18
Project ID: 610057-6-18-0
Project Manager: Theresa Nix
Project Location: Monument, NM
Date Received in Lab : Feb 24, 1998 14:50
Date Report Faxed: Mar 2, 1998
XENCO contact : Carlos Castro/Edward Yonemoto

Analysis Requested	Lab ID: Field ID: Depth: Matrix: Sampled:	180727 001 MW-2	180727 002 MW-5	180727 003 MW-6	
		Liquid 02/19/98 16:29	Liquid 02/19/98 16:18	Liquid 02/19/98 16:39	
BTEX EPA 8020	Analyzed: Units:	02/26/98 ppm R.L.	02/26/98 ppm R.L.	02/26/98 ppm R.L.	
Benzene		0.003 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	
Toluene		< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	
Ethylbenzene		0.004 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	
m,p-Xylenes		< 0.002 (0.002)	< 0.002 (0.002)	< 0.002 (0.002)	
o-Xylene		< 0.001 (0.001)	< 0.001 (0.001)	< 0.001 (0.001)	
Total BTEX		0.007	N.D.	N.D.	

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The interpretations and results expressed through this analytical report represent the best judgment of XENCO Laboratories. Xenco Laboratories, however, assumes no responsibility and makes no warranty to the end use of the data hereby presented.


 Edward H. Yonemoto, Ph.D.
 Technical Director

SW- 846 5030/8020 BTEX and MTBE

Date Validated: Feb 27, 1998 13:10

Analyst: RL

Date Analyzed: Feb 26, 1998 08:44

Matrix: Liquid

QA/QC Manager: Sunil Ajai, M.S.

BLANK SPIKE ANALYSIS							
Parameter	[A]	[B]	[C]	[D]	[E]	[F]	[G] Qualifier
	Blank Result	Blank Spike Result	Blank Spike Amount	Method Detection Limit	QC	LIMITS	
	mg/L	mg/L	mg/L	mg/L	Blank Spike Recovery %	Recovery Range %	
Benzene	< 0.0010	0.0998	0.1000	0.0010	99.8	75-125	
Toluene	< 0.0010	0.0962	0.1000	0.0010	96.2	75-125	
Ethylbenzene	< 0.0010	0.0925	0.1000	0.0010	92.5	75-125	
MTBE	< 0.0200	0.9500	1.0000	0.0200	95.0	75-125	
m,p-Xylenes	< 0.0020	0.1940	0.2000	0.0020	97.0	75-125	
o-Xylene	< 0.0010	0.1020	0.1000	0.0010	102.0	75-125	

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

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

N.D. = Below detection limit

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


 Edward H. Yonemoto, Ph.D.
 Technical Director

Certificate Of Quality Control for Batch : 18A04B15

SW- 846 5030/8020 BTX and MTBE

Date Validated: Feb 27, 1998 13:10

Date Analyzed: Feb 26, 1998 10:03

QA/QC Manager: Sunil Ajai, M.S.

Analyst: RL

Matrix: Liquid

MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY										
Q.C. Sample ID 180715- 001	Parameter	[A] Sample Result mg/L	[B] Matrix Spike Result mg/L	[C] Matrix Spike Duplicate Result mg/L	[D] Matrix Spike Amount mg/L	[E] Method Detection Limit mg/L	Matrix Limit Relative Difference %	[F] QC		[J] Qualifier
								Spike Relative Difference %	Matrix Spike Recovery Range %	
Benzene		0.0176	0.1120	0.1090	0.1000	0.0010	20.0	2.7	94.4	75-125
Toluene		< 0.0010	0.0972	0.0929	0.1000	0.0010	20.0	4.5	97.2	75-125
Ethylbenzene		0.0033	0.0967	0.0924	0.1000	0.0010	20.0	4.5	93.4	75-125
MTBE		0.2090	1.1440	1.1900	1.0000	0.0200	20.0	3.9	93.5	75-125
m,p-Xylenes		< 0.0020	0.1960	0.1880	0.2000	0.0020	20.0	4.2	98.0	75-125
o-Xylene		< 0.0010	0.1020	0.0982	0.1000	0.0010	20.0	3.8	102.0	75-125

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

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

M.S.D. = Matrix Spike Duplicate

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

N.D. = Below detection limit or not detected

All results are based on MDL and validated for QC purposes


Edward H. Yonemoto, Ph.D.
Technical Director



ANALYTICAL CHAIN OF CUSTODY REPORT CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

XENCO COC#: 1-80727

Project ID: 610057-6-18-0

Project Manager: Theresa Nix

Project Location: Monument, NM

Project Name: Monument Site #18

Date Received in Lab: Feb 24, 1998 14:50 by AS

XENCO contact : Carlos Castro/Edward Yonemoto

Date and Time										
	Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Sample Collected	Addition Requested	Extraction	Analysis
1	MW-2	180727-001	BTEX	SW-846	ppm	Standard	Feb 19, 1998 16:29		Feb 26, 1998 by RL	Feb 26, 1998 16:46 by RL
2	MW-5	180727-002	BTEX	SW-846	ppm	Standard	Feb 19, 1998 16:18		Feb 26, 1998 by RL	Feb 26, 1998 17:05 by RL
3	MW-6	180727-003	BTEX	SW-846	ppm	Standard	Feb 19, 1998 16:39		Feb 26, 1998 by RL	Feb 26, 1998 17:24 by RL

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST FORM

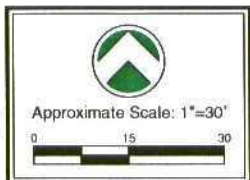
Lab. Batch #180727-H

Contractor		Phone (210) 620-3767		Contractor COC #	
Address		5309 Warzback, Suite 100 San Antonio TX 78208		Carrier: UPS	
Project Name		Monument site #18		Quote #:	
Project Location		Monument NW		P.O. No: 26-19	
Sample Signature		Theresa Wix		Airbill No.	
Project Director		Mike Hawthorne			
Project Manager		Theresa Wix			
Project No.		62057-6-18-0			
SAMPLE CHARACTERIZATION					
Field ID	Date	Time	DEPTH	SOIL	WATER
MW-2	2-19-98	1629			
MW-5	2-19-98	1618			
MW-6	2-19-98	1639			
PRESERVATIVE					
			Container	Size	Type
			G R A B	P	P G
			Ice	Other	
			Unl	Dies	Ker
			Waste Oil	HTI No.	Tank No.
			Sample Description		
No. of CONTAINERS					
Total					
Please Hold					
BTEX (5030/8020-602)					
TFH (482)					
Turn-around					
ASAP					
24 hrs					
48 hrs					
Standard					
Remarks					
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
Remarks					
Please fax Analytical TO					
Theresa Wix 210-620-3767					
and					
STAN Glover 505-393-2065					

Pink (Contractor), Yellow & White (Lab)

*** Pre-scheduling is recommended**

Precision Analytical Services



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ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

DIRT ROAD

MW18-6
EL=3527.16
B=ND
BTEX=ND

MW18-3
(B18-4)
EL=3527.12
PSH=2.20

MW18-4
EL=3527.18
PSH=Sheen

B18-C

B18-B

3527.1

EL=3527.08
B=0.006
BTEX=0.015

B18-2

MW18-2

B18-3

MW18-1
EL=3527.02
PSH=1.83

B18-A

3527.0

MW18-5
EL=3526.91
B=ND
BTEX=ND

DIRT ROAD

LEGEND

- ◆ Soil boring locations drilled on September 11 and 12, 1997.
- Monitoring well locations drilled on September 11 and 12, 1997.
- ◆ Soil boring locations drilled on March 9 and 14, 1997.
- Monitoring well locations drilled on April 7 and 8, 1997.
- Approximate Location of Surface Stain
- EL = Ground water elevation (feet) calculated from measurements obtained on February 19 & 21, 1998.
- PSH = Phase-separate hydrocarbon thickness (feet) measured on May 12, 1998.
- B = Benzene Concentration (mg/l)
- BTEX = Total Benzene, Toluene, Ethylbenzene, and Xylenes Concentration (mg/l)
- Contour Interval = 0.10 feet

NOTES:

1. Ground water elevation in wells containing PSH was corrected using a factor of 0.882.
2. Ground water samples were obtained on May 12, 1998.
3. Ground water samples were not collected from MW18-1, MW18-3, and MW18-4 due to the presence of PSH.

GROUND WATER CONTOURS / CONCENTRATION MAP - MAY 1998

TEXAS - NEW MEXICO PIPE LINE CO.

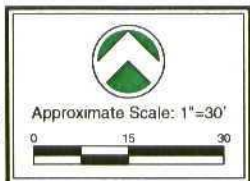
MONUMENT SITE NO. 18

LEA COUNTY, NEW MEXICO

610057

FIG 1

kei



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ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

MW18-6
PSH=ND

MW-18-3
(B18-4)
PSH=2.20

MW18-4
PSH=Sheen
ND

B18-C

B18-B

B18-2

MW18-2
PSH=ND

B18-1

B18-3

MW18-1
PSH=1.83

B18-A

MW18-5
PSH=ND

LEGEND

- ◆ Soil boring locations drilled on September 11 and 12, 1997.
- Monitoring well locations drilled on September 11 and 12, 1997.
- ◆ Soil boring locations drilled on March 9 and 14, 1997.
- Monitoring well locations drilled on April 7 and 8, 1997.
- Approximate Location of Surface Stain
- PSH = Phase-separate hydrocarbon thickness (feet) measured on May 12, 1998.
- Contour Interval = 1.0 foot

PSH THICKNESS MAP - MAY 1998

610057

TEXAS - NEW MEXICO PIPE LINE CO.

MONUMENT SITE NO. 18

LEA COUNTY, NEW MEXICO

FIG 2

GENERAL NOTES

ND - Indicates constituent was not detected above the method detection limit.
PSH - Phase-separated hydrocarbons.
SHEEN - Indicates a visible phase separation with a thickness less than 0.01 feet.

Depth to water is referenced from the top of PVC elevation.

Ground water elevations in monitoring wells containing PSH have been corrected for PSH density. (Correction Factor = 0.85 prior to October of 1997, Correction Factor = 0.882 beginning October of 1997)

Method detection limits: BTEX - 0.001 to 0.008 mg/l

Laboratory test methods: BTEX - EPA Method SW846-8020, 5030

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ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

TABLE I

**SUMMARY OF LABORATORY RESULTS - GROUND WATER
TEXAS - NEW MEXICO PIPE LINE COMPANY
MONUMENT SITE NO. 18
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)
MW18-2	05/02/97	0.010	ND	0.060	0.022	0.092
MW18-2	08/15/97	ND	ND	ND	ND	ND
MW18-2	11/02/97	0.002	ND	0.004	ND	0.006
MW18-2	02/19/98	0.003	ND	0.004	ND	0.007
MW18-2	05/12/98	0.006	0.004	0.005	ND	0.015
MW18-3	05/02/97	0.006	ND	ND	ND	0.006
MW18-5	09/19/97	ND	ND	ND	ND	ND
MW18-5	11/02/97	ND	ND	ND	ND	ND
MW18-5	02/19/98	ND	ND	ND	ND	ND
MW18-5	05/12/98	ND	ND	ND	ND	ND
MW18-6	09/19/97	ND	ND	ND	ND	ND
MW18-6	11/02/97	ND	ND	ND	ND	ND
MW18-6	02/19/98	ND	ND	ND	ND	ND
MW18-6	05/12/98	ND	ND	ND	ND	ND

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OIL CONSERVATION DIVISION**

TABLE II

**MONITORING WELL MW18-1
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
MONUMENT SITE NO. 18
LEA COUNTY, NEW MEXICO**

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
04/30/97	3,557.59	32.07	3525.52	3526.10	0.68
07/23/97	3,557.59	19.99	3537.60	---	---
08/15/97	3,557.59	33.86	3523.73	3525.96	2.62
10/23/97	3,558.71	34.47	3524.24	3527.04	3.18
11/02/97	3,558.71	34.55	3524.16	3527.02	3.24
12/09/97	3,558.71	34.02	3524.69	3526.99	2.61
12/17/97	3,558.71	33.97	3524.74	3527.00	2.56
01/02/98	3,558.71	31.37	3527.34	3528.53	1.35
01/30/98	3,558.71	33.90	3524.81	3527.03	2.52
02/06/98	3,558.71	33.76	3524.95	3527.03	2.36
02/13/98	3,558.71	33.66	3525.05	3527.03	2.25
02/21/98	3,558.71	33.62	3525.09	3527.03	2.20
02/25/98	3,558.71	33.40	3525.31	3527.05	1.97
03/04/98	3,558.71	33.36	3525.35	3527.04	1.92
03/13/98	3,558.71	33.51	3525.20	3527.02	2.07
03/17/98	3,558.71	33.11	3525.60	3527.05	1.65
03/24/98	3,558.71	33.20	3525.51	3526.95	1.64
03/31/98	3,558.71	33.33	3525.38	3527.03	1.87
04/07/98	3,558.71	33.11	3525.60	3527.03	1.62
04/17/98	3,558.71	33.52	3525.19	3527.02	2.08
04/21/98	3,558.71	33.16	3525.55	3527.02	1.67
04/28/98	3,558.71	33.11	3525.60	3527.02	1.61
05/06/98	3,558.71	33.27	3525.44	3527.02	1.79
05/12/98	3,558.71	33.30	3525.41	3527.02	1.83

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ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

TABLE II
(continued)

**MONITORING WELL MW18-2
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
MONUMENT SITE NO. 18
LEA COUNTY, NEW MEXICO**

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
04/30/97	3,558.54	32.67	3525.87	---	---
07/23/97	3,558.54	21.60	3536.94	---	---
08/15/97	3,558.54	32.52	3526.02	---	---
10/23/97	3,559.64	32.60	3527.04	---	---
11/02/97	3,559.64	32.63	3527.01	---	---
12/03/97	3,559.64	32.63	3527.01	---	---
01/02/98	3,559.64	32.62	3527.02	---	---
02/06/98	3,559.64	32.61	3527.03	---	---
02/19/98	3,559.64	32.62	3527.02	---	---
03/04/98	3,559.64	32.59	3527.05	---	---
04/07/98	3,559.64	32.63	3527.01	---	---
05/12/98	3,559.64	32.56	3527.08	---	---

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ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

TABLE II
(continued)

**MONITORING WELL MW18-3
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
MONUMENT SITE NO. 18
LEA COUNTY, NEW MEXICO**

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
04/30/97	3,557.43	31.26	3526.17	3526.36	0.22
07/23/97	3,557.43	21.78	3535.65	3535.66	0.01
08/15/97	3,557.43	33.65	3523.78	3526.08	2.70
10/23/97	3,558.53	33.80	3524.73	3527.15	2.75
11/02/97	3,558.53	33.80	3524.73	3527.13	2.73
12/03/97	3,558.53	33.81	3524.72	3527.13	2.74
12/09/97	3,558.53	33.52	3525.01	3527.12	2.40
12/17/97	3,558.53	33.58	3524.95	3527.13	2.48
01/02/98	3,558.53	33.60	3524.93	3527.13	2.50
01/30/98	3,558.53	33.49	3525.04	3527.15	2.40
02/06/98	3,558.53	33.38	3525.15	3527.14	2.26
02/13/98	3,558.53	33.36	3525.17	3527.14	2.24
02/21/98	3,558.53	33.35	3525.18	3527.22	2.32
02/25/98	3,558.53	33.26	3525.27	3527.15	2.14
03/04/98	3,558.53	33.32	3525.21	3527.15	2.21
03/13/98	3,558.53	33.41	3525.12	3527.13	2.29
03/17/98	3,558.53	33.18	3525.35	3527.16	2.06
03/24/98	3,558.53	33.24	3525.29	3527.17	2.14
03/31/98	3,558.53	33.38	3525.15	3527.16	2.28
04/07/98	3,558.53	33.37	3525.16	3527.13	2.24
04/17/98	3,558.53	33.47	3525.06	3527.14	2.36
04/21/98	3,558.53	33.21	3525.32	3527.13	2.06
04/28/98	3,558.53	33.37	3525.16	3527.13	2.24
05/06/98	3,558.53	33.38	3525.15	3527.13	2.25
05/12/98	3,558.53	33.34	3525.19	3527.12	2.20

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OIL CONSERVATION DIVISION

TABLE II
(continued)

**MONITORING WELL MW18-4
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
MONUMENT SITE NO. 18
LEA COUNTY, NEW MEXICO**

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
09/19/97	3,558.14	30.90	3527.24	3527.25	0.01
10/23/97	3,558.14	30.92	3527.22	---	---
11/02/97	3,558.14	30.94	3527.20	3527.21	0.01
12/03/97	3,558.14	30.95	3527.19	---	sheen
12/09/97	3,558.14	30.95	3527.19	---	sheen
12/17/97	3,558.14	30.94	3527.20	---	sheen
01/02/98	3,558.14	30.96	3527.18	---	sheen
01/30/98	3,558.14	30.94	3527.20	---	sheen
02/06/98	3,558.14	30.95	3527.19	---	---
02/13/98	3,558.14	30.95	3527.19	---	sheen
02/19/98	3,558.14	30.93	3527.21	---	sheen
02/25/98	3,558.14	30.93	3527.21	---	sheen
03/04/98	3,558.14	30.94	3527.20	---	sheen
03/13/98	3,558.14	30.96	3527.18	---	0.01
03/17/98	3,558.14	30.93	3527.21	---	sheen
03/24/98	3,558.14	30.94	3527.20	---	sheen
03/31/98	3,558.14	30.94	3527.20	---	sheen
04/07/98	3,558.14	30.95	3527.19	---	sheen
04/17/98	3,558.14	30.91	3527.23	---	sheen
04/21/98	3,558.14	30.96	3527.18	---	sheen
04/28/98	3,558.14	30.96	3527.18	---	sheen
05/06/98	3,558.14	30.96	3527.18	---	sheen
05/12/98	3,558.14	30.96	3527.18	---	sheen

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OIL CONSERVATION DIVISION

TABLE II
(continued)

**MONITORING WELL MW18-5
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
MONUMENT SITE NO. 18
LEA COUNTY, NEW MEXICO**

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
09/19/97	3,560.07	33.19	3526.88	---	---
10/23/97	3,560.07	33.20	3526.87	---	---
11/02/97	3,560.07	33.23	3526.84	---	---
12/03/97	3,560.07	33.23	3526.84	---	---
01/02/98	3,560.07	33.23	3526.84	---	---
02/06/98	3,560.07	33.22	3526.85	---	---
02/19/98	3,560.07	33.22	3526.85	---	---
03/04/98	3,560.07	33.20	3526.87	---	---
04/07/98	3,560.07	33.23	3526.84	---	---
05/12/98	3,560.07	33.16	3526.91	---	---

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ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

TABLE II
(continued)

**MONITORING WELL MW18-6
SUMMARY OF GROUND WATER MONITORING
TEXAS - NEW MEXICO PIPE LINE COMPANY
MONUMENT SITE 18
LEA COUNTY, NEW MEXICO**

DATE MEASURED	PVC ELEVATION (feet)	DEPTH TO WATER (feet)	GROUND WATER ELEVATION		PSH THICKNESS (feet)
			Actual	Corrected	
09/19/97	3,557.64	30.41	3527.23	---	---
10/23/97	3,557.64	30.44	3527.20	---	---
11/02/97	3,557.64	30.46	3527.18	---	---
12/03/97	3,557.64	30.47	3527.17	---	---
01/02/98	3,557.64	30.47	3527.17	---	---
02/06/98	3,557.64	30.45	3527.19	---	---
02/19/98	3,557.64	30.45	3527.19	---	---
03/04/98	3,557.64	30.43	3527.21	---	---
04/07/98	3,557.64	30.46	3527.18	---	---
05/12/98	3,557.64	30.48	3527.16	---	---

ANALYTICAL REPORT 1-81809

for

K.E.I. Consultants, Inc.

Project Manager: Theresa Nix

Project Name: TNMPL Monument St.#18

Project Id: 610057-6-18-0

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May 19, 1998

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OIL CONSERVATION DIVISION



HOUSTON - DALLAS - SAN ANTONIO

11381 Meadowglen Lane Suite L * Houston, Texas 77082-2647
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Houston - Dallas - San Antonio - Latin America

May 19, 1998

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

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OIL CONSERVATION DIVISION

Reference: **XENCO Report No.: 1-81809**
Project Name: TNMPL Monument St.#18
Project ID: 610057-6-18-0
Project Address: Monument, 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 1-81809. 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.

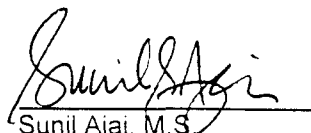
All the results for the quality control samples passed thorough examination. Also, all parameters for data reduction and validation checked satisfactorily. In view of this, we are able to release the analytical data for this report within acceptance criteria for accuracy, precision, completeness or properly 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. 1-81809 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,


Sunil Ajai, M.S.
Technical Director

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

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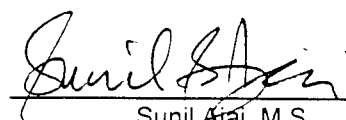
K.E.I. Consultants, Inc.**Project Name: TNMPL Monument St.#18****Project ID: 610057-6-18-0****Project Manager: Theresa Nix****Project Location: Monument, NM****Date Received in Lab : May 13, 1998 09:55****Date Report Faxed: May 19, 1998****XENCO contact : Carlos Castro/Edward Yonemoto**

Analysis Requested	<i>Lab ID:</i>	181809 001	181809 002	181809 003	
	<i>Field ID:</i>	MW-2	MW-5	MW-6	
	<i>Depth:</i>				
	<i>Matrix:</i>	Liquid	Liquid	Liquid	
	<i>Sampled:</i>	05/12/98 08:35	05/12/98 08:20	05/12/98 08:07	
BTEX	<i>Analyzed:</i>	05/15/98	05/15/98	05/15/98	
EPA 8020	<i>Units:</i>	ppm R.L.	ppm R.L.	ppm R.L.	
Benzene		0.006 (0.004)	< 0.004 (0.004)	< 0.004 (0.004)	
Toluene		0.004 (0.004)	< 0.004 (0.004)	< 0.004 (0.004)	
Ethylbenzene		0.005 (0.004)	< 0.004 (0.004)	< 0.004 (0.004)	
m,p-Xylenes		< 0.008 (0.008)	< 0.008 (0.008)	< 0.008 (0.008)	
o-Xylene		< 0.004 (0.004)	< 0.004 (0.004)	< 0.004 (0.004)	
Total BTEX		0.015	N.D.	N.D.	

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OIL CONSERVATION DIVISION**

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.


Sunil Ajai, M.S.
Technical Director



Certificate Of Quality Control for Batch : 18A25B46

SW- 846 5030/8020 BTEX

Date Validated: May 18, 1998 11:45

Analyst: HL

Date Analyzed: May 15, 1998 10:12

Matrix: Liquid

QA/QC Manager: Eddie Clemons, B.S.

BLANK SPIKE ANALYSIS

Parameter	[A]	[B]	[C]	[D]	[E]	[F]	[G] Qualifier
	Blank	Blank Spike	Blank	Detection	QC	LIMITS	
	Result	Result	Spike	Limit	Blank Spike	Recovery	
	ppm	ppm	Amount	ppm	Recovery	Range	
			ppm		%	%	
Benzene	< 0.0010	0.0970	0.1000	0.0010	97.0	65-135	
Toluene	< 0.0010	0.0957	0.1000	0.0010	95.7	65-135	
Ethylbenzene	< 0.0010	0.0979	0.1000	0.0010	97.9	65-135	
m,p-Xylenes	< 0.0020	0.2010	0.2000	0.0020	100.5	65-135	
o-Xylene	< 0.0010	0.0981	0.1000	0.0010	98.1	65-135	

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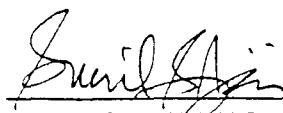
ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

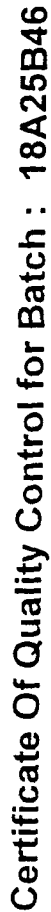
Blank Spike Recovery [E] = $100 \times (B-A)/(C)$

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

N.D. = Below detection limit

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


Sunil Agar, M.S.
Technical Director

**SW- 346 5030/3020 BTEX**

Date Validated: May 18, 1998 11:45

Date Analyzed: May 15, 1998 10:51

QA/QC Manager: Eddie Clemons, B.S.

Analyst: HL

Matrix: Liquid

MATRIX SPIKE / MATRIX SPIKE DUPLICATE AND RECOVERY

Q.C. Sample ID 131B07- 002	Parameter	[A]	[B]	[C]	[D]	[E]	Matrix Limit		[F]	[G]	[H]	[I]	[J]
		Sample Result ppm	Matrix Spike Result ppm	Matrix Spike Duplicate Result ppm	Matrix Spike Amount ppm	Detection Limit ppm	Relative Difference	%	QC	QC	QC	Matrix Spike Recovery Range %	Qualifier
									Spike Relative Difference	Matrix Spike Recovery	M.S.D. Recovery		
Benzene		0.0673	0.1600	0.1650	0.1000	0.0010	20.0		3.1	92.7	97.7	65-135	
Toluene		0.0088	0.1080	0.1130	0.1000	0.0010	20.0		4.5	99.2	104.2	65-135	
Ethylbenzene		0.0023	0.1020	0.1060	0.1000	0.0010	20.0		3.8	99.7	103.7	65-135	
m,p-Xylenes		< 0.0020	0.2030	0.2120	0.2000	0.0020	20.0		4.3	101.5	106.0	65-135	
o-Xylene		< 0.0010	0.0997	0.1040	0.1000	0.0010	20.0		4.2	99.7	104.0	65-135	

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


Sunil Ajai, M.S.
Technical Director

All results are based on MDL and validated for QC purposes

Pharmacokinetics

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ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION



ANALYTICAL CHAIN OF CUSTODY REPORT CHRONOLOGY OF SAMPLES

K.E.I. Consultants, Inc.

XENCO COC#: 1-81809

Project Name: TNMPL Monument St.#18

Project ID: 610057-6-18-0

Project Manager: Theresa Nix

Date Received in Lab: May 13, 1998 09:55 by DH

Project Location: Monument, NM

XENCO contact : Carlos Castro/Edward Yonemoto

Date and Time									
Field ID	Lab. ID	Method Name	Method ID	Units	Turn Around	Sample Collected	Addition Requested	Extraction	Analysis
1 MW-2	181809-001	BTEX	SW-846	ppm	3 days	May 12, 1998 08:35		May 15, 1998 by HL	May 15, 1998 17:15 by HL
2 MW-5	181809-002	BTEX	SW-846	ppm	3 days	May 12, 1998 08:20		May 15, 1998 by HL	May 15, 1998 17:34 by HL
3 MW-6	181809-003	BTEX	SW-846	ppm	3 days	May 12, 1998 08:07		May 15, 1998 by HL	May 15, 1998 17:53 by HL

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ENVIRONMENTAL BUREAU
OIL CONSERVATION DIVISION

Lab. Batch # 181809-68

Contractor K.E.I. Consultants		Phone (210) 680-3767		No. coolers this shipment		Contractor COC # 137	
Address 5309 Wurzbach, Ste. 100 San Antonio, TX 78238				Carrier: UPS		Quote #:	
Project Name TRMPL monument site 18		Project Director Mike Hawthorne		Airbill No.		P.O. No: 8957	
Project Location Monument, NM		Project Manager Theresa Nix					
Sampler Signature <i>[Signature]</i>		Project No. 610057-6-18-0					

SAMPLE CHARACTERIZATION										Preservative		Waste Oil		Tank No.	
Field ID	Date	Time	DEPTH	SOIL	WATER	COMB	GRA	Container Size	Type	PG	Is	Other	Sample Description	PTT No.	Unknown
MW-2	12 May 98	8:35			/	/	/	40 ml	/			HCl			
MW-5	12 May 98	8:20			/	/	/	40 ml	/			HCl			
MW-6	12 May 98	8:07			/	/	/	40 ml	/			HCl			

No. of CONTAINERS		Total	
2	2	2	2
2	2	2	2
2	2	2	2

Field ID	Date	Time	Signature	Received by	DATE	TIME
					5-12-98	1600

Field ID	Date	Time	Signature	Received by	DATE	TIME
					5/13/98	0935

Field ID	Date	Time	Signature	Received by	DATE	TIME
					5/13/98	0935

Field ID	Date	Time	Signature	Received by	DATE	TIME
					5/13/98	0935

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					5/13/98	0935

Field ID	Date	Time	Signature	Received by	DATE	TIME
					5/13/98	0935

Field ID	Date	Time	Signature
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Pink (Contractor), Yellow & White (Lab).

***Pre-scheduling is recommended**

Precision Analytical Services