

3R - 178

REPORTS

DATE:

July 1997



November 5, 1997

Certified Mail

**Return Receipt Nos. P 532 649 088
P 532 649 089**

RECEIVED

NOV 11 1997

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

Environmental Bureau
Oil Conservation Division

Re: Request for Closure of Eleven Groundwater Locations

Dear Mr. Olson:

I have enclosed closure packages for eleven groundwater locations that were identified during our pit closure project. El Paso Field Services (EPFS) hereby requests your review and approval for closure of these sites.

I have included a summary listing of the eleven locations. If you have any questions regarding this information, please call me at 505/599-2141.

Sincerely,

A handwritten signature in cursive script that reads 'Sandra D. Miller'.

Sandra D. Miller
Environmental Manager

xc: Mr. Bill Liesse, BLM w/o enclosures
Mr. Denny Foust, NMOCD - Aztec w/enclosures

Groundwater Locations
Request for Closure, 11/97

Meter/Line #	Location/Line Name	LTR	Sec	TN	RG	Land Type
74943	NM COM G1	P	36	30	10	1 - State
LD102	2C-22 #1 LINE DRIP	N	35	24	06	2 - Federal
94180	SALAZAR G 34-1	K	34	25	06	2 - Federal
89230	JOHNSTON FEDERAL #3A	I	12	30	09	2 - Federal
73079	Mae Gail Com #1	E	24	29	11	4 - Fee
70862	MCGRATH #1	F	07	30	11	4 - Fee
93156	MARY ACKROYD #1	J	18	30	11	4 - Fee
93828	JACQUEZ #3	E	25	30	09	4 - Fee
94984	ANDERSON GAS COM A#1 PC	C	28	29	10	4 - Fee
93296	GALLEGOS CANYON UNIT 188E	B	30	29	12	4 - Fee
93462	GALLEGOS CANYON UT 145 E	D	26	29	12	4 - Fee

} Filed
individually
in
case files

SAN JUAN BASIN PIT CLOSURES
San Juan Basin, New Mexico

Pit Closure Report

July 1997

RECEIVED

NOV 11 1997

Environmental Bureau
Oil Conservation Division

Prepared For

El Paso Field Services
Farmington, New Mexico

Project 17520

PHILIP
ENVIRONMENTAL

Closure Checklist

Meter Code

93296

Summary
Site Map
Site Assessment Sheet

☒
☒
☒

Phase I Excavation

Y

closure form
soil analytical results
soil chain-of-custody
groundwater analytical results
groundwater chain-of-custody

☒
☒
☐
☒
☒

Phase II Soil Boring

Y

boring log
soil analytical results
soil chain-of-custody
well installation form
development form
groundwater analytical
groundwater chain-of-custody

☒
☐
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☐
☒
☒
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☒

Phase III Excavation

closure form
soil analytical results
soil chain-of-custody
groundwater analytical
groundwater chain of-custody

☐
☐
☐
☐
☐

Recon/Geoprobe

groundwater analytical
soil-gas analytical

☐
☐

If item boxes are not checked they are not applicable



Environmental Services Group
Southern Region

Gallegos Canyon Unit #188 E
Meter Code 93296

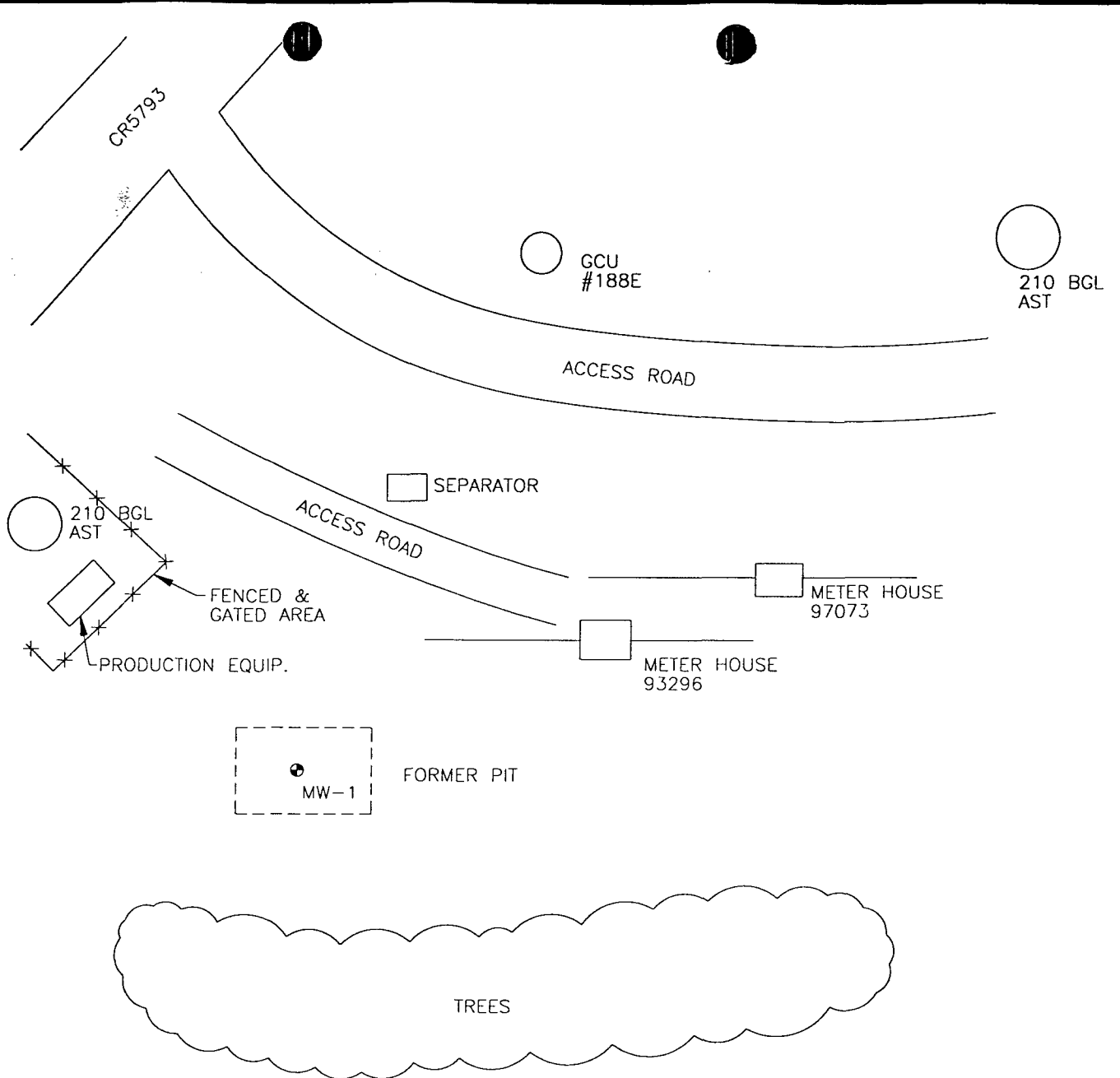
Pit was excavated to 4 feet beneath ground surface. The headspace soil reading from excavation bottom was 89 parts per million. Soil analytical were as follows; benzene - <0.03 mg/kg, total BTEX - 0.12 mg/kg, TPH - <10 mg/kg.

One soil boring was completed and a groundwater monitoring well was installed. No soil sample was collected due to encountering groundwater. Groundwater analytical results were as follows: benzene - <1 ppb, toluene - <1 ppb, ethyl benzene - <1 ppb, total xylenes - <3 ppb.

This site is ready for closure based on the following:

- Soil boring analytical were below standards.
- Monitoring well groundwater samples were below standards.





LEGEND


 MW-1 APPROXIMATE WELL LOCATION AND NUMBER

NOT TO SCALE



COL. 175201-001



TITLE:
 GALLEGOS CANYON
 UNIT# 188E-93296

DWN:	DES.:
TMM	CC
CHKD:	APPD:
CC	
DATE:	REV.:
7/15/97	0

PROJECT NO.:	17520
EPFS GW PITS	
FIGURE 1	

FIELD PIT SITE ASSESSMENT FORM

GENERAL

Meter: 93296 Location: GALLEGOS CANYON UNIT #188E
 Operator #: 0203 Operator Name: AMOCO P/L District: KUTZ
 Coordinates: Letter: B Section 30 Township: 29 Range: 12
 Or Latitude _____ Longitude _____
 Pit Type: Dehydrator ☒ Location Drip: _____ Line Drip: _____ Other: _____
 Site Visit Date: 4.5.94 Run: 02 33

SITE ASSESSMENT

NMOCD Zone: Inside Land Type: BLM ☐
 (From NMOCD Vulnerable State ☐
 Maps) Zone ☒ Fee ☒
 Outside ☐ Indian _____

Depth to Groundwater

Less Than 50 Feet (20 points) ☒
 50 Ft to 99 Ft (10 points) ☐
 Greater Than 100 Ft (0 points) ☐

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? ☐ YES (20 points) ☒ NO (0 points)

Horizontal Distance to Surface Water Body

Less Than 200 Ft (20 points) ☐
 200 Ft to 1000 Ft (10 points) ☒
 Greater Than 1000 Ft (0 points) ☐

Name of Surface Water Body SAN JUAN RIVER

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

TOTAL HAZARD RANKING SCORE: 30 POINTS

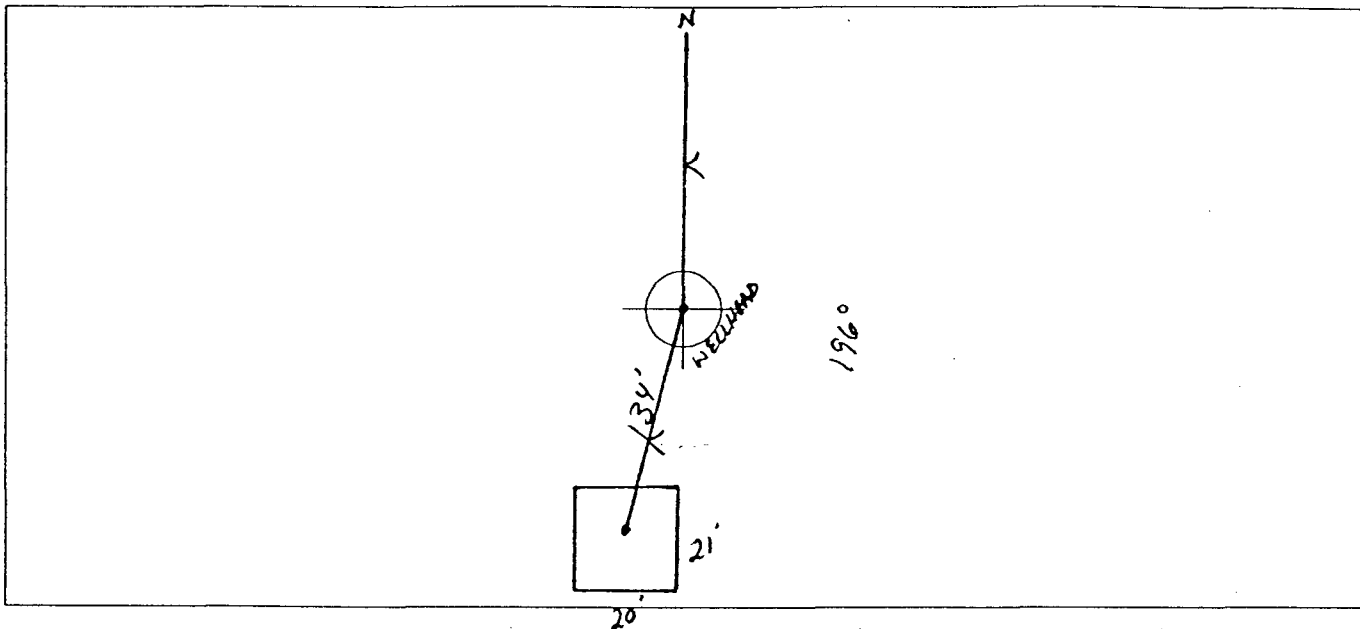
REMARKS

Remarks : ONLY PIT ON LOCATION. PIT IS DRY. LOCATION IS SOUTH OF HWY. 64, NEXT TO THE RIVER.

ORIGINAL PIT LOCATION

ORIGINAL PIT LOCATION

Original Pit : a) Degrees from North 196° Footage to Wellhead 134'
b) Degrees from North _____ Footage to Dogleg _____
Dogleg Name _____
c) Length : 21' Width : 20' Depth : 4'



REMARKS

Remarks :

STARTED TAKING PICTURES AT 12:29 P.M.END DUMP

Completed By:

Robert Thompson
Signature

4.5.94

Date

Phase I Excavation

FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL

Meter: 93296 Location: Gallegos Canyon Unit #188E
 Coordinates: Letter: B Section 30 Township: 29 Range: 12
 Or Latitude _____ Longitude _____
 Date Started : 4-27-94 Area: 02 Run: 33

FIELD OBSERVATIONS

Sample Number(s): VW34
 Sample Depth: 4 Feet
 Final PID Reading 89 PID Reading Depth 4 Feet
 Yes No
 Groundwater Encountered ☒ (1) ☐ (2) Approximate Depth 4 Feet

CLOSURE

Remediation Method :
 Excavation ☒ (1) Approx. Cubic Yards 30
 Onsite Bioremediation ☐ (2)
 Backfill Pit Without Excavation ☐ (3)
 Soil Disposition:
 Envirotech ☐ (1) ☒ (3) Tierra
 Other Facility ☐ (2) Name: _____
 Pit Closure Date: 4-27-94 Pit Closed By: BEI

MARKS

Remarks : Pit was pretty clean on top. 2' hit black soil. 4' hit groundwater. Pulled sample of soil PID-89 at four foot. Pulled water sample. OGD gave permission to close hole. excavated 2' more to the North to get out of contamination. No line markers.

Signature of Specialist: Vick Wilson

**FIELD SERVICES LABORATORY
ANALYTICAL REPORT
PIT CLOSURE PROJECT****SAMPLE IDENTIFICATION**

SAMPLE NUMBER:	Field ID VW34	Lab ID 945022
MTR CODE SITE NAME:	93296	Gallegos Canyon Unit #188E
SAMPLE DATE TIME (Hrs):	4/27/94	820
PROJECT:	Phase I Drilling Excavation	
DATE OF TPH EXT. ANAL.:	4/28/94	4/28/94
DATE OF BTEX EXT. ANAL.:	5/9/94	5/10/94
TYPE DESCRIPTION:	VC	Brown coarse sand

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q	M(g)	V(ml)
BENZENE	<0.03	MG/KG				
TOLUENE	<0.03	MG/KG				
ETHYL BENZENE	0.04	MG/KG				
TOTAL XYLENES	0.08	MG/KG				
TOTAL BTEX	0.12	MG/KG				
TPH (418.1)	<10	MG/KG			2.06	28
HEADSPACE PID	89	PPM				
PERCENT SOLIDS	85.0	%				

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

The Surrogate Recovery was at 140 for this sample All QA/QC was acceptable.

Narrative:

ATI analyzed this sample. Surrogate recovery outside ATI QC limits due to matrix interference

DF = Dilution Factor Used

Approved By: _____

INGVZPIT.XLS

Date: _____

5/21/94

PROJECT NUMBER		PROJECT NAME		PROJECT # 24324		CONTRACT LABORATORY P. O. NUMBER	
SAMPLER (Signature)		DATE		SAMPLE NUMBER		REMARKS	
LABID	DATE	TIME	MATRIX	TOTAL NUMBERS OF CONTAINERS	SAMPLE TYPE	TPH EPA 418.1	BTEX EPA 8020
5022	4/27/04	0820	SOIL	1	VC	X	X
5023	4/27/04	1145	SOIL	1	VC	X	X
5024	4/27/04	1335	SOIL	1	VC	X	X
5025	4/27/04	1540	SOIL	1	VC	X	X
RELINQUISHED BY: (Signature) <i>Vale Wilson</i> RELINQUISHED BY: (Signature) DATE/TIME 34 4/27/04 1611 RECEIVED BY: (Signature) <i>Don T. Pope</i> RECEIVED BY: (Signature) DATE/TIME 320A 4/28/04 0948							
REQUESTED TURNAROUND TIME:				RESULTS & INVOICES TO:			
☐ ROUTINE ☐ RUSH				FIELD SERVICES LABORATORY EL PASO NATURAL GAS COMPANY P. O. BOX 4990 FARMINGTON, NEW MEXICO 87499			
CARRIER CO.				FAX: 505-599-2261			
BILL NO.:				445 509 2144			

Phase II Soil Boring

RECORD OF SUBSURFACE EXPLORATION

PHILIP ENVIRONMENTAL SERVICES INC.

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 326-2388

Borehole # BH- 2

Well # 1

Page 1 of 1

Project Name EPFS GW PITS

Project Number 17520 Phase 600277

Project Location GCU #188E-93296

Elevation _____

Borehole Location T29 R12 S30-Ltr 8'

GWL Depth 6' BGS

Logged By D CESARK

Drilled By K PADILLA

Date/Time Started 3/26/97 - 0830

Date/Time Completed " - 1000

Well Logged By D CESARK

Personnel On-Site D CESARK, C MAIZ

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 (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: PPM			Drilling Conditions & Blow Counts
							BZ	BH	S	
0				BACKFILL						
5				TO 4'						
10				(HIGHLY CONTAM. BLACK SOIL)						
15				GW @ 6' BGS						
20				TD = 13'						
25										
30										
35										
40										

Comments:

ENCOUNTERED GW @ 6' BGS. OVER-DRILLED TO 13' BGS + SET GW MW-1.
NO SAMPLES COLLECTED. PLEASE REFER MON WELL INSTR. RECORD.

Geologist Signature

[Signature]

MONITORING WELL INSTALLATION RECORD

Philip Environmental Services, Inc.

4000 Monroe Rd.

Farmington, NM 87401

(505) 326-2262 FAX (505) 326-2388

Borehole # 2

Well # 1

Page 1 of 1

Project Name

EPFS GW PITS

Project Number

17520

Phase **6005.77**

Site Location

ECU #188E

Elevation

Well Location

T29N-R12W-S30-L1B'

GWL Depth

6' BGS

Installed By

K PADILLA

On-Site Geologist

D CESARK

Personnel On-Site

D CHARLEY, C MAIZ

Contractors On-Site

Client Personnel On-Site

Date/Time Started

3/26/97 - 1000

Date/Time Completed

" - 1100

Depths in Reference to Ground Surface

Item	Material	Depth (feet)
Top of Protective Casing		
Bottom of Protective Casing		
Top of Permanent Borehole Casing		N/A
Bottom of Permanent Borehole Casing		N/A
Top of Concrete		
Bottom of Concrete		
Top of Grout		
Bottom of Grout		
Top of Well Riser	SCH 40 PVC	+3'
Bottom of Well Riser	"	-2'
Top of Well Screen	WID SLOT	-2'
Bottom of Well Screen	"	-12'
Top of Peltonite Seal	ENVIROPLUG	-0.5'
Bottom of Peltonite Seal	"	-1.5'
Top of Gravel Pack	10-20 S. SAND	-1.5'
Bottom of Gravel Pack	"	-12'
Top of Natural Cave-In		-12'
Bottom of Natural Cave-In		-13'
Top of Groundwater		-6'
Total Depth of Borehole		-13'

Top of Protective Casing

Top of Riser

Ground Surface

+3'

-0'

Top of Seal

-0.5'

Top of Gravel Pack

-1.5'

Top of Screen

-2'

Bottom of Screen

-12'

Bottom of Borehole

-13'

Comments:

Geologist Signature

[Handwritten Signature]

Well Development and Purging Data

~~Development~~
~~Purging~~

Well Number MW-1

Serial No. WDPD-

Page 7 of 1

Project Name

GW PITS

Project Manager

C CHANCE

Project No. 17520

Client Company

EPFS

Site Name GCU #188E-93296

Site Address

Development Criteria

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

Methods of Development

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

Water Volume Calculation

Initial Depth of Well (feet) 12'

Initial Depth to Water (feet) 4'

Height of Water Column in Well (feet)

Diameter (inches): Well 4 Gravel Pack

Item	Water Volume in Well		Gallons to be Removed
	Cubic Feet	Gallons	
Well Casing		51.2	
Gravel Pack			
Drilling Fluids			
Total			26

Water Removal Data

[illegible]

Circle the date and time that the development criteria are met.

Comments
1st hauler was clear, muddy thereafter, little int; no evidence of HC, did not trail well day.

Developer's Signature(s)

Date 4/3/97

Reviewer _____ Date _____



Water Sampling Data

Location No. MW-1

Serial No. WSD- _____

Group List Number _____

Sample Type: ☒ Groundwater ☐ Surface Water ☐ Other _____ Date 4/3/97

Project Name EPFS GW PITS Project No. 17520

Project Manager C CHANCE Phase Task No. 0003.77

Site Name GCU #188E - 93296

Sampling Specifications

Requested Sampling
Depth Interval (feet) _____
Requested Wait Following
Development/Purging (hours) _____

Initial Measurements

Time Elapsed From Final Development/Purging (hours) _____
Initial Water Depth (feet) _____
Nonaqueous Liquids Present (Describe) _____

Water Quality/Water Collection

DO = Dissolved Oxygen; Cond. = Conductivity

Date	Time	Sampler Initials	Water Quality Readings				Water Collection Data					Notes (Explain in Comments Below)
			Temp. (°C)	pH	DO (mg/L)	Cond. (µmhos/ cm)	Volume Removed (gallons)	Removal Rate (gal/min)	Pump Intake Depth (feet)	Bail	Final Water Depth (feet)	

Container Type: G = Clear Glass; A = Amber Glass; P = Plastic; V = VOA Vial (Glass); O = Other (Specify)

Sample Containers

Preservatives: H = HCl; N = HNO₃; S = H₂SO₄; A = NaOH; O = Other (Specify); - = None

Analytical Parameter List	Container			Field Filtered		Preserved	Cooled During Collection		Comments
	Number	Type	Volume (mL)	Yes	No		Yes	No	
EPA 8020 BTEX	DRC27	VV	40		X	Y	X		MW-1
"	DRC28	"	"		X		X		TRIP BLANK

Filter Type _____ Chain-of-Custody Form Number _____

Comments * PLEASE REFER TO WELL DEVP. + PURGING DATA FORM

Signature [Signature] Date 4/3/97 Reviewer _____ Date _____



OL PASO FIELD SERVICES



5-22-97

FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

SAMPLE IDENTIFICATION

SAMPLE NUMBER:	Field ID DRC27	Lab ID 970246
MTR CODE SITE NAME:	93296	GCU #188E
SAMPLE DATE TIME (Hrs):	4/3/97	1140
PROJECT:	Phase II Drilling - Initial	
DATE OF BTEX EXT. ANAL.:	4/4/97	4/4/97
TYPE DESCRIPTION:	Monitor Well	Water

Field Remarks: _____

RESULTS

PARAMETER	RESULT	UNITS	QUALIFIERS			
			DF	Q		
BENZENE	< 1	PPB				
TOLUENE	< 1	PPB				
ETHYL BENZENE	< 1	PPB				
TOTAL XYLENES	< 3	PPB				
TOTAL BTEX	< 6	PPB				

The Surrogate Recovery was at 97.6 for this sample All QA/QC was acceptable.
DF = Dilution Factor Used

Narrative:

Approved By: John L. Ladd

Date: 4/8/97

970246, 4/8/97

Page 1 of 1White • Testing Laboratory Canary • EPNG Lab Pink • Field Sampler

**QUALITY CONTROL REPORT
EPA METHOD 8020 - BTEX**

Samples: 970246 - 970248, 970255 - 970258

QA/QC for 04/04/97 Sample S

LABORATORY CALIBRATION CHECKS / LABORATORY CONTROL SAMPLES:

SAMPLE NUMBER ICV LA-52589 50 PPB	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE	
					YES	NO
					RANGE	
Benzene	Standard	50.0	47.2	94.4	75 - 125 %	X
Toluene	Standard	50.0	48.0	96.0	75 - 125 %	X
Ethylbenzene	Standard	50.0	47.9	95.8	75 - 125 %	X
m & p - Xylene	Standard	100	96.9	96.9	75 - 125 %	X
o - Xylene	Standard	50.0	48.1	96.2	75 - 125 %	X
SAMPLE NUMBER LCS LA-45476 25 PPB	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE	
					YES	NO
					RANGE	
Benzene	Standard	25.0	23.2	92.8	39 - 150	X
Toluene	Standard	25.0	23.7	94.8	46 - 148	X
Ethylbenzene	Standard	25.0	23.8	95.2	32 - 160	X
m & p - Xylene	Standard	50.0	48.9	97.8	Not Given	X
o - Xylene	Standard	25.0	24.1	96.4	Not Given	X
SAMPLE NUMBER CCV LA-52589 50 PPB	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE	
					YES	NO
					RANGE	
Benzene	Standard	50.0	47.1	94.2	75 - 125 %	X
Toluene	Standard	50.0	48.1	96.2	75 - 125 %	
Ethylbenzene	Standard	50.0	48.1	96.2	75 - 125 %	X
m & p - Xylene	Standard	100	97.2	97.2	75 - 125 %	X
o - Xylene	Standard	50.0	48.3	96.6	75 - 125 %	X
SAMPLE NUMBER CCV LA-52589 50 PPB	TYPE	EXPECTED RESULT PPB	ANALYTICAL RESULT PPB	%R	ACCEPTABLE	
					YES	NO
					RANGE	
Benzene	Standard	50.0	47.2	94.4	75 - 125 %	X
Toluene	Standard	50.0	48.0	96.0	75 - 125 %	X
Ethylbenzene	Standard	50.0	47.6	95.2	75 - 125 %	X
m & p - Xylene	Standard	100	95.9	95.9	75 - 125 %	X
o - Xylene	Standard	50.0	47.8	95.6	75 - 125 %	X

Narrative: Acceptable.

EL PASO FIELD SERVICES LAB
QUALITY CONTROL REPORT
EPA METHOD 8020 - BTEX
Samples: 970246 - 970248, 970255 - 970258

LABORATORY DUPLICATES:

SAMPLE ID	TYPE	SAMPLE RESULT PPB	DUPLICATE RESULT PPB	RPD	ACCEPTABLE	
					YES	NO
970246					RANGE	
Benzene	Matrix Duplicate	<1	<1	0.00	+/- 20 %	X
Toluene	Matrix Duplicate	<1	<1	0.00	+/- 20 %	X
Ethylbenzene	Matrix Duplicate	<1	<1	0.00	+/- 20 %	X
m & p - Xylene	Matrix Duplicate	<2	<2	0.00	+/- 20 %	X
o - Xylene	Matrix Duplicate	<1	<1	0.00	+/- 20 %	X

Narrative: Acceptable.

LABORATORY SPIKES:

SAMPLE ID	SPIKE ADDED PPB	SAMPLE RESULT PPB	SPIKE SAMPLE RESULT PPB	%R	ACCEPTABLE	
					YES	NO
2nd Analysis 970246					RANGE	
Benzene	50	<1	47.1	94.2	75 - 125 %	X
Toluene	50	<1	48.2	96.4	75 - 125 %	X
Ethylbenzene	50	<1	48.2	96.4	75 - 125 %	X
m & p - Xylene	100	<2	97.5	97.5	75 - 125 %	X
o - Xylene	50	<1	48.3	96.6	75 - 125 %	X

Narrative: Acceptable

ADDITIONAL ANALYTICAL BLANKS:

AUTO BLANK	SOURCE	PPB	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	PPB	STATUS
	Lot MB1461	(Analyzed with this set)	
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	STATUS
		(None analyzed with this set)	
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: *Indu*

Approved By: *[Signature]*

Date: *4/7/97*