3R - 206

REPORTS

DATE:
1999

EL PASO
FIELD SERVICES

Certified Mail: # Z 213 707 369

December 13, 2000

Mr. William C. Olson
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87504

RE: Missing Information for Groundwater Sites Requested for Closure in the 1999 Pit Project Annual Groundwater Report

Dear Mr. Olson:

El Paso Field Services Company (EPFS) hereby submits the missing information requested in our December 11, 2000 telephone conversation. You indicated the "Field Pit Assessment Form", "Field Pit Remediation / Closure Form" and supporting documentation where not included with the four non-Navajo and two Navajo pits requested for closure in the "1999 Pit Project Closure Report" submitted March 24, 2000.

Attached please find the above mentioned information for the following sites:

1. K-51 Line Drip T26N, R06W, Sec. 6, Unit A,
2. Mesa CPD T29N, R14W, Sec. 4, Unit E, Information included in 1998 Groundwater Report; copy provided.
3. Sheets Well No. 2 T31N, R9W, Sec. 28, Unit H
4. Turner A # 1 T31N, R11W, Sec. 34, Unit K, Pits 1 and 2
5. Charlie Pah # 2 T27N, R9W, Sec. 12, Unit B, (Navajo Jurisdiction)
6. John Charles # 8 Information not included. OCD approved site for closure July 8, 1998. Navajo EPA has not approved site for closure.

EPFS apologizes for omission of the attached information in the original closure request. If you have any questions or require any additional information, please contact me at (505) 599-2124.

Sincerely,

Scott T. Pope P.G.
Senior Environmental Scientist

Enclosures: as stated

xc: Mr. Denny Foust, NMOCD – Aztec – Certified Mail # Z 387 666 165

K-51 Line Drip

FIELD PIT SITE ASSESSMENT FORM

LD244

GENERAL

A342606

Meter: N/A Location: K-51 Line Drip

Operator #: N/A Operator Name: EPNG P/L District: Ojito

Coordinates: Letter: A Section 34 Township: 26 Range: 06

Or Latitude _____ Longitude _____

Pit Type: Dehydrator ___ Location Drip: ___ Line Drip: X Other: _____

Site Assessment Date: 09-12-95 Area: 06 Run: 61

SITE ASSESSMENT

NMOCD Zone: (From NMOCD Maps) Inside ☒ (1) Outside ☐ (2)

Land Type: BLM ☒ (1) State ☐ (2) Fee ☐ (3) Indian _____

Depth to Groundwater

Less Than 50 Feet (20 points) ☒ (1)

50 Ft to 99 Ft (10 points) ☐ (2)

Greater Than 100 Ft (0 points) ☐ (3)

Wellhead Protection Area :

Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction? , or ; Is it less than 200 ft from a private domestic water source? ☐ (1) YES (20 points) ☒ (2) NO (0 points)

Horizontal Distance to Surface Water Body

Less Than 200 Ft (20 points) ☐ (1)

200 Ft to 1000 Ft (10 points) ☒ (2)

Greater Than 1000 Ft (0 points) ☐ (3)

Name of Surface Water Body Tapicito Creek

(Surface Water Body : Perennial Rivers, Major Wash, Streams, Creeks, Irrigation Canals, Ditches, Lakes, Ponds)

Distance to Nearest Ephemeral Stream ☐ (1) < 100' (Navajo Pits Only)

☒ (2) > 100'

TOTAL HAZARD RANKING SCORE: 30 **POINTS**

REMARKS

Remarks : Red Line + Topo Both show inside VZ.

K-51 line Drip Belongs to Epng. Will close pit.

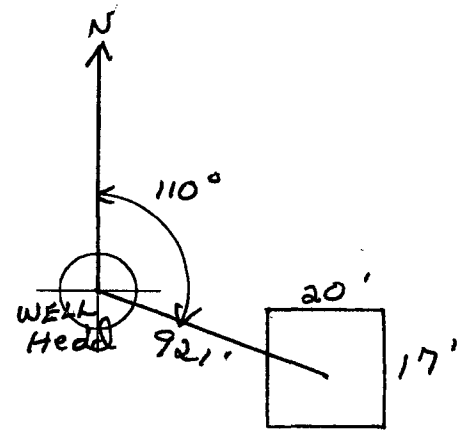
ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 110° Footage from Wellhead 921'

b) Length : 20' Width : 17' Depth : 3'

Bearing From well Loc.
KLein #19 well Head



REMARKS

Remarks :

photos : 1406 5pict

Took measurements and Bearing From well head on KLein #19 87+18 34-26-6 distance and Bearing are approx, due to heavy Brush + inability to see Line Drip.

Tapicito Canyon

Directions - Go past KLein #19 (East) Look For keep Right Sign - at sign Look Left Line Drip is just before cotton woods in Bottom.

Completed By:

James L Lewis
Signature

9-12-95
Date

FIELD PIT REMEDIATION/CLOSURE FORM

LD244

GENERAL

Meter: N/A Location: K-51 Line Drip

Coordinates: Letter: A Section 34 Township: 26 Range: 06

Or Latitude _____ Longitude _____ .

Date Started : 9-21-95 Run: 06 61

FIELD OBSERVATIONS

Sample Number(s): MK470 water sample MK471 soil sample _____ _____

Sample Depth: 14 Feet

Final PID Reading 382 ppm PID Reading Depth 14' Feet

	Yes	No
Groundwater Encountered	☒	☐

Approximate Depth 10 Feet

CLOSURE

Remediation Method :

Excavation	☒	Approx. Cubic Yards 230
Onsite Bioremediation	☐	
Backfill Pit Without Excavation	☐	

Soil Disposition:

Envirotech	☒	☐	Tierra
Other Facility	☐	Name:	_____

Pit Closure Date: 9-25-95 Pit Closed By: Philip

REMARKS

Remarks : Arrived dug sample hole contamination started about 5' could not Reach clean Bottom DUE to Cave IN N-wall 456 ppm South-wall 765 ppm E-Wall 504 ppm W-wall 520 ppm Bottom 434 ppm 50 Pound Fertilizer

Signature of Specialist: Morgan Killion

El Paso Natural Gas Company

Phase I

CHAIN OF CUSTODY RECORD

Page _____ of _____

PROJECT NUMBER	PROJECT NAME
# 24324	Pit Closure Project

SAMPLERS: (*Signature*) Morgan Killion

DATE: 9-25-95

LAB ID	DATE	TIME	MATRIX	FIELD ID	TOTAL NUMBER OF CONTAINERS	SAMPLE TYPE	REQUESTED ANALYSIS: TPH EPA 418.1	BTEX EPA 8020	TAB PID			SEQUENCE #	REMARKS
947525	9-25-95	09:00	Soil	MK471	1	VG	X	X	382			423	K-51 Inc Drip Soil Sample LD244
947526	9-25-95	10:50	Soil	MK472	1	VG	X	X	7			424	Klein #23 87850 87849

RELINQUISHED BY: (*Signature*)	DATE/TIME	RECEIVED BY: (*Signature*)	RELINQUISHED BY: (*Signature*)	DATE/TIME	RECEIVED BY: (*Signature*)
Morgan Killion 9-25-95	18:50	Julie Dietle	Julie Dietle	9/26/95 9:55	
RELINQUISHED BY: (*Signature*)	DATE/TIME	RECEIVED BY: (*Signature*)	RELINQUISHED BY: (*Signature*)	DATE/TIME	RECEIVED OF LABORATORY BY: (*Signature*)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH _____

CARRIER CO.

BILL NO.:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

FIELD SERVICES LABORATORY
EL PASO NATURAL GAS COMPANY
P. O. BOX 4990
FARMINGTON, NEW MEXICO 87499

505-599-2144 FAX: 505-599-2261

White - *Testing Laboratory* Canary - *EPNG Lab* Pink - *Field Sampler*

FM-08-0565 A (Rev. 05-94)

El Paso Natural Gas Company

Phase I

CHAIN OF CUSTODY RECORD

Page _____ of _____

PROJECT NUMBER	PROJECT NAME
# 24324	Pit Closure Project

SAMPLERS: (*Signature*) Morgan Killion DATE: 9-22-95

LAB ID	DATE	TIME	MATRIX	FIELD ID	TOTAL NUMBER OF CONTAINERS	SAMPLE TYPE	REQUESTED ANALYSIS: TPH EPA 418.1	BTEX EPA 8020	LAB PID			SEQUENCE #	REMARKS
94752D	9-22-95	10:00	water	MK470	2 VG 9-25-95	VG	X	X				422	K-51 line drip LD244

CONTRACT LABORATORY P. O. NUMBER

RELINQUISHED BY: (*Signature*)	DATE/TIME	RECEIVED BY: (*Signature*)	RELINQUISHED BY: (*Signature*)	DATE/TIME	RECEIVED BY: (*Signature*)
Morgan Killion 9-22-95	20:05	Julie Diddle	Julie Diddle	9/23/95 8:30	
RELINQUISHED BY: (*Signature*)	DATE/TIME	RECEIVED BY: (*Signature*)	RELINQUISHED BY: (*Signature*)	DATE/TIME	RECEIVED OF LABORATORY BY: (*Signature*)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH _____

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White - *Testing Laboratory* Canary - *EPNG Lab* Pink - *Field Sampler*

FM-08-0565 A (Rev. 05-94)

SPLIT

El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Soil Samples Outside the GWV Zone

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	MK471	947525
MTR CODE | SITE NAME:	LD244	K-51 Line Drip
SAMPLE DATE | TIME (Hrs):	09-25-95	0900
PROJECT:	Phase I	
DATE OF TPH EXT. | ANAL.:	9-28-95	
DATE OF BTEX EXT. | ANAL.:	9/26/95	9/26/95
TYPE | DESCRIPTION:	VC	Dark brown Sand & Clay

REMARKS: (N-456)(S-765)(E-504)(W-520)

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS DF	Q	M(g)	V(ml)	ATI Results
BENZENE	11.6	MG/KG	10	D			2.8
TOLUENE	188	MG/KG	10	D			34
ETHYL BENZENE	34.8	MG/KG	10	D			9.0
TOTAL XYLENES	404	MG/KG	10	D,D1			97
TOTAL BTEX	638	MG/KG	10	D			142.8
TPH (418.1)	3970	MG/KG			2.03	25	4000
HEADSPACE PID	382	PPM					Surrogate % 205
PERCENT SOLIDS	82.0	%					Dilution Factor 20

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 98% for this samp All QA/QC was acceptable.

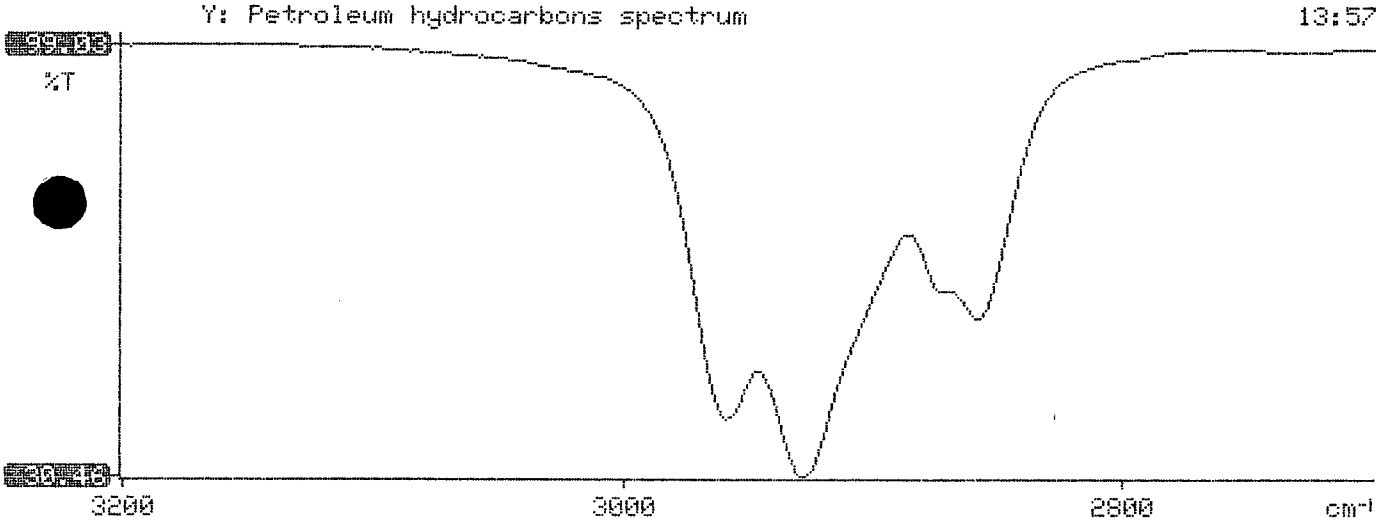
Narrative:

Result for xylenes (m+p) was above calibration range.
ATI Results attached. Surrogate recovery outside ATI QC limits due to matrix interfe

DF = Dilution Factor Used

Approved By: [signature] Date: 10-10-95

```
**************************************************
*                  Test Method for               *
*     Oil and Grease and Petroleum Hydrocarbons  *
*                 in Water and Soil              *
*                                                *
*           Perkin-Elmer Model 1600 FT-IR        *
*                  Analysis Report               *
**************************************************
*
 95/09/28  13:56
*
*  Sample identification
 947525
*
*  Initial mass of sample, g
 2.080
*
*  Volume of sample after extraction, ml
 28.000
*
*  Petroleum hydrocarbons, ppm
 3974.320
*  Net absorbance of hydrocarbons (2930 cm-1)
 0.510
*
*
*
```



BTEX SOIL SAMPLE WORKSHEET

File	947525	**Date Printed**	9/27/95
Soil Mass (g)	4.94	**Multiplier (L/g)**	0.00101
Extraction vol. (mL)	10	**DF (Analytical)**	1000
Shot Volume (uL)	10	**DF (Report)**	1.01215

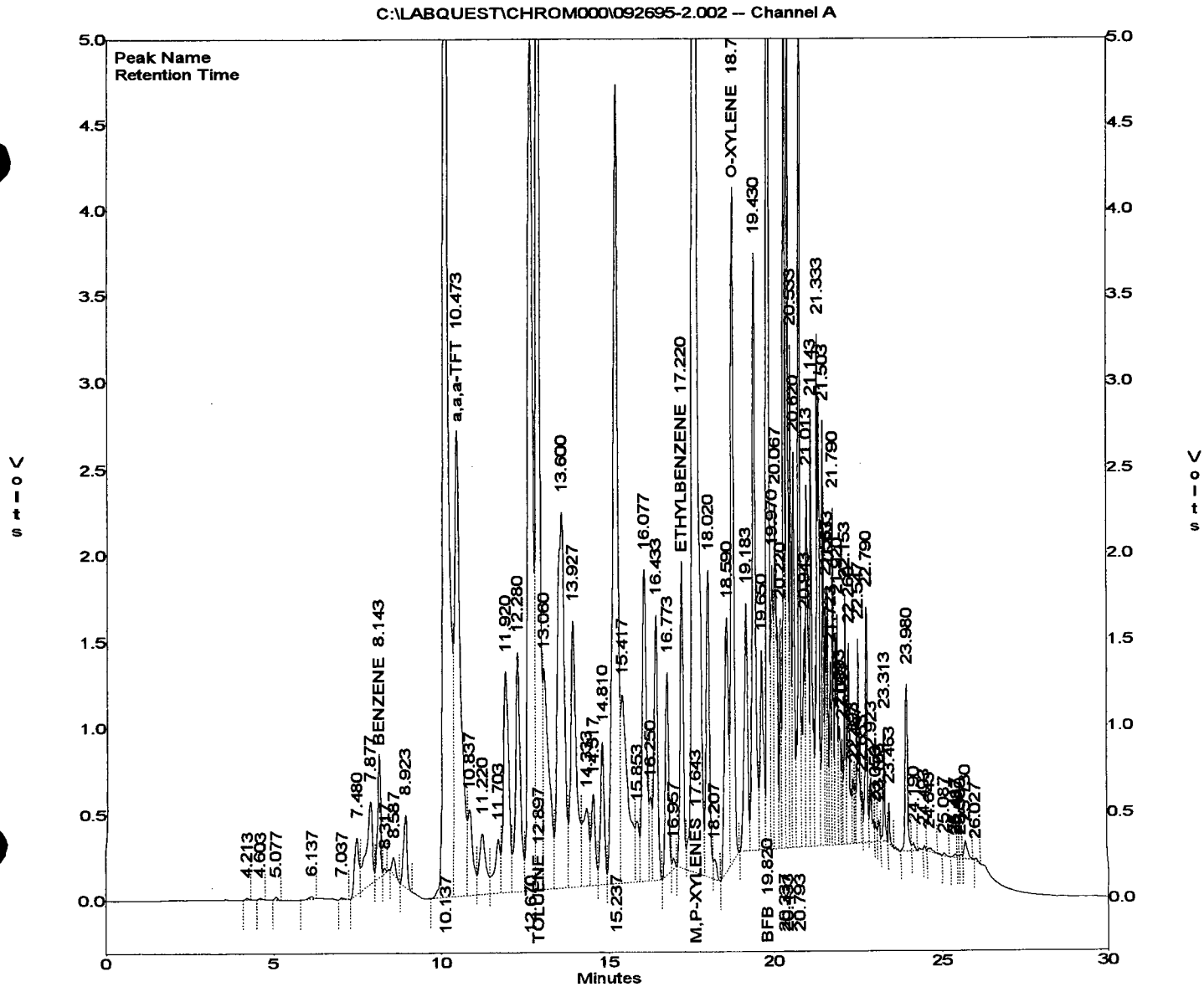
				Det. Limit
Benzene (ug/L)	11.50	**Benzene (mg/Kg)**	**11.640**	2.530
Toluene (ug/L)	186.00	**Toluene (mg/Kg)**	**188.259**	2.530
Ethylbenzene (ug/L)	34.40	**Ethylbenzene (mg/Kg)**	**34.818**	2.530
p & m-xylene (ug/L)	319.00	p & m-xylene (mg/Kg)	322.874	5.061
o-xylene (ug/L)	80.30	o-xylene (mg/Kg)	81.275	2.530
		Total xylenes (mg/Kg)	**404.150**	7.591
		Total BTEX (mg/Kg)	**638.866**	

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM000\092695-2.002
Method : C:\LABQUEST\METHODS\9000.MET
Sample ID : 947525,4.94G,10U
Acquired : Sep 26, 1995 16:27:49
Printed : Sep 26, 1995 16:58:21
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	8.143	4384979	11.5038
a,a,a-TFT	10.473	34195220	390.8660
TOLUENE	12.897	62673080	185.8036
ETHYLBENZENE	17.220	11866613	34.3602
M,P-XYLENES	17.643	113318464	319.0650
O-XYLENE	18.773	26405990	80.3063
BFB	19.820	53536412	98.2174



Analytical Technologies, Inc.

GAS CHROMATOGRAPHY RESULTS

TEST : BTEX (EPA 8020)

CLIENT : EL PASO NATURAL GAS ATI I.D.: 509397

PROJECT # : 24324

PROJECT NAME : PIT CLOSURE/PHASE I & II

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
09	947525	NON-AQ	09/25/95	09/28/95	09/29/95	20

PARAMETER	UNITS	09
BENZENE	MG/KG	2.8
TOLUENE	MG/KG	34
ETHYLBENZENE	MG/KG	9.0
TOTAL XYLENES	MG/KG	97

SURROGATE:

BROMOFLUOROBENZENE (%) 205*

*OUTSIDE ATI QUALITY CONTROL LIMITS DUE TO MATRIX INTERFERENCE

Analytical Technologies, Inc.

Sample # 947525

GENERAL CHEMISTRY RESULTS

CLIENT	: EL PASO NATURAL GAS	ATI I.D.	: 509397
PROJECT #	: 24324	DATE RECEIVED	: 09/27/95
PROJECT NAME	: PIT CLOSURE/PHASE I & II	DATE ANALYZED	: 09/28/95

PARAMETER	UNITS	09
PETROLEUM HYDROCARBONS, IR	MG/KG	4000

Analytical**Technologies,**Inc.

2709-D Pan American Freeway, NE Albuquerque, NM 87107
Phone (505) 344-3777 FAX (505) 344-4413

ATI I.D. 509397

October 5, 1995

El Paso Natural Gas
P.O. Box 4990
Farmington, NM 87499

Project Name/Number: PIT CLOSURE/PHASE I & II 24324

Attention: John Lambdin

On **09/27/95**, Analytical Technologies, Inc., (ADHS License No. AZ0015), received a request to analyze **non-aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

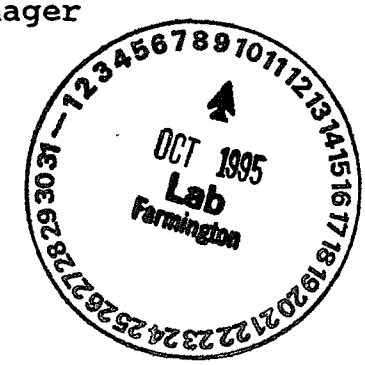
If you have any questions or comments, please do not hesitate to contact us at (505) 344-3777.

Kimberly D. McNeill
Project Manager

John Epley for
H. Mitchell Rubenstein, Ph.D.
Laboratory Manager

MR:jt

Enclosure



El Paso Natural Gas Company

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Water

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	947520
FIELD ID:	MK470
MTR CODE:	LD244
SAMPLE DATE:	09-22-95
SAMPLE TYPE:	W (Groundwater)
SITE NAME:	K-51 Line Drip
PROJECT:	Phase I
DATE OF BTEX ANALYSIS:	9/25/95

FIELD COMMENTS: _____

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT	QUALIFIER	WQCC LIMIT PPB
TDS - TOTAL DISSOLVED SOLIDS (PPM)			None
BENZENE (PPB)	7290	D (X100)	10
TOLUENE (PPB)	13,600	D (X100)	740
ETHYL BENZENE (PPB)	556	D (X100)	750
TOTAL XYLENES (PPB)	6,650	D (X100)	620
SURROGATE % RECOVERY	102%	Allowed Range 80 to 120 %	

NOTES:

Approved By: John Leeder

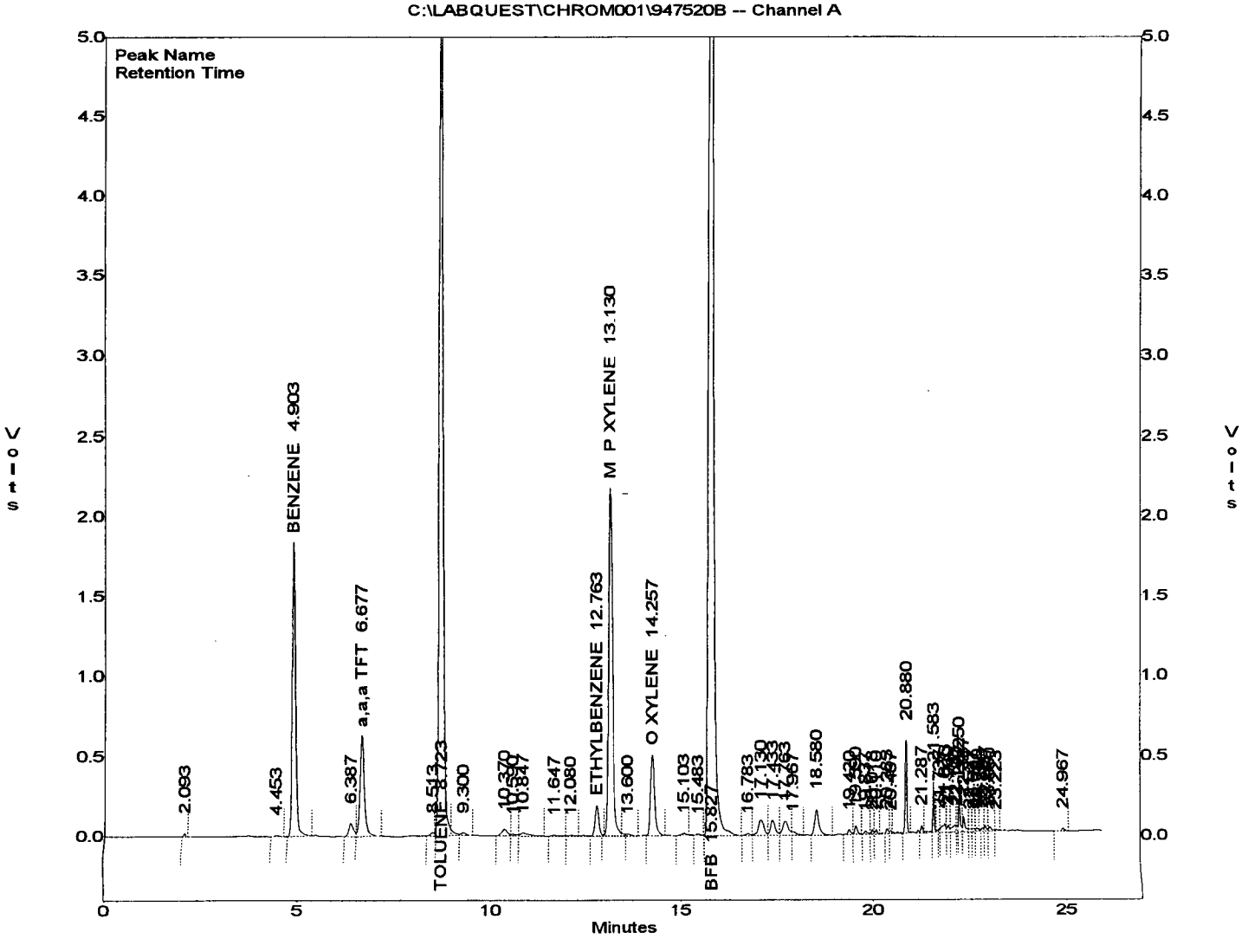
9-26-95
Date

EL PASO NATURAL GAS
EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\947520B
Method : C:\LABQUEST\METHODS\9001.MET
Sample ID : 947520x100
Acquired : Sep 25, 1995 13:20:25
Printed : Sep 25, 1995 13:46:52
User : MARLON

Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	4.903	10896136	7286.9521
a,a,a TFT	6.677	4929858	10678.2461
TOLUENE	8.723	37915244	13599.9980
ETHYLBENZENE	12.763	1368592	555.7170
M & P XYLENE	13.130	16165813	5129.3813
O XYLENE	14.257	3846558	1522.1080
BFB	15.827	73993520	10207.5234



El Paso Natural Gas Company

Phase I

CHAIN OF CUSTODY RECORD

Page _____ of _____

PROJECT NUMBER	PROJECT NAME
# 24324	Pit Closure Project

SAMPLERS: (Signature) Mark Killion DATE: 9-22-95

LAB ID	DATE	TIME	MATRIX	FIELD ID	TOTAL NUMBER OF CONTAINERS	SAMPLE TYPE	TPH EPA 418.1	BTEX EPA 8020	LAB PID			SEQUENCE #	REMARKS
94752D	9-22-95	10:00	water	MK470	2 ~~1~~ 3 VG	VG	X	X				422	K-51 line drip LD244

CONTRACT LABORATORY P. O. NUMBER

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)
Mark Killion	9-22-95 20:05	Julie Diddle	Julie Diddle	9/23/95 8:30	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED OF LABORATORY BY: (Signature)

REQUESTED TURNAROUND TIME:
☐ ROUTINE ☐ RUSH

CARRIER CO.

BILLING:

SAMPLE RECEIPT REMARKS

CHARGE CODE

RESULTS & INVOICES TO:

FIELD SERVICES LABORATORY
EL PASO NATURAL GAS COMPANY
P. O. BOX 4990
FARMINGTON, NEW MEXICO 87499
505-599-2144
FAX: 505-599-2261

White - Testing Laboratory Canary - EPNG Lab Pink - Field Sampler

FM-08-0565 A (Rev. 05-94)

EL PASO
FIELD SERVICES

Certified Mail: **#Z 213 707 666 (Box 1 of 2)**
#Z 213 707 664 (Box 2 of 2)

March 24, 2000

Mr. William C. Olson
New Mexico Oil Conservation Division
2040 S. Pacheco
Santa Fe, NM 87504

RE: 1999 Pit Project Annual Groundwater Report

Dear Mr. Olson:

In accordance with reporting requirements, El Paso Field Services (EPFS) has enclosed annual updates for the 32 remaining groundwater impacted locations that were identified during our pit closure project of 1994 / 1995.

Of the 32 reports, EPFS hereby requests closure of 4 of these locations. The 4 sites EPFS is requesting closure on are presented in one separate binder entitled "San Juan Basin Pit Closures, El Paso Field Services, Pit Closure Reports".

The Jaquez Com. C #1 and Jaquez Com. E #1 site is included in a separate report which is entitled "Jaquez Com. C #1 and Jaquez Com. E #1 Annual Report for Soil and Groundwater Remediation".

EPFS has also included for your information five Navajo sites in a separate binder and a separate report for the Bisti Flare Pit #1.

If you have any questions concerning the enclosed reports or closure requests, please call me at (505) 599-2124.

Sincerely,

Scott T. Pope P.G.
Senior Environmental Scientist

xc: Mr. Denny Foust, NMOCD, Aztec - w / enclosures; **Certified Mail # Z 213 707 667**
Mr. Bill Liesse, BLM – w / enclosures; **Certified Mail # Z 213 707 668**
Mr. John Jaquez, - w / Jaquez enclosures; **Certified Mail # Z 213 707 669**
Ms. Charmaine Tso, Navajo EPA – w / enclosures; **Certified Mail # Z 213 707 670**

bc: J. A. Lambdin w / enclosures
Philip Services Corp. – Cecil Irby, w / o enclosures
B. B. McDaniel / 24321 – NMOCD Regulatory w / o

SAN JUAN BASIN PIT CLOSURES
San Juan Basin, New Mexico

El Paso Field Services
Pit Closure Reports

March 2000

Prepared For

El Paso Field Services
Farmington, New Mexico

Project 62800158

EPFS GROUNDWATER PITS
1999 CLOSURE REPORT

K-51 LINE DRIP
Meter/Line ID - LD244

SITE DETAILS

Legals - Twn: 26N **Rng:** 6W **Sec:** 34 **Unit:** A
NMOCD Hazard Ranking: 30 **Land Type:** FEDERAL
Operator: EL PASO FIELD SERVICES

PREVIOUS ACTIVITIES

Site Assessment: Sep-95 **Excavation:** Sep-95 (230 cy) **Soil Boring:** May-97
Monitor Well: May-97 **Quarterly Sampling Initiated:** July-97

All supporting documentation for activities prior to 1999 can be found in the Annual Report for the year the activity occurred.

1999 ACTIVITIES

Quarterly Groundwater Monitoring - Quarterly groundwater samples were collected from monitoring well MW-1 for BTEX.

SUMMARY TABLES

A summary of analytical results is presented in Table 1. Copies of the 1999 laboratory data sheets and associated quality assurance/quality control data are presented in Attachment 1.

SITE MAP

A site map is presented as Figure 1.

GEOLOGICAL LOGS AND WELL COMPLETION DIAGRAMS

No drilling activities occurred in 1999 at this site.

DISPOSITION OF GENERATED WASTES

There were no generated wastes at this site during 1999.

ISOCONCENTRATION MAPS

BTEX parameters are below regulatory standards and isoconcentration maps were not generated.

CONCLUSIONS

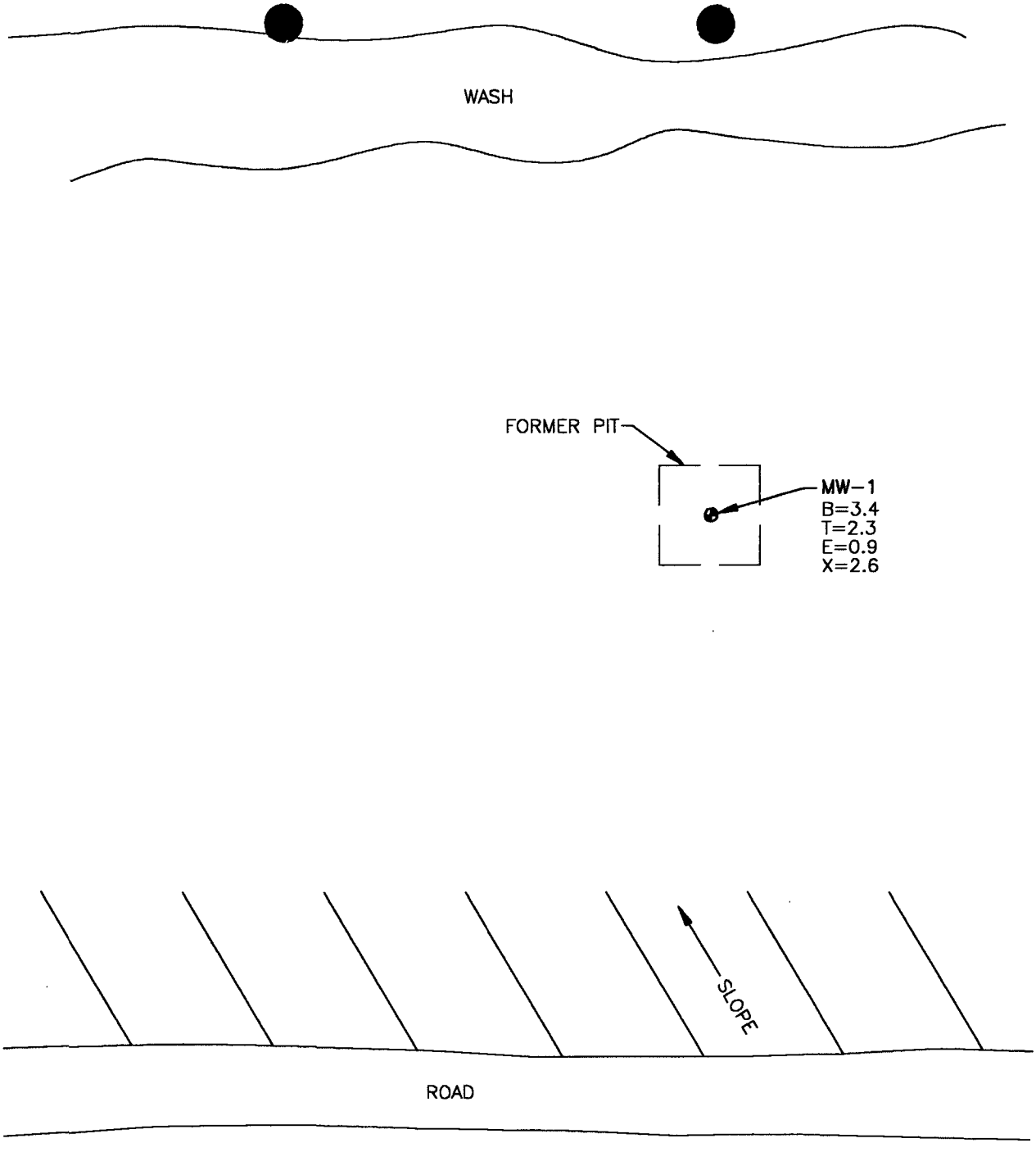
Analytical results of groundwater samples collected from MW-1 show levels of hydrocarbon constituents below New Mexico Groundwater Standards for all analytes during the last four consecutive quarters that were sampled.

EPFS has demonstrated four consecutive quarters below NMWQCC Standards for BTEX in groundwater. EPFS requests closure of this site.

RECOMMENDATIONS

EPFS requests closure of this site.

- Following OCD approval for closure, MW-1 will be abandoned in accordance with the Monitoring Well Abandonment Plan.



LEGEND

MW-1	MONITORING WELL NUMBER AND APPROXIMATE LOCATION
B	BENZENE (ug\L)
T	TOLUENE (ug\L)
E	ETHYL BENZENE (ug\L)
X	XYLENE (ug\L)
ug\L	MICROGRAMS PER LITER

NOT TO SCALE

N

PHILIP SERVICES

TITLE:
K-51 LINE DRIP
LD244
OCTOBER 11, 1999

DWN:	DES.:	PROJECT NO.: 17520
CJG	CI	EPFS GW PITS
CHKD: CI	APPD:	
DATE: 02/11/00	REV.: 0	FIGURE 1

COL 17520A1-003

TABLE 1

Sample #	Meter/ Line #	Site Name	Sample Date	MW #	Project	Benzene (PPB)	Toluene (PPB)	Ethyl Benzene (PPB)	Total Xylenes (PPB)	Total BTEX
970512	LD244	K-51 Line Drip	05/29/1997	1	Phase II Drilling - Initial	= 93	= 283	= 21.6	= 184	= 582
970700	LD244	K-51 Line Drip	07/22/1997	1	Sample 4 - 1st Quarter	= 81.90	= 117	= 10.20	= 92.90	= 302
971124	LD244	K-51 Line Drip	10/21/1997	1	Sample 4 - 2nd Quarter	= 6.01	= 1.35	< 1.00	= 4.88	= 13.24
980015	LD244	K-51 Line Drip	01/08/98	1	Sample 4 - 3rd Quarter	= 5.76	< 1.00	< 1.00	= 2.09	= 8.00
980313	LD244	K-51 Line Drip	04/23/98	1	Sample 4 - 4th Quarter	= 16.70	= 11.90	= 1.12	= 8.99	= 39.00
980533	LD244	K-51 Line Drip	07/21/98	1	Sample 4 - 5th Quarter	= 14.90	= 6.85	< 1.00	= 4.21	= 26.00
980696	LD244	K-51 Line Drip	10/08/98	1	Sample 4 - 6th Quarter	= 1.36	< 1.00	< 1.00	< 3.00	= 1.36
990012	LD244	K-51 Line Drip	01/14/00	1	Sample 4 - 7th Quarter	= 3.87	< 1.00	< 1.00	< 3.00	= 4.00
990174	LD244	K-51 Line Drip	04/15/99	1	Sample 4 - 8th Quarter	= 5.31	= 3.09	< 1.00	< 3.00	= 8.00
990395	LD244	K-51 Line Drip	09/27/99	1	Sample 4 - 9th Quarter	= 3.40	= 2.30	= 0.90	= 2.60	= 9.20

ATTACHMENT 1
1999 GROUNDWATER ANAYLTICAL

Sample 4 7TH QTR

HTAM: PSC - 1-19-99 HJS - 1-20-99 A 2424

El Paso Natural Gas Company

CHAIN OF CUSTODY RECORD

Project No.	Project Name	Type and No. of Sample Containers	Preservation Technique	Requested Analysis			Remarks
	MC #LD244			BTXE			
Samplers: (Signature) Dennis Bird	Date: 1-14-99						

MATRIX	Date	Time	Comp.	GRAB	Sample Number							
WATER	1-14-99	1324		X	990013	G-1	3⁴F	X				K-5 LINE DRIP

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Dennis Bird	1-14-99 1723				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks:	
		John Kelly	1-15-99 1515		

Carrier Co:	Carrier Phone No.	Date Results Reported / by: (Signature)
Air Bill No.:		

san juan repro Form 71-55 A

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	990012
MTR CODE | SITE NAME:	LD244	K-51 Line Drip
SAMPLE DATE | TIME (Hrs):	1/14/99	1324
PROJECT:	Sample 4 7th Quarter	
ATE OF BTEX EXT. | ANAL.:	NA	1/15/99
TYPE | DESCRIPTION:	MW-1	Water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	3.87	PPB				
TOLUENE	<1	PPB				
ETHYL BENZENE	<1	PPB				
TOTAL XYLENES	<3	PPB				
TOTAL BTEX	4	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 96.8 for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative:

Approved By: John Fowler Date: 1-18-99

EL PASO FIELD SERVICES

Well Development and Purging Data

☐ Development
☒ Purging

Well Number MW-1

Site Name K-51 LINE DRIP

Meter Code LO244

Development Criteria

☒ 3 to 5 Casing Volumes of Water Removel
☐ Stabilization of Indicator Parameters
☐ Other

Water Volume Calculation

Initial Depth of Well (feet) 23.00
Initial Depth to Water (feet) 12.02
Height of Water Column in Well (feet) 10.98
Diameter (inches): Well 4 Gravel Pack

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		7.3	21.8
Gravel Pack			
Drilling Fluids			
Total			

Instruments

☒ pH Meter
☐ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☒ Other D.O. CHEMETS KIT

Methods of Development

Pump		Bailer	
☐	Centrifugal	☒	Bottom Valve
☐	Submersible	☐	Double Check Valve
☐	Peristaltic	☐	Stainless-steel Kemmerer

☐ Other

Water Disposal

KUTZ SEPARATOR

Water Removal Data

Date	Time	Development Method		Removal Rate	Intake Depth	Ending Water Depth	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer	(gal/min)	(feet)	(feet)	Increment	Cumulative	Increment	Cumulative					
1-14-99	1246										13.8	7.80	1433		
1-14-99	1250						5.0	5.0			12.6	7.54	1482		
1-14-99	1255						5.0	10.0			12.3	7.48	1533		
1-14-99	1302						5.0	15.0			12.2	7.54	1619		
1-14-99	1308						5.0	20.0			12.2	7.61	1600		
1-14-99	1315						5.0	25.0			12.3	7.66	1674	2.5	

Comments

Developer's Signature Dennis Bird Date 1-14-99 Reviewer John Landi Date 1-18-99

EL PASO FIELD SERVICES

QUALITY CONTROL REPORT

EPA METHOD 8020 - BTEX

Samples: 990010 to 990013

QA/QC for 1/15/99 Sample Set

LABORATORY CALIBRATION CHECKS / LABORATORY CONTROL SAMPLES:

SAMPLE NUMBER ICV LA-52589 25 PPB	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE RANGE	YES	NO
Benzene	Standard	25.0	26.2	105	75 - 125 %	X	
Toluene	Standard	25.0	26.3	105	75 - 125 %	X	
Ethylbenzene	Standard	25.0	26.6	106	75 - 125 %	X	
m & p - Xylene	Standard	50	51.7	103	75 - 125 %	X	
o - Xylene	Standard	25.0	26.8	107	75 - 125 %	X	
SAMPLE NUMBER LCS LA-45476 25 PPB	**TYPE**	**EXPECTED RESULT PPB**	**ANALYTICAL RESULT PPB**	**%R**	**ACCEPTABLE RANGE**	**YES**	**NO**
Benzene	Standard	25.0	27.7	111	39 - 150	X	
Toluene	Standard	25.0	27.6	110	46 - 148	X	
Ethylbenzene	Standard	25.0	27.1	109	32 - 160	X	
m & p - Xylene	Standard	50.0	53.1	106	Not Given	X	
o - Xylene	Standard	25.0	27.9	112	Not Given	X	

Narrative: Acceptable.

LABORATORY DUPLICATES:

SAMPLE ID 990010	TYPE	SAMPLE RESULT PPB	DUPLICATE RESULT PPB	RPD	ACCEPTABLE RANGE	YES	NO
Benzene	Matrix Duplicate	13.3	13.3	0.13	+/- 20 %	X	
Toluene	Matrix Duplicate	2.5	2.5	0.16	+/- 20 %	X	
Ethylbenzene	Matrix Duplicate	7.03	6.97	0.90	+/- 20 %	X	
m & p - Xylene	Matrix Duplicate	5.00	5.0	0.31	+/- 20 %	X	
o - Xylene	Matrix Duplicate	2.50	2.49	0.57	+/- 20 %	X	

Narrative: Acceptable.

LABORATORY SPIKES:

SAMPLE ID 2nd Analysis 990010	SPIKE ADDED PPB	SAMPLE RESULT PPB	SPIKE SAMPLE RESULT PPB	%R	ACCEPTABLE RANGE	YES	NO
Benzene	25	13.3	38.4	100.4	75 - 125 %	X	
Toluene	25	2.5	28.4	103.5	75 - 125 %	X	
Ethylbenzene	25	7.0	32.4	101.3	75 - 125 %	X	
m & p - Xylene	50	5.0	56.8	103.5	75 - 125 %	X	
o - Xylene	25	2.5	28.5	104.1	75 - 125 %	X	

Narrative: Acceptable

Narrative: Acceptable

AUTO BLANK	SOURCE	PPB (3 analyzed with set)	STATUS
Benzene	Boiled Water	<1.0	ACCEPTABLE
Toluene	Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

SOIL VIAL BLANK	SOURCE Lot MB1461	PPB (none analyzed with set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

CONTAMINATION CARRYOVER CHECK	SOURCE	PPB (none analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

1/14/99 TRIP BLANK	SOURCE	PPB (one analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

Reported By: J.F. Approved By: John Fowler Date: 1-18-99

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	990174
MTR CODE | SITE NAME:	LD244	K-51 Line Drip
SAMPLE DATE | TIME (Hrs):	4/15/99	1328
PROJECT:	Sample 4 - 8th Quarter	
)ATE OF BTEX EXT. | ANAL.:	NA	4/22/99
TYPE | DESCRIPTION:	MW-1	Water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	5.31	PPB				
TOLUENE	3.09	PPB				
ETHYL BENZENE	<1.0	PPB				
TOTAL XYLENES	<3.0	PPB				
TOTAL BTEX	8	PPB				

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 112.0 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative:

Approved By: _____ Date: 4/23/99

Stanolind & Starr

El Paso Natural Gas Company

A 2445

CHAIN OF CUSTODY RECORD

Project No.	Project Name	Type and No. of Sample Containers	Preservation Technique	Requested Analysis				Remarks
	MC #102M							
Samplers: (Signature) Dennis Bird	Date: 4-16-99							

Date	Time	Comp.	GRAB	Sample Number						
4-16-99	1328		X	990174	6J	SPF	X				4" FLOWLINE DRIP MW-1

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Dennis Bird	4-16-99 1735				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Relinquished by: (Signature)	Date/Time	Received by: (Signature)
Relinquished by: (Signature)	Date/Time	Received for Laboratory by: (Signature)	Date/Time	Remarks:	
		John Faulk	4-22-99 4-28-99 1405	Cod & Int Rec	

Carrier Co:	Carrier Phone No.	Date Results Reported / by: (Signature)
Air Bill No.:		

EL PASO FIELD SERVICES

Well Development and Purging Data

☐ Development
☒ Purging

Well Number MW-1

Site Name K-51 LINE DRIP

Meter Code LD744

Development Criteria

☒ 3 to 5 Casing Volumes of Water Removel
☐ Stabilization of Indicator Parameters
☐ Other

Methods of Development

Pump		Bailer	
☐	Centrifugal	☒	Bottom Valve
☐	Submersible	☐	Double Check Valve
☐	Peristaltic	☐	Stainless-steel Kemmerer

☐ Other

Water Volume Calculation

Initial Depth of Well (feet) 23.00
Initial Depth to Water (feet) 11.95
Height of Water Column in Well (feet) 11.05
Diameter (inches): Well 4 Gravel Pack

Item	Water Volume in Well: Cubic Feet	Water Volume in Well: Gallons	Gallons to be Removed
Well Casing		7.3	21.9
Gravel Pack			
Drilling Fluids			
Total			

Instruments

☒ pH Meter
☐ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☒ Other D.O. CHEMETS KIT

Water Disposal

KOTZ SEPARATOR

Water Removal Data

Date	Time	Development Method: Pump	Development Method: Bailer	Removal Rate (gal/min)	Intake Depth (feet)	Ending Water Depth (feet)	Water Volume Removed (gal): Increment	Water Volume Removed (gal): Cumulative	Product Volume Removed (gallons): Increment	Product Volume Removed (gallons): Cumulative	Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
4-15-99	1248										13.4	7.78	1328		
4-15-99	1252						5.0	5.0			12.4	7.43	1371		
4-15-99	1257						5.0	10.0			12.3	7.34	1476		
4-15-99	1305						5.0	15.0			12.5	7.48	1482		
4-15-99	1310						5.0	20.0			12.4	7.56	1478		
4-15-99	1318						5.0	25.0			12.6	7.55	1536	2.5	

Comments

Developer's Signature Dennis Bird Date 4-15-99 Reviewer John Ford Date 4/23/99

EL PASO FIELD SERVICES

QUALITY CONTROL REPORT
EPA METHOD 8020 - BTEX
Samples: 990173 to 990181

QA/QC for 04/22/99 Sample Set

LABORATORY CALIBRATION CHECKS / LABORATORY CONTROL SAMPLES:

SAMPLE NUMBER ICV LA-52589 50 PPB	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE RANGE	YES	NO
Benzene	Standard	50.0	47.1	94.2	75 - 125 %	X	
Toluene	Standard	50.0	46.9	93.7	75 - 125 %	X	
Ethylbenzene	Standard	50.0	47.6	95.1	75 - 125 %	X	
m & p - Xylene	Standard	100	95.8	95.8	75 - 125 %	X	
o - Xylene	Standard	50.0	47.2	94.4	75 - 125 %	X	
SAMPLE NUMBER LCS LA-45476 25 PPB	**TYPE**	**EXPECTED RESULT PPB**	**ANALYTICAL RESULT PPB**	**%R**	**ACCEPTABLE RANGE**	**YES**	**NO**
Benzene	Standard	25.0	22.7	91	39 - 150	X	
Toluene	Standard	25.0	22.7	91	46 - 148	X	
Ethylbenzene	Standard	25.0	23.0	92	32 - 160	X	
m & p - Xylene	Standard	50.0	46.1	92	Not Given	X	
o - Xylene	Standard	25.0	22.9	92	Not Given	X	

Narrative: Acceptable.

LABORATORY DUPLICATES:

SAMPLE ID 990173	TYPE	SAMPLE RESULT PPB	DUPLICATE RESULT PPB	RPD	ACCEPTABLE RANGE	YES	NO
Benzene	Matrix Duplicate	10.5	10.7	1.61	+/- 20 %	X	
Toluene	Matrix Duplicate	1.52	1.54	0.86	+/- 20 %	X	
Ethylbenzene	Matrix Duplicate	9.36	9.63	2.79	+/- 20 %	X	
m & p - Xylene	Matrix Duplicate	3.50	3.57	2.05	+/- 20 %	X	
o - Xylene	Matrix Duplicate	1.16	1.19	2.51	+/- 20 %	X	

Narrative: Acceptable.

LABORATORY SPIKES:

SAMPLE ID 2nd Analysis 990173	SPIKE ADDED PPB	SAMPLE RESULT PPB	SPIKE SAMPLE RESULT PPB	%R	ACCEPTABLE RANGE	YES	NO
Benzene	25	10.5	31.6	84	75 - 125 %	X	
Toluene	25	1.52	21.9	81	75 - 125 %	X	
Ethylbenzene	25	9.36	30.4	84	75 - 125 %	X	
m & p - Xylene	50	3.50	45.9	85	75 - 125 %	X	
o - Xylene	25	1.16	22.0	83	75 - 125 %	X	

Narrative: Acceptable.

AUTO BLANK	SOURCE	PPB (1 analyzed with set)	STATUS
Benzene	Boiled Water	<1.0	ACCEPTABLE
Toluene	Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

SOIL VIAL BLANK	SOURCE Lot MB1461	PPB (one analyzed with set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

CONTAMINATION CARRYOVER CHECK	SOURCE	PPB (one analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

TRIP BLK 04/15,16,19/99	SOURCE	PPB (three analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethylbenzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

Reported By: J.L. Approved By: John Lawler Date: 4-23-99

EL PASO FIELD SERVICES

FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	990395
MTR CODE | SITE NAME:	LD244	K-51 Line Drip
SAMPLE DATE | TIME (Hrs):	09/27/1999	1401
PROJECT:	Sample 4 9th Quarter	
DATE OF BTEX EXT. | ANAL.:	N/A	10/01/1999
TYPE | DESCRIPTION:	MW-1	Water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	3.4	PPB				
TOLUENE	2.3	PPB				
ETHYL BENZENE	0.9	PPB				
TOTAL XYLENES	2.6	PPB				
TOTAL BTEX	9.2	PPB				

--BTEX is by EPA Method 8021 --

The Surrogate Recovery was at 107.0 % for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative:
Sample Analyzed by Pinnacle Laboratories, Albuquerque, NM.

Approved By: John Fowler Date: 10-11-99

EL PASO FIELD SERVICES

Sample 4 - 4th Quarter

Well Development and Purging Data

☐ Development
☒ Purging

Well Number MW-1

Site Name K-51 LINE DRIP

Meter Code LD244

Development Criteria

☒ 3 to 5 Casing Volumes of Water Removel
☐ Stabilization of Indicator Parameters
☐ Other_____

Methods of Development

Pump		Bailer	
☐	Centrifugal	☒	Bottom Valve
☐	Submersible	☐	Double Check Valve
☐	Peristaltic	☐	Stainless-steel Kemmerer

☐ Other_____

Water Volume Calculation

Initial Depth of Well (feet) 23.00
Initial Depth to Water (feet) 12.58
Height of Water Column in Well (feet) 10.42
Diameter (inches): Well 4 Gravel Pack_____

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		6.9	20.7
Gravel Pack			
Drilling Fluids			
Total			

Instruments

☒ pH Meter
☐ DO Monitor
☒ Conductivity Meter
☒ Temperature Meter
☒ Other D.O. CHEMETS KIT

Water Disposal

KUTZ SEPARATOR

Water Removal Data

Date	Time	Development Method		Removal Rate	Intake Depth	Ending Water Depth	Water Volume Removed (gal)		Product Volume Removed (gallons)		Temperature °C	pH	Conductivity µmho/cm	Dissolved Oxygen mg/L	Comments
		Pump	Bailer	(gal/min)	(feet)	(feet)	Increment	Cumulative	Increment	Cumulative					
9-27-99	1305										20.0	7.34	1299		
9-27-99	1312						5.0	5.0			18.0	7.55	1340		
9-27-99	1320						5.0	10.0			17.1	7.71	1381		
9-27-99	1330						5.0	15.0			17.1	7.81	1423		
9-27-99	1337						5.0	20.0			17.0	7.82	1404		
9-27-99	1346						5.0	25.0			16.8	7.82	1404	2.5	

Comments_____

Developer's Signature Dennis Bird Date 9-27-99 Reviewer John Sanders Date 10-11-99

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

Pinnacle Lab ID number **909086**
October 06, 1999

EL PASO FIELD SERVICES
770 WEST NAVAJO
FARMINGTON, NM 87401

Project Name PIT MONITOR WELL
Project Number (none)

LD244
K-51 Line Drip
Sample 4 - 4th Qtr

Attention: JOHN LAMBDIN

On 9/30/99 Pinnacle Laboratories, Inc. Inc., (ADHS License No. AZ0592 pending), received a request to analyze **aqueous** samples. The samples were analyzed with EPA methodology or equivalent methods. The results of these analyses and the quality control data, which follow each set of analyses, are enclosed.

If you have any questions or comments, please do not hesitate to contact us at (505)344-3777.

for

H. Mitchell Rubenstein, Ph. D.
General Manager

MR: jt

Enclosure

Reviewed + Approved
J. Landon 10/11/99

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

CLIENT	: EL PASO FIELD SERVICES	PINNACLE ID	: 909086
PROJECT #	: (none)	DATE RECEIVED	: 9/30/99
PROJECT NAME	: PIT MONITOR WELL	REPORT DATE	: 10/6/99

PIN ID. #	CLIENT DESCRIPTION	MATRIX	DATE COLLECTED
01	990395	AQUEOUS	9/27/99
02	TRIP BLANK	AQUEOUS	9/27/99

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS

TEST : EPA 8021 MODIFIED
CLIENT : EL PASO FIELD SERVICES PINNACLE I.D.: 909086
PROJECT # : (none)
PROJECT NAME : PIT MONITOR WELL

SAMPLE ID. #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	990395	AQUEOUS	9/27/99	NA	10/1/99	1
02	TRIP BLANK	AQUEOUS	9/27/99	NA	10/1/99	1

PARAMETER	DET. LIMIT	UNITS	990395	TRIP BLANK
BENZENE	0.5	**UG/L**	**3.4**	< 0.5
TOLUENE	0.5	**UG/L**	**2.3**	< 0.5
ETHYLBENZENE	0.5	**UG/L**	**0.9**	< 0.5
TOTAL XYLENES	0.5	**UG/L**	**2.6**	< 0.5

SURROGATE:
BROMOFLUOROBENZENE (%) 107 102
SURROGATE LIMITS (80 - 120)

CHEMIST NOTES:
N/A

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY RESULTS
REAGENT BLANK

TEST	: EPA 8021 MODIFIED	PINNACLE I.D.	: 909086
BLANK I. D.	: 100199	DATE EXTRACTED	: NA
CLIENT	: EL PASO FIELD SERVICES	DATE ANALYZED	: 10/1/99
PROJECT #	: (none)	SAMPLE MATRIX	: AQUEOUS
PROJECT NAME	: PIT MONITOR WELL		

PARAMETER	UNITS	
BENZENE	UG/L	<0.5
TOLUENE	UG/L	<0.5
ETHYLBENZENE	UG/L	<0.5
TOTAL XYLENES	UG/L	<0.5
SURROGATE:		
BROMOFLUOROBENZENE (%)		103
SURROGATE LIMITS:	(80 - 120)	

CHEMIST NOTES:
N/A

PINNACLE LABORATORIES

2709-D Pan American Freeway NE
Albuquerque, New Mexico 87107
Phone (505) 344-3777
Fax (505) 344-4413

GAS CHROMATOGRAPHY QUALITY CONTROL
MSMSD

TEST	: EPA 8021 MODIFIED		
MSMSD #	: 100199	PINNACLE I.D.	: 909086
CLIENT	: EL PASO FIELD SERVICES	DATE EXTRACTED	: NA
PROJECT #	: (none)	DATE ANALYZED	: 10/1/99
PROJECT NAME	: PIT MONITOR WELL	SAMPLE MATRIX	: AQUEOUS
		UNITS	: UG/L

PARAMETER	SAMPLE RESULT	CONC SPIKE	SPIKED SAMPLE	% REC	DUP SPIKE	DUP % REC	RPD	REC LIMITS	RPD LIMITS
BENZENE	<0.5	20.0	19.5	98	19.4	97	1	(80 - 120)	20
TOLUENE	<0.5	20.0	19.6	98	19.8	99	1	(80 - 120)	20
ETHYLBENZENE	<0.5	20.0	19.7	99	20.1	101	2	(80 - 120)	20
TOTAL XYLENES	<0.5	60.0	60.0	100	60.9	102	1	(80 - 120)	20

CHEMIST NOTES:
N/A

$$\% \text{ Recovery} = \frac{(\text{Spike Sample Result} - \text{Sample Result})}{\text{Spike Concentration}} \times 100$$

$$\text{RPD (Relative Percent Difference)} = \frac{(\text{Sample Result} - \text{Duplicate Result})}{\text{Average Result}} \times 100$$

American Environmental Network (NM), Inc.

CHAIN OF CUSTODY

DATE: 9-29-99 PAGE: 1 OF 1

AEN(NM) Accession #: 909086

SHADED AREAS ARE FOR LAB USE ONLY.

PLEASE FILL THIS FORM IN COMPLETELY.

PROJECT MANAGER: JOHN CAMBRIN

COMPANY: EL PASO FIELD SERVICES

ADDRESS: 770 WEST NAVAJO
FARMINGTON NM 87401

PHONE: (505) 599-2144

FAX: (505) 599-2261

BILL TO: SAME AS ABOVE

COMPANY:

ADDRESS:

LAB USE ONLY	SAMPLE ID	DATE	TIME	MATRIX	LAB I.D.
	990395	9-27-99	1409	WATER	01
	TRIP BLANK	9-27-99		WATER	02

ANALYSIS REQUEST

Petroleum Hydrocarbons (418.1) TRPH	(MOD.8015) Diesel/Direct Inject	(M8015) Gas/Purge & Trap	8021 (BTEX)/8015 (Gasoline)	8021 (BTEX) ☐ MTBE ☐ TMB ☐ PCE	8021 (TCL)	8021 (EDX)	8021 (HALO)	8021 (CUST)	504.1 EDB ☐ / DBCP ☐	8260 (TCL) Volatile Organics	8260 (Full) Volatile Organics	8260 (CUST) Volatile Organics	8260 (Landfill) Volatile Organics	Pesticides /PCB (608/8081)	Herbicides (615/8151)	Base/Neutral/Acid Compounds GC/MS (625/8270)	Polynuclear Aromatics (610/8310)	General Chemistry:			Priority Pollutant Metals (13)	Target Analyte List Metals (23)	RCRA Metals (8)	RCRA Metals by TCLP (Method 1311)	Metals:		NUMBER OF CONTAINERS
				X																						2
				X																						1

PROJECT INFORMATION	
PROJ. NO.:	
PROJ. NAME: PT MONITOR WELL	
P.O. NO.:	
SHIPPED VIA: FED-X	

SAMPLE RECEIPT	
NO. CONTAINERS	3
CUSTODY SEALS	Y / N / (NA)
RECEIVED INTACT	YES
BLUE ICE	5°C

PRIOR AUTHORIZATION IS REQUIRED FOR RUSH PROJECTS

(RUSH) ☐ 24hr ☐ 48hr ☐ 72hr ☐ 1 WEEK (NORMAL) ☒

CERTIFICATION REQUIRED: ☐ NM ☐ SDWA ☐ OTHER

METHANOL PRESERVATION ☐

COMMENTS: FIXED FEE ☐

RELINQUISHED BY: 1.	RELINQUISHED BY: 2.
Signature: Dennis Bird Time: 1123	Signature: Time:
Printed Name: DENNIS BIRD Date: 9-29-99	Printed Name: Date:
Company: EL PASO FIELD SERVICE	Company:
RECEIVED BY: 1.	**RECEIVED BY: (LAB) 2.**
Signature: Time:	Signature: Time: 1430
Printed Name: Date:	Printed Name: Date: 9/30/99
Company:	American Environmental Network (NM), Inc.

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