3R - <u>189</u>

# REPORTS

DATE:

July 1996

August 20, 1996

Mr. Bill Olson New Mexico Oil Conservation Division 2040 South Pacheco Street Santa Fe, New Mexico 87505

RECEIVED

AUG 2 0 1996

Environmental Bureau
Oil Conservation Division

**RE:** Production Pit Closure Submittal

Dear Mr. Olson:

Enclosed herein are data packages for work completed at El Paso Field Services (EPFS) production pit locations where shallow groundwater was encountered during closure operations. The data included within indicate that these sites merit closure per the New Mexico Oil Conservation Division's (NMOCD) Vulnerable Area Orders and EPFS's closure plan submitted to the NMOCD. In front of each data package is a site specific checklist that indicates the work completed at each location. Each checklist is followed by a short summary of the activities and results of data collected to support closure.

Sincerely,

El Paso Field Services

Sandra Miller

Senior Environmental Manager

Sandre O Mille

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### SAN JUAN BASIN PIT CLOSURES San Juan Basin, New Mexico

Pit Closure Report

**July 1996** 

**Prepared For** 

El Paso Field Services Farmington, New Mexico

**Project 16297** 



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## Closure Checklist

Meter Code	75336	
Summary Site Map Site Assessment Sheet		र्यार्थ
Phase I Excavation closure form soil analytical results soil chain-of-custody groundwater analytical results groundwater chain-of-custody bills of lading	<u>yes</u>	ह्या
Phase II Soil Boring boring log soil analytical results soil chain-of-custody well installation form development form groundwater analytical groundwater chain-of-custody	<u> 405</u>	কৈবিবিবিধি
Phase III Excavation closure form soil analytical results soil chain-of-custody groundwater analytical groundwater chain of-custody bills of lading	<u>No</u>	
Recon performed groundwater analytical soil-gas analytical	<u>No</u>	

If item boxes are not checked they are not applicable



Environmental Services Group Southern Region

#### Hammond Federal No. 5 Meter Code 75336

Pit was excavated to 12 feet beneath ground surface. Headspace soil readings from excavation bottom were 710 parts per million. Soil analytical from a composite sample was as follows; benzene - < 1 mg/kg, total BTEX - 106 mg/kg, TPH - 270 mg/kg.

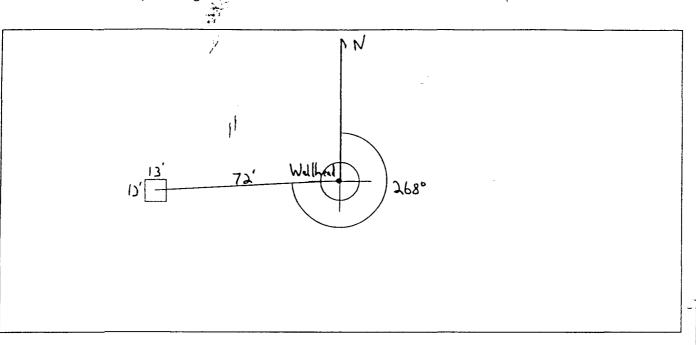
One soil boring was completed and a monitoring well installed. Soil boring analytical results were as follows; benzene - 2 mg/kg, total BTEX - 12 mg/kg, TPH - 146 mg/kg. Groundwater was encountered at 44.4 feet. Initial groundwater analytical were as follows; benzene - 2.9 ug/L, toluene - 54.9 ug/L, ethylbenzene - 19.4 ug/L, xylenes - 239 ug/L. Second groundwater analytical were as follows; benzene - 2 ug/L, toluene - <1.0 ug/L, ethylbenzene - 46.6 ug/L, xylenes - 80 ug/l.

### FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 75336 Location: HAMMOND Fed No.5  Operator #: 0286 Operator Name: Comoco P/L District: Blanco  Coordinates: Letter: D Section 25 Township: 27 Range: 8  Or Latitude Longitude  Pit Type: Dehydrator Location Drip: \( \sqrt{Line Drip: Other:  Site Assessment Date: \( \sqrt{3/34/94} \) Area: \( \sqrt{13} \) Run: \( \sqrt{3} \)
REMAR <sup>V.</sup>	NMOCD Zone:    Land Type: BLM
RE	DIGHAUL



Original Pit : a) Degrees from North  $\frac{\lambda 68^{\circ}}{13'}$  Footage from Wellhead  $\frac{72'}{2}$  b) Length :  $\frac{13'}{2}$  Width :  $\frac{13'}{2}$  Depth :  $\frac{\lambda'}{2}$ 



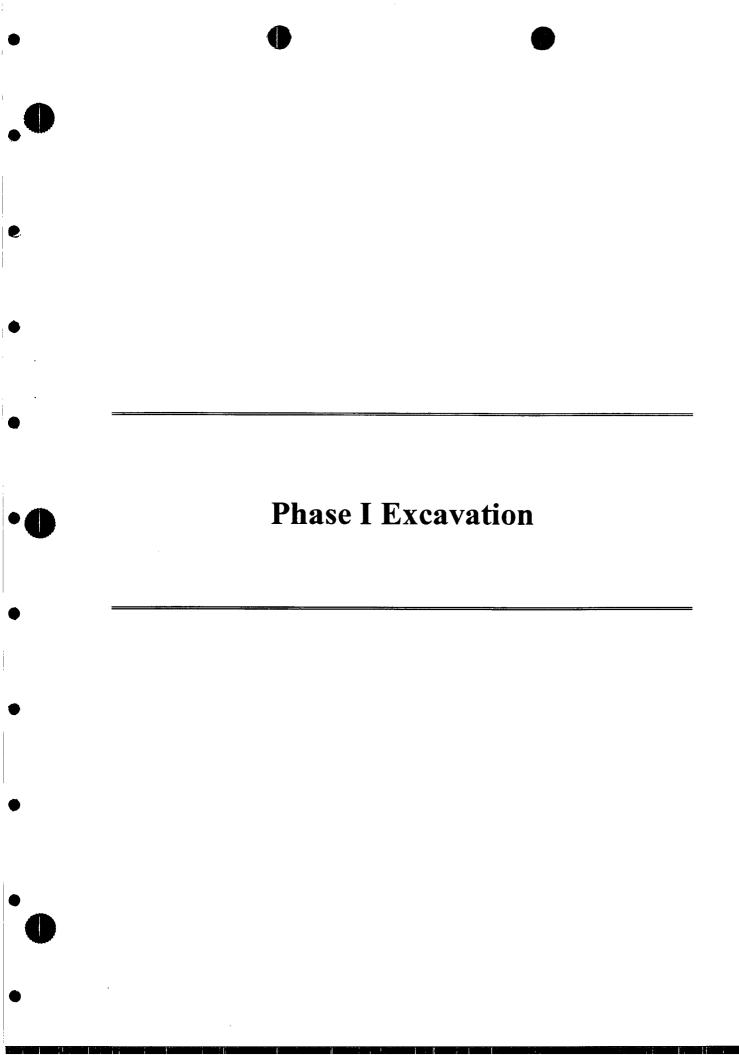
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Completed By:

Signature

5/24/94

. Date



# FI. D PIT REMEDIATION/CLOL RE FORM

	GENERAL	Meter: 75336 Location: HAMMOND FED No S  Coordinates: Letter: D Section 25 Township: 27 Range: 8  Or Latitude Longitude  Date Started: 6-6-94 Area: 13 Run: 31
	FIELD OBSERVATIONS	Sample Number(s): $12'$ Feet  Sample Depth: $12'$ Feet  Final PID Reading $7/0$ PID Reading Depth $12'$ Feet  Yes No  Groundwater Encountered $\square$ (1) $\square$ (2) Approximate Depth $\square$ Feet
	CLOSURE	Remediation Method:  Excavation  Onsite Bioremediation  Backfill Pit Without Excavation  Soil Disposition:  Envirotech  Other Facility  Pit Closure Date: 6-6-94  Pit Closed By: B.E.T.
0	REMARKS	Remarks: Some Line MARKERS ON LOCATION SMAll PIT SHARTHON Remediations TO 12' SOIL TURNED BLACK SMellis BAD
		Signature of Specialist: Kelly Politia

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# FIELD SERVICES LABORATORY ANALYTICAL REPORT

### PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

#### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	KP84	945360
MTR CODE   SITE NAME:	75336	Hammond Federal #5
SAMPLE DATE   TIME (Hrs):	06/06/94	1102
PROJECT:	Ph	nase I
PROJECT: DATE OF TPH EXT.   ANAL.:	Pt 06/07/94	nase I 06/07/94

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### **RESULTS**

PARAMETER	RESULT	UNITS		QUALIFIE	RS	
			DF	Q	M(g)	V(ml)
BENZENE	< 0.62	MG/KG	25			
TOLUENE	< 0.62	MG/KG	25			,
ETHYL BENZENE	5.2	MG/KG	25			
TOTAL XYLENES	100	MG/KG	25			
TOTAL BTEX	106	MG/KG				
TPH (418.1)	270	MG/KG			2.06	28
HEADSPACE PID	710	PPM				
PERCENT SOLIDS	90.0	%		1, 52, 737, 73 11, 12, 13, 13, 13, 13, 13, 13, 13, 13, 13, 13		

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

		•			
e Surrogate Red rrative:	covery was at _	348	% for this sample	All QA/QC was acceptable.	
	alyses. Surrogate re	covery was	outside ATI QC limits	due to matrix interference.	
DF = Dilution Fac	tor Used				<u></u>
Approved By:	John La	st di		Date: 7/18/91	



CHAIN OF LUSTODY RECORD

RECEIVED OF LABORATORY BY: (Signature) FIELD SERVICES LABORATORY EL PASO NATURAL GAS COMPANY P. O. BOX 4990 FARMINGTON, NEW MEXICO 87499 FAX: 505-599-2261 RECEIVED BY: (Signature) REMARKS CONTRACT LABORATORY P. O. NUMBER DATE/TIME RESULTS & INVOICES TO: 505-599-2144 REQUESTED ANALYSIS RELINQUISHED BY: (Signature) RELINQUISHED BY: (Signature) Seq 29 X3T8 6208 A93 Н**ЧТ** 1.814 АЧЗ SAMPLE TYPE SAMPLE RECEIPT REMARKS TOTAL NUMBER OF CONTAINERS DATE/TIME 334 RECEIVED BY: (Signature) RECEIVED BY: (Signature) CHARGE CODE SAMPLE NUMBER PROJECT NAME
PIT Closure Project # 24324 78A0 0081 66.9. MATRIX 30.1 Ţ Ŗ 70<u>1</u> TIME REQUESTED TURNAROUND TIME: O RUSH SAMPLERS: (Signature) DATE PROJECT NUMBER O ROUTINE CARRIER CO LABID BILL NO.:

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YES XXXIO. FURNISHED BY CARRIER VERS SIGNATURE:	NO - FURI	₽ _	PLACARDS SUPPLIED	N/A	SOS	This is to cently that the above-named materials are properly classified described, packaged marked and PLACAFIDS above and are in proper condition for transportation accoming to the appropriate regulations of the FLACAFIDS above and are in proper condition for transportation of tr	This is to certify labeled and are Department of Tr
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Zip	7	2			Origin	lon 2lp	Destination
		37499	X 4990 TON, NM	P.O. BOX 4990 FARMINGTON, N	Shipper	909 W. APACHE FARMINGTON, NM 87401	Consignee
24324	COMPANY	GAS	EL PASO NATURAL	EL PASC	FROM:	TIERRA ENVIRONMENTAL CORP.	
-6-94	Date 6		Carrier's No.		SCAC	ER: DOUG FOUTZ CONSTRUCTION CO. INC.	CARRIER:
			0	( 1		OHIGINAL - NOT NEGOTIABLE	C
			Shipper's No	Shipp		STRAIGHT BILL OF LADING	STR

9-BLS-B3 (RE

**Phase II Soil Boring** 

#### RECORD OF SUBSURFACE EXPLORATION

#### PHILIP ENVIRONMENTAL

100 Monroe Road mington, New Mexico 87401 (506) 326-2262 FAX (506) 326-2388

Elevation

Borehole Location QD - Sas -7 27 - R8

GWL Depth 42 Bbs

Logged By CM CHANCE

Drilled By K Padilla

Date/Time Started 8/29/95 - 1250

Date/Time Completed 8/10/95 1150

Borehole # BH-1

Well #

Page / of 2

 Project Name
 EPNG PITS

 Project Number
 14509
 Phase 6000 77

 Project Location
 Hammend
 Fed. No. 5 75334

Well Logged By
Personnel On-Site
Contractors On-Site
Client Personnel On-Site

Driffing Method 4 1/4" ID HSA
Air Monitoring Method PID, CGI

Į				Sample			Depth				
- [	Depth	Sample	Sample	Түре &	Sample Description	uscs	Lithology	A	ir Monita	ring	Drilling Conditions
- 1	(Feet)	Number	Interval	Recovery	Classification System: USCS	Symbol	Change	Units	: PPM	<u>s</u>	& Blow Counts
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Comments.	 	 
	<u> </u>	 
	Geologist Signature	

#### RECORD OF SUBSURFACE EXPLORATION

THILLIP	ENVIRONME	VTAL.	

000 Monroe Road mington, New Mexico 87401

(606) 326-2262 FAX (605) 326-2388

Elevation

Borehole Location QD-SAS-T37-R8

GWL Depth

Logged By CM CHANCE

Drilled By K Padilla

Date/Time Started 8/24/95-1250

Date/Time Completed 8/30/95 - 1150

Borehole #	BH-1
Well #	
Page	of 2

Project Name EPNG PITS

Project Number 14509 Phase 6000 77

Project Location Hamman F. I. No. 5 75316

Well Logged By
Personnel On-Site

CM Chance

K Padilla, F. Rivera, D. Charlin

Contractors On-Site

Client Personnel On-Site

Drilling Method 4 1/4" ID HSA
Air Monitoring Method PID, CGI

	Depth (Feet)	Sample Number	Sample Interval	Sample Type & Recovery	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change	i	r Monitor : PPM	ring <u>S</u>	Drilling Conditions & Blow Counts
	40	Ь	40-42	(inches)			(feet)	ВZ	вн	нѕ	
					BI silry SAND VF Frank danse, sl moist			D	۱۵۲	<u>354</u> 994	-USD -GW@44.4'B65
	<u></u> 45	7	45-46	ర <sup>'</sup> '	off wh SAND, f-medsand, med dense, saturated			D	170	<u>O</u> VA	-GW@44.4'B65 -1404 8/29/95
	50				T0850'						Overnight - Khard Irln.
ļ	)-  -				, 2030				į		
	5 <sub>5</sub>										
	#30										
	<b>&amp;</b> 5										
	70										
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Linments: Grov-Rwater @444' BGS. Sample CM(98(40-42') Sent to lab (BTEX,TPH). Sample hauged lived prior to containerization. Will Brill to 54.5' w/ 8/4 1.D auge-s.
Refusal Q Sp' BBS. Set well Q Sp' BGS

Geologist Signature

Cong Change



# FIELD SERVICES LABORATORY ANALYTICAL REPORT

PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	CMC98	947359
MTR CODE   SITE NAME:	75336	Hammond Federal #5
SAMPLE DATE   TIME (Hrs):	08/29/95	1350
PROJECT:	Pha	se II Drilling
DATE OF TPH EXT.   ANAL.:	08/30/95	09/06/95
DATE OF BTEX EXT.   ANAL.:	08/30/95	09/05/95
TYPE   DESCRIPTION:	VG	Light brown sand & sandstone

Field	Remarks:	

#### **RESULTS**

PARAMETER	RESULT	UNITS	÷	QUALIF	HERS	
			DF	<b>Q</b>	M(g)	V(ml)
BENZENE	<2	MG/KG	4	D		
TOLUENE	<2	MG/KG	4	D		
ETHYL BENZENE	<2	MG/KG	4	D		
TOTAL XYLENES	<6	MG/KG	4	D		
TOTAL BTEX	<12	MG/KG	4	D		
TPH (418.1)	146	MG/KG			2.12	28
HEADSPACE PID	994	PPM				
PERCENT SOLIDS	92.1	%		i.		

	TPH is by EPA Me	thod 418.1 and BTEX is by EPA M	ethod 8020	
rrative:	92	% for this sample	All QA/QC was acceptable.	
DF = Dilution Factor Used				
Approved By: John Failer	Ju		Date: 7/18/94	

DE ESCOMPANY MARK DIME

CHAIN OF CUSTODY RECORD

Page\_

PROJECT NUMBER # 24324	PROJECT NAME Pit Closure Project		88 88		REQUI	REQUESTED ANALYSIS	YSIS	ΙσΊ	CONTRACT LABORATORY P. O. NUMBER	). NUMBER
SAMPLERS: (Signature)		DATE: 8/29/15	AL NUMBI ONTRINE: SAMPLE BAYTE	H:	8020 EX	alq	PID	FACE		
LABID	DATE TIME MATRIX	, FIELD ID		ηТ • АЧЭ	Т8 А9Э	847	2	L # Ino∃s		REMARKS
_	8/29/18 0909/5016	7 N/C 94	1 16	/			7	8%	, 4-51	Oxnald WN Fold N. 5348
	1010 1	CM(95	1 16	7	7		0	2	74-51	Macro No 79 71790
	) 0011	INC 96	1 16	/	7		7	90	Sagged AICED	Marrey # 95 974
	$\rightarrow$	CM 97	7/ 1	>	7		30,00	7-	Sowodd Icell	Feder, 1E# 5 90709
	Spy 100 OSCHANINGS	CNC98	1 16	>	\		994	9	Gassed JICod	Hammer of Fed W. 5 75376
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DROUTINE DRUSH	USH CONTRACTOR OF THE CONTRACT	SAMPLE HECEIPI HEMAHKS	EMAHKS				RESULT	RESULTS & INVOICES TO:	ESTO: FIELD SERV	FIELD SERVICES LABORATORY
CAHRIER CO.									EL PASO NA P. O. BOX 49	EL PASO NATURAL GAS COMPANY P. O. BOX 4990
BILL NO		CHARGE CODE					505-599-2144	.2144	FARMINGTO	ON, NEW MEXICO P7499  FAX: 505-5
10000					 					,

#### MONITORING WELL INSTALLATION RECORD

Philip Environmental Services Corp.

4000 Monroe Road

Ferminaton, New Mexico 87401

(606) 326-2262 FAX (606) 326-2368

Elevation	
Well Location	(20 -S25-T27-R8
GWL Depth	
Installed By K.P.	1;)
Date/Time Started	8/30/95-1210
Date/Time Complete	0 EII-78/16/8

Borehole # BH-I Well # MW-I Page of
Project Name EPNG PITS
Project Number 14509 Phase 6001.77 Project Location Hampon Fee No. 5 75306
On-Site Geologist CM Chance F. River, J. Jaharan Contractors On-Site
Client Personnel On-Site

Depths in Reference to Ground S	Surface			$\exists$	Top of Protective Casing Top of Riser	<u>NA</u> +3
Item	Material	Depth			Ground Surface	0'
Top of Protective Casing		NA				
Bottom of Protective Casing Top of Permanent Borehole		NA				
Casing		NA				
Bottom of Permanent Borehole Casing		NA				
Top of Concrete		NA				
Bottom of Concrete		NA				
Top of Grout	7 - 94# Type I-I	D'				
Bottom of Grout	-25-SOH Bonders	29.5'				
Top of Well Riser	37.5 4" dia Sch40	+3′				
Bottom of Well Riser	Flush Thread PVC	34.5'				
Top of Well Screen	15 '4" dia SCH40 FlushThread	J4.5'			Top of Seal	<u>29.5'</u>
Bottom of Well Screen	7012 10.0 )V9	49.5'	XXX	$\infty \infty$		
Top of Peltonite Seal		29.5'	000	XX		71 F'
Bottom of Peltonite Seal	Bentonite	315	)   	××	Top of Gravel Pack	31.5'
Top of Gravel Pack	12-50# 10-20	31.5'			Top of Screen	34.5
Bottom of Gravel Pack	SilicaSand	49.5'				
Top of Natural Cave-In		495				
Bottom of Natural Cave-In		50'				
Top of Groundwater		42'			Bottom of Screen	49.5%
Total Depth of Borehole		50'			Bottom of Borehole	_30

Comments: Added / Sal paralle vater while dilling t ~ 25 gal while install, well Total 40 gal.

Bantonire hydrated u/ 5 and parable vater Lacking well cap & padlack placed on well

GW had no odor or visible contamination

Geologist Signature

Com Clare

#### December & TRANSPORTED TO KUTE SCPULLE 1 Seculto Serial No. (If applicable) ō 6003. 1450 Page Phase.Task No. **E**Conductivity Meter A Temperature Meter Project No. Water Disposal Well Number ☐ DO Monitor P PH Meter Instruments Other | Development Purging Gallons to be Removed 445 Project Manager Cory Chance 3.75 Gravel Pack Height of Water Column in Well (feet) Initial Depth to Water (feet) 45,03 Well Development and Purging Data Water Volume in Well Gallons 7 Water Volume Calculation Initial Depth of Well (feet) Site Address Cubic Feet Diameter (inches): Well Total **Drilling Fluids** Gravel Pack Well Casing Item ☐ Double Check Valve ☐ Stainless-steel Kemmerer 127 251 TEV (273 to 5 Casing Volumes of Water Removal Catabilization of Indicator Parameters Cather @ Bottom Valve Serial No. WDPD. Project Name 6 Pus P.73 Methods of Development Client Company <u>ECP2 so</u> Site Name // +mmend Development Criteria □ Centrifugal□ Submersible□ Peristaltic PHILIP INVIRONMENTAL Other

	_	1000000			, Louison	× × ×	Water Volume Removed	Produce Valume	/v)				0.500	
		Method		Ę	Water Depth		(soulled)	Removed (gellons)	gellons)	Temperature		Conductivity	Oxygen .	
Date	Time	Pump Bailer	י נספונשוטו	(100)	(leet)	Increment	Cumulative	Increment Comulative	umulative	, F.	PH	A/OBO	(mg/L)	Comments
28 7150	0/9)	8		,		(5	1.5			62.1	7,32	2.3/		Br 2,674
-	059/					5	20			62.2	7,33 5.14	5.14		130,4200
	1655					۲	23			61,9	7. 33-	4,01		24.400mg
1 8 1 2V	8720	× A				) \( \sigma'_1\)	(34.12)			5'19	7.36 4.45	1445		CTB12 5,CTY BOILE OF
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WATTER for well TO Relieved XX 8 Wiles diretain 2521125 X Xx 134162 DEV WIR 1.55 81110 Comments BALLA diy after do sallen WAITED , BOX SAMIL 45 he

Date

Reviewer

Date 02/255

Form A0101 Rev. 03/21/94

Developer's Signature(s)

ENVIRONMEN	P	W	Vat	er	Sa	mpl	in	g I	)at	ta				1	Locat	ion N	10. <u>~</u>	V-1
	<del></del>	S	erial No	. <u>ws</u>	٥-										Grou	up Lis	t Numbe	er
Sample Ty	pe:	Æ	Groun	ndwa	ter	□ Surfa	ce \	Vater		Oth	er				<del></del>	_	Date _	05-12-55
Project Na	me	Ep,	15_2	775	· 									_ Pr	roject	No.	1450 9	-
Project Ma	nager	<u>C</u>	ory c	LAS.	ررو								<del>-</del>	_ Pf	nase.	Task	No	600 3 . 77
Site Name	_HA	mm	محط	£	<u> </u>	#_5	_	7533	6)									
Reques	ted S. Interited W	ampl val (f /ait F	ing feet) ollow	78 ing	r 3′	v- ~—			Time Initia	e Ela <sub>l</sub>	ater De	rom epth	Final (feet)	45	603		rurging (	Mind Hours) 15
Water Q	uality	//Wa	ater (	Colle	ection	ì								DO =	= Diss	olved (	Dxγgen; C	ond. = Conduct
					V	Vater Qu	alit	y Reac	lings			N	/ater (	Colle	ction	Data		
Date	Tin	1e	Sam Initi		Temp (°C)	4		DO (mg/L)	(µm	nd. ihos/ m)	Volu Remo (gallo	ved	Remor Rate (gal/m	val 1	Pump ntake Depth (feet)	Bail	Final Water Depth (feet)	Notes (Explain in Comments Beld
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Sample C	onta	iner	S									-					(Glass);	O ≔ Other (Spec None
Analytic	al				ntainer			Fie Filte	ld			Co	oled rring ection					
Parameter		Nu	mber	Т	үре	Volume (	mL)	Yes	No	Pre	served	<u> </u>	No				Comment	s
BTEX		2	<u> </u>	A		40			مر	1		x		36	4	19	T 17	35
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### FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT - Water

#### SAMPLE IDENTIFICATION

**SAMPLE NUMBER:** 

947449

FIELD ID:

JAL19

MTR CODE:

75336

**SAMPLE DATE:** 

9/12/95

**SAMPLE TYPE:** 

Monitor Well

SITE NAME:

Hammond Fed #5

**PROJECT:** 

Phase II MW

TE OF BTEX ANALYSIS:

14-Sep-95

**FIELD COMMENTS:** 

#### EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT	QUALIFIER	WQCC LIMIT PPB
TDS - TOTAL DISSOLVED SOLIDS (PPM)	2092		None
BENZENE (PPB)	2.9		10
TOLUENE (PPB)	54.9		740
ETHYL BENZENE (PPB)	19.4		750
TOTAL XYLENES (PPB)	239		620
		Allowed Rang	e
SURROGATE % RECOVERY	99	80 to 120 %	)

John Larden

9-15=95

CHAIN OF CUSTODY RECORD

Page\_\_

PROJECT NUMBER # 24324	PROJECT NAME Pit Closure Project	ure F	roject		SH3		ي.	REQU	ESTED /	REQUESTED ANALYSIS		CONTRACT LABORATORY P. O. NUMBER
SAMPLERS: (Signature)				DATE:	BMUN BNIATI	avec 391	r.8	50	aı	_	CE	
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ZB ID		TIME	MATRIX	FIELD ID	TO.		T Aq3	18 843	ΓΑΕ	<u>a</u> 1	SEOL	REMARKS
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	05.11 150		WATER	L1-7×S	8	3		$\times$	/\	×	=2	1/2
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ĮĮ.	INAROUND TIME:			SAMPLE RECEIPT REMARKS	Т ВЕМАВК:	(n				RESI	RESULTS & INVOICES TO:	FIELD SERVICES LABORATORY
CARRIER CO.												EL PASO NATURAL GAS COMPANY P. O. BOX 4990
BILL NO.:				CHARGE CODE						505-	505-599-2144	FARMINGTON, NEW MEXICO 87499
												. > 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7



# FIELD SERVICES LABORATORY ANALYTICAL REPORT

#### SAMPLE IDENTIFICATION

960190 SAMPLE NUMBER: Blanco Pipeline SITE NAME: Hammond Federal #5 SAMPLE SITE: MW-1 02/22/96 SAMPLE DATE: 1054 SAMPLE TIME (Hrs): D. Bird SAMPLED 7 /: 02/23/96 DATE OF BTEX ANALYSIS: SAMPLE TYPE: Water

HHIC. Code: 75 336

JL 3/1496

REMARKS:

#### EPA Method 8020 (BTEX) RESULTS

PARAMETER	RESULT PPB	QUALIFIER	WQCC LIMIT PPB
BENZENE	2.0		10
TOLUENE	<1.0		740
ETHYL BENZENE	46.6		750
TOTAL XYLENES	80.3		620
		Allowed Ran	ge
SURROGATE % RECOVERY	98.9	80 to 120 °	%

Dans 2 - 71. - 91.



# **MEMORANDUM**

3/14/96

John Lambdin

Date: March 4, 1996

From: Dennis Bird

360141

Place: Laboratory Services

Subject: Blanco Pipeline Pit Monitor Wells

On Thursday, February 22, 1996, Richard Benson and myself went to Blanco Pipeline and sampled the following pit monitor wells. The following analytical parameters are to be performed on these groundwater samples: BTXE, General Chemistry, Nitrate as NO3-N. Metals As, Ba, Cd, Cr, Hg, Se, Ag, Pb. and Dissolved Oxygen. The samples were assigned the laboratory numbers 960190 and 960191. The samples for metals were filtered v. .1 a 0.45 micron filter in the field at the time of sampling. The dissolved oxygen results were taken at the time of sampling with a ChemMets Kit. The Field Service Laboratory will be performing all of the analysis.

The following information was collected on each weil.

Monitor	Pipe	Static	Total	Gallons	Dissoived	فتمع له، ,
Well#	ID	Levei	Depth	Bailed	Oxygen	
Hammond Fed. #5	4"	45.07'	53.55°	12.8	L5 ppm	94425
Federal R #2	4"	33.15'	42.80°	20.0	L0 ppm	

All bailing and sampling was done with disposable, one time use equipment and bottles. All samples were preserved on ice immediately after collection. The static level and total depth was measured from the top of the pipe.

Should you have any question or comments, please let me know.

Dennis P. Bird Chief Technician

cc: Nancy Prince Ann Allen Sandra Miller



#### **EL PASO FIELD SERVICES**

Field Services Laboratory Water Analysis Report

LOCATION: Blanco Pipeline

PROJECT: M.W.

DATE OF REPORT:

2/28/96

**SAVE FILE:** 960190

SAMPLED BY: Dennis Bird & Richard Benson

\*\*All Results By Standard Methods (AWWA) Or EPA Method 300\*\*

**All_Results I	y Standard	Mechods	(Anna	OL EPA ME	3004 -	
SAMPLE	Hammond					New Mexico
POINT	Federal #5		1			WQCC
	MW-1				·	LIMIT
LAB ID #	960190					
Date Of Samp	22-Feb-96					
pH (Units)	7.08					6 - 9
ALKALINITY AS CO3	0					None
ALKALINITY AS RCO3	735					None
CALCIUM AS Ca	161					None
MAGNESIUM AS Mg	18					None
TOTA HARDNESS AS CaCO3	476	ł	1			None
CHLORIDE AS C1	56					250
SULFATE AS SO4	1537					600 *
FLUORIDE AS F	2.58					1.6
POTASSIUM AS K	6					None
ODIUM AS Na	811					None
TOTAL DISSOLVED SOLIDS	2920					1000 *
CONDUCTIVITY (umhos)	3810					None
NITRATE AS NO3-N	<0.1					10
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\*\*All Results Expressed as ppm or umhos\*\*

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Fluoride results were with the HACH DR/2000 using the spadns fluoride reagents.

*	Ιt	is	not	unusual	for	shallow	groundwater	in	New	Mexico	to	naturally	exceed	these
	lim	ait	s <b>.</b>											
3)	pro	va.	ls:											

Lab	Super.:	John Labely	Date:	3/14/94	
				<del></del>	



# FIELD SERVICES LABORATORY ANALYTICAL REPORT

#### SAMPLE IDENTIFICATION

SAMPLE NUMBER:
LOCATION:
SAMPLE DATE:
SAMPLE TIME (Hrs):
SAMPLED BY:
SAMPLE POINT:

Hammond Fed #5

**REMARKS:** 

#### **RESULTS**

	PARAMETER	DISSOLVED RESULT (mg/L)	TOTAL RESULT (mg/L)	N. M. WQCC LIMIT (mg/L)
	ARSENIC	0.010	0.017	0.10
	BARIUM	0.07	0.26	1.00
lı .	CADMIUM	< 0.0005	< 0.0005	0.01
	CHROMIUM	0.008	0.019	0.05
	LEAD	0.005	0.020	0.05
	MERCURY	0.0001	0.0002	0.002
	SELENIUM	< 0.005	< 0.005	0.05
	SILVER	0.0006	0.0012	0.05

NOTE: The sample results have been corrected for volume adjustment associated with Method 3015.

#### References:

Method 3015, Microwave Assisted Acid Digestion of Aqueous Samples and Extracts, Test Methods for Evaluating Solid Waste, SW-846, Sept., 1994.

Method 7061A, Arsenic (Atomic Absorption, Gaseous Hydride), Test Methods for Evaluating Solid Waste, SW-846. USEPA, July, 1992.

Method 7081, Barium (Atomic Absorption, Furnace Technique), Test Methods for Evaluating Solid Waste, SW-846, USEPA, July, 1992.

Method 7131, Cadmium (Atomic Absorption, Furnace Technique), Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept, 1986.

Method 7191, Chromium (Atomic Absorption, Furnace Technique), Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept, 1986.

Method 7421, Lead (Atomic Absorption, Furnace Technique), Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept, 1986.

Method 245.5, Mercury (Automated Cold Vapor Technique), Methods for the Determination of Metals in Environmental Samples, EPA600/4-91/010,

USEPA, June, 1991.

\*hod 7741A, Selenium (Atomic Absorption, Gaseous Hydride), Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept, 1994.

dd 7761, Silver (Atomic Absorption, Furnace Technique), Test Methods for Evaluating Solid Waste, SW-846, USEPA, July, 1992.

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	CO PARCIONS	Date Receiving Temp (*f)	Sample N	06/056	77 77 77 77 77 77 77 77 77 77 77 77 77						:	Date/Time Received by (Signature)	1 (N) 1/2 (N)		 Date/Time   Received for Laboratory by		_	
	roject No. Project Name	Samplers: (Signature)	ate Time Matrix	1201 1054	27.26 1465 "MER							(elinquished by. (Signature)	Lemen Birol	lelinquished by: (Signature)	Relinquished by. (Signature)		Results & Invaices to.:	· Artiful