3R - 241

REPORTS

DATE:

1997



Certified Mail: #Z 295 387 297; #Z 295 387 296

RECEIVED

February 27, 1998

MAR 0 2 1998

Environmental Bureau
Oil Conservation Division

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

Re: 1997 Groundwater Annual Report

Dear Mr. Olson:

In accordance with reporting requirements, El Paso Field Services (EPFS) has enclosed annual updates for 57 groundwater impacted locations that were identified during our pit closure project of 1994/1995.

Of the 57 reports, EPFS hereby requests your approval for closure of 11 of these locations. The 11 reports for which EPFS requests closure, are in 2 separate binders entitled "Request for Closure".

After you have had an opportunity to review these updates, EPFS would like to schedule a meeting with you to discuss issues related to closure criteria for some of the more complex locations that are currently being addressed.

If you have any questions regarding this information, please call me at 505/599-2141. I will contact you within the next quarter to schedule a meeting.

Sincerely,

Såndra D. Miller

Environmental Manager

xc: Mr. Bill Liesse, BLM w/o enclosures

Simole O Milles

Mr. Denny Foust, NMOCD - Aztec w/enclosures; Certified Mail #Z 295 387 298; #Z 295 387 299

Ms. Charmaine Tso, Navajo EPA w/enclosures; Certified Mail #Z 295 387 292

SAN JUAN BASIN PIT CLOSURES San Juan Basin, New Mexico

El Paso Field Services Pit Project Pit Closure Report

March 1998

Prepared For

El Paso Field Services Farmington, New Mexico

Project 17520



EPFS GROUNDWATER PITS 1997 ANNUAL GROUNDWATER REPORT

TRUJILLO GC #1 PC Meter/Line ID - 72089

SITE DETAILS

Legals - Twn: 29N

Rng: 10W

Sec: 21

Unit: M

NMOCD Hazard Ranking: 60

Land Type: FEE

Operator: AMOCO PRODUCTION COMPANY

PREVIOUS ACTIVITIES

Site Assessment: Oct-95

Excavation: Oct-95 (1,060 cy)

Geoprobe: Nov-95

The pit was excavated to approximately 6 feet below ground surface (bgs) and a soil sample was collected. The headspace soil reading from the excavation bottom was 483 parts per million. Soil analytical from the excavation bottom were as follows; benzene - <0.5 mg/kg, total BTEX - 1.2 mg/kg, TPH - 3,620 mg/kg. Groundwater was encountered at approximately 5 feet bgs and a groundwater sample was collected from the open excavation. The sample was above standards for benzene.

Piezometers were installed in the center, and up and down gradient of the former pit. Groundwater samples collected from the piezometers were all below standards for BTEX, as presented in Figure 1.

CONCLUSIONS

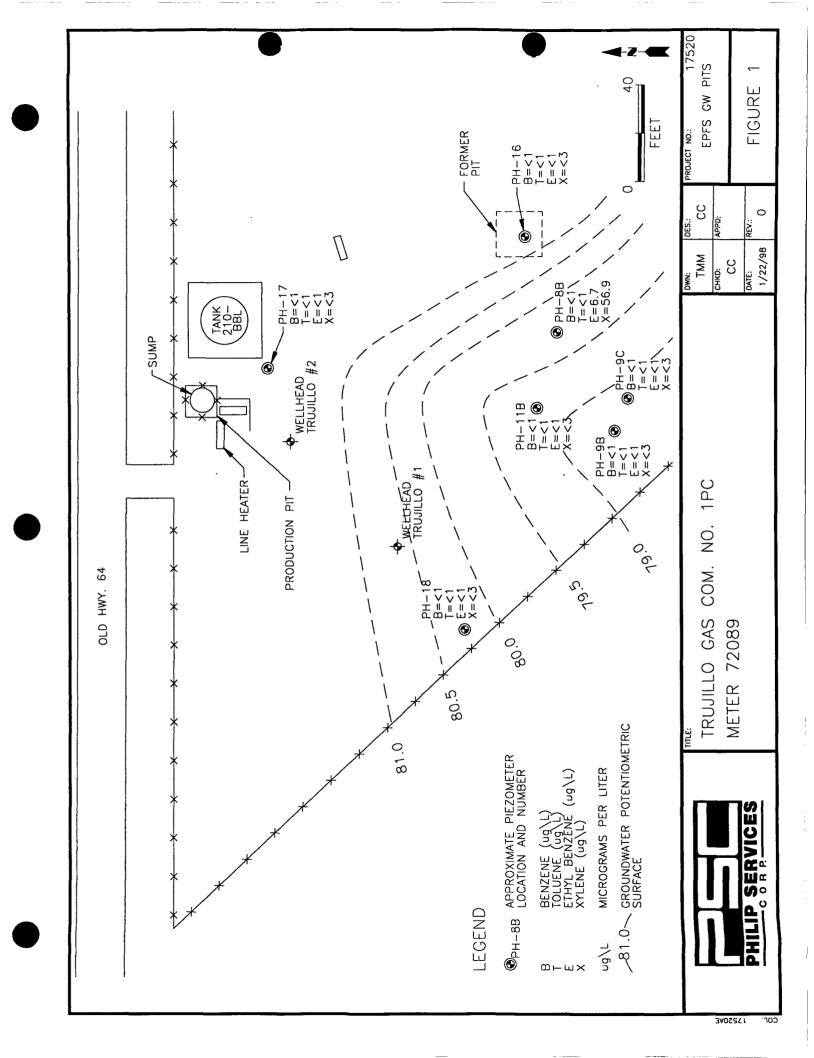
Based on groundwater data collected from temporary piezometers, groundwater flow trends to the south, as presented in Figure 1. Although the groundwater sample collected from the excavation was above standards, it was not indicative of true groundwater conditions, due to the fact it was collected from an excavation and not a monitoring well (the sample was likely biased due to a high silt content).

Approximately 1,060 cubic yards of soil have been excavated from this pit, and the majority of the source material has been removed.

Groundwater samples collected from PH-16, which is located in the center of the former pit, was below standards for BTEX. All groundwater samples collected from this site have been well below standards for BTEX.

RECOMMENDATIONS

• EPFS requests closure at this site.



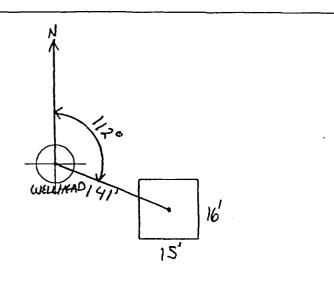
FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 72089 Location: TRUSTILO GAS COM #1 PC Operator #: 0203 Operator Name: Amoco P/L District: Bloomfrelo Coordinates: Letter: M. Section 21 Township: 29 Range: 10 Or Latitude Longitude Pit Type: Dehydrator Location Drip: X Line Drip: Other: Site Assessment Date: 10.2.95 Area: 10 Run: 12						
	NMOCD Zone: (From NMOCD Maps) Land Type: State ☐ (2) Mops) Outside (1) Fee ☒ (3) Indian						
	Depth to Groundwater Less Than 50 Feet (20 points)						
SITE ASSESSMENT	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) HOUSE WI WELL AND STOCK APPROX. 250 FRESH PIT 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)						
4.	Name of Surface Water Body TREGATION DITCH (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: 60 POINTS						
EMAF 3	Remarks: REPLINE & TOPO SHOW LOCATION INSIDE V.Z. THERE IS ONLY ONE PIT ON THIS LOCATION. IT IS A LOCATION DRIP PIT AND BELONGS						
EN	TO EPNG. PIT IS IN A PRIVATE OWNERS PASTURE. THERE IS VEGETATION						

ORIGINAL PIT LOCATION

Original Pit: a) Degrees from North 112° Footage from Wellhead 141'

b) Length : 16 Width : 15 Depth : 2'



R	emarks	:

PHOTOS-0819

REMARKS

Completed By:

Lord Champson

10.2.95

PHASE I EXCAVATION

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 72089 Location: Trujillo 6-3 com #1 P Coordinates: Letter: M Section 21 Township: 29 Range: 10 Or Latitude Longitude Date Started: 10-2-95 Run: 10 12
ELD OBSERVATIONS	Sample Number(s): MK 477 MK 480 MK 481 MK 482 MK 483 Sample Depth: 6 Feet Final PID Reading L183 PPM PID Reading Depth 6 Feet Yes No Groundwater Encountered Approximate Depth 5 Feet
CLOSURE	Remediation Method: Excavation Onsite Bioremediation Backfill Pit Without Excavation Soil Disposition: Envirotech Other Facility Name: Pit Closure Date: 10-9-95 Pit Closed By: 10-10-9
MARKS	Remarks: Oug sample Hole Hit water all suit fle were from Took ON 10-5-95 Except were with was Taken ON 10-2-95 S-Wgll 37 PPM E-Wall-71PPM Bottom-355. Test Hole 40' From Hole 4 PPM W-Vall 566 PPM N-Wall-27 PPM Signature of Specialist:

Page ___

_	phone
	☐ EI Ferson Natural Gas Company

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

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

CHAIN OF CUSTODY RECORD

Page_

æ		S			REQUE	REQUESTED ANALYSIS	ALYSIS		CONTRACT LABORATORY P. O. NUMBER
# 24324 Pit Closure Project		IEB BEI		-	-				
ature)	DATE:	MUN J	AMPLE TYPE			UIA		ENCE	
DATE TIME MATRIX	FIELD ID	ATOT OO 40		19T 4 A93	3 A 9 3	84J		# seone	REMARKS
947568 10.2.401515 MK 477	177	4	12/	×	~			61971	Toutille 645 com # / 72089
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DATE/TIME DATE/TIME	RECEIVED BY: (Signature)	ature)			REZINOUISHED BY: (Signature)	ED BY: (Si	nature)		DATE/TIME RECEIVED OF LABORATORY BY: (Signature)
REQUESTED TURNAROUND TIME:	SAMPLE RECEIPT REMARKS	MARKS					RESU	RESULTS & INVOICES TO:	FIELD SERVICES LABORATORY
САРПЕР СО.									P. O. BOX 4990
9ורר אס:	CHARGE : ODE						305-6	505-599-2144	FAHMING I ON, NEW MEXICO 8/499 FAX: 505-599-2261



FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT - Water

SAMPLE IDENTIFICATION

SAMPLE NUMBER:

947568

FIELD ID:

MK477

MTR CODE:

72089

SAMPLE DATE:

10-02-95

SAMPLE TYPE:

W [Exc]

SITE NAME:

Truillo Gas Com #1

PROJECT:

Phase I Excavation

DATE OF BTEX ANALYSIS:

10/3/95

FIELD COMMENTS:

TPH & BTEX Requested

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT	QUALIFIER	WQCC LIMIT PPB
TDS - TOTAL DISSOLVED SOLIDS (PPM)	NA		None
BENZENE (PPB)	7000	(XIEC)	10
TOLUENE (PPB)	L 25C	D (x/cc)	740
ETHYL BENZENE (PPB)	701	D (x100)	750
TOTAL XYLENES (PPB)	8710	D (x100)	620
SURROGATE % RECOVERY	96%	Allowed Ran 80 to 120 ^c	_

NOTES:



PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

_	Field ID	Lab ID
SAMPLE NUMBER:	MK478	947584
MTR CODE SITE NAME:	72089	Trujillo Gas Com#1 PC
SAMPLE DATE TIME (Hrs):	10-05-95	
PROJECT:	Phase I	
DATE OF TPH EXT. ANAL.:	10/5/25	
DATE OF BTEX EXT. ANAL.:	10/6/95	10/6/95
TYPE DESCRIPTION:	VG	

eld Remarks:	South	WAIL		 	 	

Field Remarks:

PARAMETER	RESULT	UNITS		QUALIFI	ERS	
			DF	a	M(g)	V(ml)
BENZENE	4 0.5	MG/KG				
TOLUENE	< 0.5	MG/KG				
ETHYL BENZENE	1.0	MG/KG				
TOTAL XYLENES	8.7	MG/KG				
TOTAL BTEX	9.7	MG/KG				
TPH (418.1)	137	MG/KG			215	27
HEADSPACE PID	377	PPM				
PERCENT SOLIDS	81.7	%				

RESULTS

The Surrogate Recovery was at Narrative:	101%	•	All QA/QC was acceptable.	
DF = Dilution Factor Used				
Approved By: Solut	ala		Date: 10-9-95	



PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

_	Field ID	Lab ID
SAMPLE NUMBER:	MK 479	947585
MTR CODE SITE NAME:	72089	Trujillo Gas Com#1 PC
SAMPLE DATE TIME (Hrs):	10-05-95	
PROJECT:	Phase I	
DATE OF TPH EXT. ANAL.:	10/6/95	
DATE OF BTEX EXT. ANAL.:	10/6/95	10/6/95
TYPE DESCRIPTION:	VG	

Field Remarks: <u>East WALL</u>

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	a	M(g)	V(ml)
BENZENE	< 0.5	MG/KG				
TOLUENE	< 0.5	MG/KG				
ETHYL BENZENE	< 0.5	MG/KG				
TOTAL XYLENES	< 1.5	MG/KG				
TOTAL BTEX	< 3	MG/KG				
TPH (418.1)	<10	MG/KG			204	25
HEADSPACE PID	7/	PPM				
PERCENT SOLIDS	83.7	%				_

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020
| O | 70 | for this sample All QA/QC was acceptable.

Narrative:		tor this sample F	All QA/QC	was acceptable.	
DF = Dilution Factor Used	Pap			0.6	
A	J WOOL	D	ate: //	5-9-95	



PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

_	Field ID	Lab ID
SAMPLE NUMBER:	MK 480	947586
MTR CODE SITE NAME:	72089	Trujillo (jas Com#1 PC
SAMPLE DATE TIME (Hrs):	10-05-95	
PROJECT:	Phase I	
DATE OF TPH EXT. ANAL.:	10/6/95	
DATE OF BTEX EXT. ANAL.:	10/6/95	10/6/95
TYPE DESCRIPTION:	VG	

Field Remarks: Test Hale From Edge of Pit

RESULTS

PARAMETER	RESULT	T UNITS QUALIFIERS				
			DF	Q	M (g)	V(ml)
BENZENE	< 0.5	MG/KG				
TOLUENE	< 0.5	MG/KG				
ETHYL BENZENE	< 0.5	MG/KG				
TOTAL XYLENES	< 1.5	MG/KG				
TOTAL BTEX	(3	MG/KG				
TPH (418.1)	< 10	MG/KG			1.94	25
HEADSPACE PID	4	PPM				
PERCENT SOLIDS	851	%				

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --The Surrogate Recovery was at for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor Used	
Amound Av. I Man Halde	Date: $10 - 9 - 95$



PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

_	Field ID	Lab ID
SAMPLE NUMBER:	MK 481	947581
MTR CODE SITE NAME:	72089	Trujillo Gas Com#1 PC
SAMPLE DATE ! TIME (Hrs):	10-05-95	
PROJECT:	Phase I	
DATE OF TPH EXT. ANAL.:	10-6-95	
DATE OF BTEX EXT. ANAL.:	10/6/95	10/6/95
TYPE DESCRIPTION:	VG	

Field Remarks: West WALL

RESULTS

PARAMETER	RESULT UNITS		QUALIFIERS			
		<u> </u>	DF	Q	M (g)	V(ml)
BENZENE	< 0.5	MG/KG				
TOLUENE	< 0.5	MG/KG				
ETHYL BENZENE	2.4	MG/KG				
TOTAL XYLENES	7.8	MG/KG				
TOTAL BTEX	10.2	MG/KG		!		
TPH (418.1)	369	MG/KG			211	37
HEADSPACE PID	566	PPM				
PERCENT SOLIDS	84.3	%				

10-9-98

Date:

The Surrogate Recovery was at Narrative:		All QA/QC was acceptable.	
DF = Dilution Factor Used	0		
Amendad Rus	Las	Date: 15-9-95	



PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

_	Field 1D	Lab ID
SAMPLE NUMBER:	MK 482	947588
MTR CODE SITE NAME:	72089	Trujillo Gas Com#1 PC
SAMPLE DATE TIME (Hrs):	10-05-95	
PROJECT:	Phase I	
DATE OF TPH EXT. ANAL.:	10/0/25	
DATE OF BTEX EXT. ANAL.:	10/6/95	10/6/95
TYPE DESCRIPTION:	VG	

Field Remarks: North WALL

Narrative:

RESULTS

PARAMETER	RESULT	UNITS		QUALIFI	ERS	
			DF	α	M(g)	V(ml)
BENZENE	< 0.5	MG/KG				
TOLUENE	2 0.5	MG/KG				
ETHYL BENZENE	< 0.5	MG/KG				
TOTAL XYLENES	4 1.5	MG/KG				
TOTAL BTEX	4 3	MG/KG				
TPH (418.1)	~10	MG/KG			1,11	ジシ
HEADSPACE PID	28	PPM				
PERCENT SOLIDS	86.8	%	4, 5, 5,			

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 --The Surrogate Recovery was at for this sample All QA/QC was acceptable.

DF = Dilution Factor Used				
	P . Ω		16 9-95	
Approved By:	habah	Date:	10-7-75	



PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

SAMPLE IDENTIFICATION

_	Field ID	Lab ID
SAMPLE NUMBER:	MK483	947589
MTR CODE SITE NAME:	72089	Trujillo Gas Com#1 PC
SAMPLE DATE TIME (Hrs):	10-05-95	
PROJECT:	Phase I	
DATE OF TPH EXT. ANAL.:	10/6/95	
DATE OF BTEX EXT. ANAL.:	10/6/95	10/6/95
TYPE DESCRIPTION:	VG	

Field	Remarks:	Bottom
, ,,,,	TICITION AS.	70,1010

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS				
			DF	Q	M(g)	V(ml)	
BENZENE	۷ 0.5	MG/KG					
TOLUENE	< 0.5	MG/KG					
ETHYL BENZENE	1.2	MG/KG					
TOTAL XYLENES	< 1.5	MG/KG					
TOTAL BTEX	1.2	MG/KG					
TPH (418.1)	3640	MG/KG			210	23	
HEADSPACE PID	359	PPM					
PERCENT SOLIDS	84.1	%	gat en '.				

-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 -
9 90 for this sample All QA/QC was acceptable.

DF = Dilution Factor Used	

Approved By: ______alu tall

The Surrogate Recovery was at

Narrative:

Date: 10-9-95



FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Water

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	947861
FIELD ID:	Truillo -08B [KBG]
MTR CODE:	72089
SAMPLE DATE:	12/15/95
SAMPLE TYPE:	ω
SITE NAME:	Trujillo Gas Com No. 1PC PH-08.
PROJECT:	Recon
OF BTEX ANALYSIS:	12/18/95

FIELD COMMENTS:

In probability on the managers.

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT	QUALIFIER	WQCC LIMIT PPB
TDS - TOTAL DISSOLVED SOLIDS (PPM)	N/A	N/A	None
BENZENE (PPB)	< 12.5) (x5)	10
TOLUENE (PPB)	212.5	D (x5)	740
ETHYL BENZENE (PPB)	86.6	(x10)	750
TOTAL XYLENES (PPB)	752	D, X.3 (x10)	620
SURROGATE % RECOVERY	98/114	Allowed Ran 80 to 120	

NOTES: Identification and quantification of peaks is complicated by matrix interference, esp. xylenes, mh

PIEZOMETERS

C El Pass Natural Gas Company

2328

CHAIN OF CUSTODY RECORD

Tropect Name	Type Requested Analysis	
(Southern		
19/7/7	Upluya Policy Po	Remarks
Date Time Comp.	Contain-	(2015) (2014) PC 72089
18 7/17/6/ 1310 WA+1/ CMC193	PZ	
76 JW J 988 1	N X V	
(1335)	8b-2d X	
1345	26-2d X	
. 1359 CMC 19	91-28 X 1	
	1 X X X - 17	
99 (M) 198	V X X V	
861)W) BL - 14//L	X X X X X	Co Block
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	7/1/92 1575 FAX: 326-235 C	
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		Locatio	n No						W AT	ER S	AN	/IPLII	NG DAT
ENVIRUNM	BYLIALS	Serial No	. WSD-							Gr	oup l	ist Nom	ber
Sample Typi	e: Ø	Groundw	ater [] Surfa	ce Wa	ter E	J Otl	ner				Date	1/17/96
Project Nam	e_ <u>Ε</u> β	FS P	iTS_					····		Р	roject	t No	6297
Project Man	ager/	M. Ne	20			^				Þ	hase.	Task No	
Site Name _	Try) عللنر	عود (Som	1#	15		79	1089		· ····		
Requested Develor	Sampling nterval (Wait Fol oment/Pu	g (eet) lowing urging (ho	ours)	NA		Tin Init	ne El tial V		om Final oth (feet)	ent (Des	cribe)		(hours) <u>//</u> /
Nater Qu	anty/vv	I	T	<u> </u>		<u>-</u>		1		DO = Diss	olved	Oxygen; C	Notes
Date	Time	Sampler Initials	Wa	ater C	ility R	eadings	5		Water C	ollection	Data		(Explain in Commi Below)
			Temp	pH	DO	- 1	ond	Volume Removed	Removal	Pump Intake	Bait	Final	
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Filter Type								Chain-ol		PZ- PZ- PZ- Trip (96 16 17 18 31an	C /*	MC/96 1 MC/97 MC/98 MC/99 1
Filter Type Commen	ts <u>PZ ~</u>	98 4	PZ-9C	regui	ced r	equire		Chain-ol	rate bo	PZ- PZ- PZ- Trip (9C 16 17 18 3lan	Cr Cr Cr K Cr K Cr	MC/96! MC/97 MC/98 MC/99! MC/99!
Filter Type Commen	ts <u>PZ~</u> 	9B 4	PZ-9(-pirzo	regui . Alsi	cel c	eguira	d +	Chain-ol	cate bo dissol	PZ- PZ- PZ- Trip (Form N ils for	9C 1b 17 18 3lan	(1° (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	16/95 13 MC/96 1 MC/97 MC/99 MC/99 MC/99
Filter Type Commen	ts <u>PZ</u> -	9B 4	PZ-9(pirzo	requi . Als, y dif	ced c Sap	eguire Prare	d +	Chain-ol	cate bo dissol	PZ- PZ- PZ- Trip (Form N ils form PZ-18	9C 1b 17 18 3lan	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	MC/96 1 MC/97 MC/98 MC/99 MC/99



SAMPLE IDENTIFICATION

EPFS SAMPLE ID:	960618
SAMPLE NUMBER:	PZ-08B
SITE NAME:	Trujillo Gas Com#1PC 72089
SAMPLE DATE:	07/17/96
SAMPLE TIME (Hrs):	1310
SAMPLED BY:	C. Chance
DATE OF BTEX. ANALYSIS:	07/22/96
SAMPLE TYPE:	Water

REMARKS:				 ·	
	EPA Method	8020	(BTEX) RESULTS		

PARAMETER	RESULT PPB	QUALIFIER
BENZENE	<1.0	
TOLUENE	<1.0	
ETHYL BENZENE	6.7	
TOTAL XYLENES	56.9	
SURROGATE % RECOVERY	97.4	Allowed Range 80 to 120 %

OTES:



SAMPLE IDENTIFICATION

960619 EPFS SAMPLE ID: **PZ-11B** SAMPLE NUMBER: Trujillo Gas Com#1PC 72089 SITE NAME: 07/17/96 SAMPLE DATE: 1320 SAMPLE TIME (Hrs): C. Chance SAMPLED BY: 07/22/96 DATE OF BTEX ANALYSIS: Water SAMPLE TYPE:

REMARKS:

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER
BENZENE	<1.0	
TOLUENE	<1.0	
ETHYL BENZENE	<1.0	
TOTAL XYLENES	<3.0	
SURROGATE % RECOVERY	93.3	Allowed Range 80 to 120 %

PTES:



SAMPLE IDENTIFICATION

960620 EPFS SAMPLE ID: PZ-9B SAMPLE NUMBER: Trujillo Gas Com#1PC 72089 SITE NAME: 07/17/96 SAMPLE DATE: 1335 SAMPLE TIME (Hrs): C. Chance SAMPLED BY: 07/22/96 DATE OF BTEX ANALYSIS: Water SAMPLE TYPE:

REMARKS:

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER
BENZENE	<1.0	
TOLUENE	<1.0	
ETHYL BENZENE	<1.0	
TOTAL XYLENES	< 3.0	
		Allowed Range
SURROGATE % RECOVERY	93.9	80 to 120 %

OTES:



SAMPLE IDENTIFICATION

EPFS SAMPLE ID:	960621
SAMPLE NUMBER:	PZ-9C
SITE NAME:	Trujillo Gas Com#1PC 72089
SAMPLE DATE:	07/17/96
SAMPLE TIME (Hrs):	1345
SAMPLED BY:	C. Chance
DATE OF BTEX ANALYSIS:	07/22/96
SAMPLE TYPE:	Water

REMARKS:

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER
BENZENE	<1.0	
TOLUENE	<1.0	
ETHYL BENZENE	<1.0	
TOTAL XYLENES	<3.0	
		Allowed Range
SURROGATE % RECOVERY	94.4	80 to 120 %

DTES:



SAMPLE IDENTIFICATION

960622 EPFS SAMPLE ID: PZ-16 SAMPLE NUMBER: Trujillo Gas Com#1PC 72089 SITE NAME: 07/17/96 SAMPLE DATE: 1359 SAMPLE TIME (Hrs): C. Chance SAMPLED BY: 07/22/96 DATE OF BTEX ANALYSIS: Water SAMPLE TYPE:

REMARKS:

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER
BENZENE	1.35	
TOLUENE	<1.0	
ETHYL BENZENE	<1.0	
TOTAL XYLENES	<3.0	
SURROGATE % RECOVERY	94.2	Allowed Range 80 to 120 %

PTES:



SAMPLE IDENTIFICATION

EPFS SAMPLE ID:	960623
SAMPLE NUMBER:	PZ-17
SITE NAME:	Trujillo Gas Com#1PC 72089
SAMPLE DATE:	07/17/96
SAMPLE TIME (Hrs):	1412
SAMPLED BY:	C. Chance
DATE OF BTEX ANALYSIS:	07/22/96
SAMPLE TYPE:	Water

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER
BENZENE	<1.0	
TOLUENE	<1.0	
ETHYL BENZENE	<1.0	
TOTAL XYLENES	< 3.0	
		Allowed Range
SURROGATE % RECOVERY	93.4	80 to 120 %

DTES:



SAMPLE IDENTIFICATION

EPFS SAMPLE ID:	960624
SAMPLE NUMBER:	PZ-18
SITE NAME:	Trujillo Gas Com#1PC 72089
SAMPLE DATE:	07/17/96
SAMPLE TIME (Hrs):	1425
SAMPLED BY:	C. Chance
DATE OF BTEX ANALYSIS:	07/23/96
SAMPLE TYPE:	Water

REMARKS:

EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER
BENZENE	<1.0	
TOLUENE	<1.0	
ETHYL BENZENE	<1.0	
TOTAL XYLENES	<3.0	
		Allowed Range
SURROGATE % RECOVERY	92.0	80 to 120 %

NOTES:

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SAMPLE IDENTIFICATION

Trip Blank EPFS SAMPLE ID: 7/17/96 Trip Blank SAMPLE NUMBER: Trujillo Gas Com#1PC 72089 SITE NAME: 07/17/96 SAMPLE DATE: NA SAMPLE TIME (Hrs): SAMPLED BY: C. Chance DATE OF BTEX ANALYSIS: 07/22/96 Water SAMPLE TYPE:

REMARKS:					

PARAMETER	RESULT PPB	QUALIFIER
BENZENE	<1.0	
TOLUENE	<1.0	
ETHYL BENZENE	<1.0	
TOTAL XYLENES	<3.0	
SURROGATE % RECOVERY	98.7	Allowed Range 80 to 120 %

EPA Method 8020 (BTEX) RESULTS

OTES:



QUALITY CONTROL REPORT EPA METHOD 8020 - BTEX

s 360618 thru 960623, 960625, 960628, and 960630 thru 960632

QA/QC for 07/23/96 Sample Set

BORATORY CALIBRATION CHECKS,	1 3 JRY CO	NTROL SAMPLE	S:				
SAMPLE		EXPECTED	ANALYTICAL			ACCEPTAB	LE
NUMBER	4 P \$	RESULT	RESULT	%R			
ICV LA-62589		PPB	PPB			YES	NO
50 PPB					RANGE		
Benzene	ndard	50.0	46.2	92.4	75 - 125 %	X	
Toluene	ndard	50.0	45.9	91.8	75 - 125 %	X	
Ethyl benzene	adard	50.0	45.9	91.8	75 - 1 <i>2</i> 5 %	Х	
m & p - Xylene	-nca rd	100	93.2	93.2	75 - 125 %	Χ	
o - Xylene	₃ndard	50.0	45.8	91.6	75 - 125 %	Х	
SAMPLE		EXPECTED	ANALYTICAL				 -
NUMBER	YPE	RESULT	RESULT	%R		ACCEP*	TABLE
LCS LA-45476		РРВ	PPB			YES	NO
25 PPB					RANGE		
Benzene	₃ndard	25.0	22.1	88.4	39 - 150	X	
Toluene	₃ndærd	25.0	22.5	90.0	46 - 148	Х	
Ethyl benzene	andard	25.0	22.7	90.8	32 - 160	Х	
m & p - Xylene	breone	50.0	46.3	92.6	Not Given	Х	
o - Xylene	3 noard	25.0	27.3	91.2	Not Given	X	
SAMPLE		EXPECTED	ANALYTICAL	1		ACCEPTAL	BLE
NUMBER	YIE	RESULT	RESULT	%R			
CCV1 LA-52589		РРВ	PPB	ļ		YES	NO
50 PPB			_		RANGE		
Benzene	ar ::ard	50.0	47.6	95.2	75 - 125 %	X	
Toluene	andard	50.0	47.4	94.8	75 - 125 %	Х	
Ethyl benzene	ancard	50.0	47.1	94.2	75 - 125 %	Х	
m & p - Xylene	anr ard	100	94.6	94.6	75 - 125 %	Х	
o - Xylene	'ar .ard	50.0	47.1	94.2	75 - 125 %	Х	
SAMPLE	. 20 00	EXPECTED	ANALYTICAL			ACCEPTA	BLE
NUMBER	₽ PE	RESULT	RESULT	%R			
CCV2 LA-52589		PPB	PPB			YES	NO
50 PPB					RANGE		
Benzene	antard	50.0	49.5	99.0	75 - 125 %	X	====
Toluene	з: ard	50.0	49.3	98.6	75 - 125 %	Х	
Ethyl benzene	₃ ∵ard	50.0	49.1	98.2	75 - 125 %	X	
m & p - Xylene	3 ard	100	İ	98.3	75 - 125 %	Х	
o - Xylene	ansard	50.0	1	98.2	75 - 125 %	Х	
SAMPLE		EXPECTED	ANALYTICAL	Ì		ACCEPTA	BLE
NUMBER	TV PE	RESULT	RESULT	%R			
CCV3 LA-52589		РРВ	PPB			YES	ИО
50 PPB					RANGE		
Benzene	tandard	50.0	48.5	97.0	+	X	
Toluene	'a. tard	50.0	j .	96.2	1	Х	
Ethyl benzene	ta Jard	50.0	1	1	1	Х	
m & p - Xylene	tantard	100	1	1	1	Х	
· Vidano	: -mlard	50.0	1	1	Į.	X	

QUALITY CONTROL REPORT EPA METHOD 8020 - BTEX

Samples: 960618 thru 960623, 960625, 960628, and 960630 thru 960632

QA/QC for 07/23/96 Sample Set

LABORATORY DUPLICATES:

SAMPLE NUMBER 960619	туре	SAMPLE RESULT PPB	DUPLICATE RESULT PPB	RPD	RANGE	ACCEPTABLE YES NO
Benzene	Matrix Duplicate	<1.0	<1.0	. 0	+/- 20 %	X
Toluene	Matrix Duplicate	<1.0	<1.0	0	+/- 20 %	X
Ethyl benzene	Matrix Duplicate	<1.0	<1.0	0	+/- 20 %	x
m & p - Xylene	Matrix Duplicate	<2.0	<2.0	0	+/- 20 %	x
o - Xylene	Matrix Duplicate	<1.0	<1.0	0	+/- 20 %	X

Narrative: Acceptable.

LABORATORY DUPLICATES:

SAMPLE		SAMPLE	550	ACCEPTABLE			
NUMBER 960628	TYPE	RESULT PPB	RESULT PPB	RPD	RANGE	YES	NO
Benzene	Matrix Duplicate	35.0	34.8	1	+/- 20 %	X	
Toluene	Matrix Duplicate	<1.0	<1.0	0	+/- 20 %	Х	
Ethyl benzene	Matrix Duplicate	<1.0	<1.0	0	+/- 20 %	Х	
m & p - Xylene	Matrix Duplicate	17.8	17.7	1	+1- 20 %	Х	
o - Xylene	Matrix Duplicate	<1.0	<1.0	0	+/- 20 %	Х	

Narrative: Acceptable.

LABORATORY SPIKES:

SAMPLE NUMBER 960619	SPIKE ADDED PPB	SAMPLE RESULT PPB	SPIKE SAMPLE RESULT PPB	% R	RANGE	ACCEPTABLE YES NO	
Benzene	50.0	<1.0	48.6	97.2	75 - 125 %	X	\Box
Toluene	50.0	<1.0	49.7	99.4	75 - 125 %	X	
Ethyl benzene	50.0	<1.0	48.2	96.4	75 - 125 %	X	
m & p - Xylene	100.0	<2.0	97.4	97.4	75 - 125 %	X	
o - Xylene	50.0	<1.0	48.7	97.4	75 - 125 %	X	

Narrative: Acceptable.

LABORATORY SPIKES:

SAMPLE NUMBER	SPIKE ADDED: PPB	SAMPLE RESULT: PPB	SPIKE SAMPLE RESULT	%R	· · · · · · · · · · · · · · · · · · ·	ACCEP YES	TABLE NO
960628			PPB		RANGE	<u> </u>	
Benzene	50.0	35.0	82.8	95.6	75 - 125 %	Х	
Toluene	50.0	<1.0	48.7	97.4	75 - 125 %	X	
Ethyl benzene	50.0	<1.0	47.5	95.0	75 - 125 %	Х	
m & p - Xylene	100.0	17.8	112	93.8	75 - 125 %	X	
o - Xylene	50.0	<1.0	47.2	94.4	75 - 125 %	Х	

Narrative: Acceptable.

QUALITY CONTROL REPORT EPA METHOD 8020 - BTEX

Samples: 960618 thru 960623, 960625, 960628, and 960630 thru 960632

QA/QC for 07/23/96 Sample Set

ADDITIONAL ANALYTICAL BLANKS:

SAMPLE ID AUTO BLANK/BOILED WATER	SOURCE	899	STATUS
Benzene	Boiled Water	<1.0	ACCEPTABLE
Toluene	Boiled Water	<1.0	ACCEPTABLE
Ethyl benzene	Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

SAMPLE ID SOIL VIAL BLANK	SOURCE Lat MB1461	РРВ	STATUS
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE
Ethyl benzene	Vial + Boiled Water	<1.0	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<3.0	ACCEPTABLE

Narrative: Acceptable.

	SOURCE	NARRATIVE	STATUS	
Carryover contamination checks	<u>.</u>	(Two analyzed with this set)	:	
Benzene	Vial + Boiled Water	<1.0	ACCEPTABLE	
Toluene	Vial + Boiled Water	<1.0	ACCEPTABLE	
Ethyl benzene	Vial + Boiled Water	<1.0	ACCEPTABLE	
Total Xylenes	Vial + Boiled Water	⊴.0	ACCEPTABLE	

Narrative: Acceptable.

SAMPLE ID TRIP BLANK	SOURCE Lot # H18318	PPB (Three analyzed with this set)	STATUS
Benzene	Vial + Boiled Water	<2.5	ACCEPTABLE
Toluene	Vial + Boiled Water	<2.5	ACCEPTABLE
Ethyl benzene	Vial + Boiled Water	<2.5	ACCEPTABLE
Total Xylenes	Vial + Boiled Water	<7.5	ACCEPTABLE

Narrative: Acceptable.

ported By: (M)