# 3R - <u>164</u>

# REPORTS

# **DATE:** 1998



#### Certified Mail: #Z 211 324 121

March 31, 1999

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

. . .

APR 0 5 1999

ENVIRONMENTAL BUREAU OIL CONSERVATION DIVISION

#### **RE: 1998 Pit Project Annual Groundwater Report**

Dear Mr. Olson:

In accordance with reporting requirements, El Paso Field Services (EPFS) has enclosed annual updates for the 49 remaining groundwater impacted locations that were identified during our pit closure project of 1994 / 1995.

Of the 49 reports, EPFS hereby requests closure of 18 of these locations. The 18 sites EPFS is requesting closure on are presented in 4 separate binders entitled "Final Closure Report for Groundwater Sites with Four Consecutive Quarters Below Standards".

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".

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 211 324 122
Mr. Bill Liesse, BLM - w / enclosures; Certified Mail # Z 211 324 123
Ms. Charmaine Tso, Navajo EPA - w / enclosures; Certified Mail # Z 211 324 120

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

# El Paso Field Services Final Closure Report For Groundwater Sites With Four Consecutive Quarters Below Standards

December 1998

**Prepared For** 

# El Paso Field Services Farmington, New Mexico

Project 17520 Book 1



### EPFS GROUNDWATER PITS 1998 ANNUAL GROUNDWATER REPORT

#### **COLDIRON COM A #1**

Meter/Line ID - 73551

#### SITE DETAILS

Legals - Twn: 30NRng: 11WSec: 2NMOCD Hazard Ranking: 40Operator: AMOCO PRODUCTION COMPANY

Unit: K Land Type: FEE

#### **PREVIOUS ACTIVITIES**

Site Assessment: Mar-94 Monitor Well: Oct-95 Excavation: Apr-94 (50 cy) Quarterly Sampling Initiated: Apr-96 Soil Boring: Oct-95

#### **1998 ACTIVITIES**

**Quarterly Groundwater Monitoring** - Quarterly groundwater monitoring continued through 1998. Groundwater analytical data are presented in Table 1. A site map is presented as Figure 1. Quarterly sampling was discontinued the first two quarters of 1998. Quarterly sampling started again in July of 1998.

#### **CONCLUSIONS**

Analytical results of groundwater samples from MW-1 show levels of benzene and total xylenes above New Mexico Groundwater Standards. During the July sampling event, MW-1 contained a 0.09 foot thick layer of phase separated hydrocarbons floating on the groundwater.

Pertinent data from the 1997 groundwater report include the following: Based on groundwater levels collected from temporary well point data, the groundwater flow trends to the northwest on this site. Product has been measured in MW-1 averaging 0.09 feet to 0.24 feet.

One groundwater sample collected up-gradient from MW-1 at PH-2 was in excess of standards for all BTEX components and indicates the production pit up-gradient of MW-1 may be an additional source.

#### **RECOMMENDATIONS**

- EPFS proposes to conduct annual sampling at the site.
- Initiate product removal at MW-1.
- Following removal of product, sample annually until BTEX levels are below New Mexico Groundwater Standards, then sample quarterly for closure.
- EPFS will contact operator and provide pertinent site data regarding EPFS activities at the site.



TABLE 1

,

e

İ

al BTEN	4575	1979	
Tot	11	1	
il Xylencs (PPB)	4250	1780	
Tota	=		
A Benzene (PPB)	172.0	91.2	
Ē	-11		
lucne PPB)	74.0	39.6	
ËŪ	Ш	11	
enzene PPB)	79.6	68.4	
ă )	11		
Project	Sample 4 - 6th Quarter	Sample 4 - 7th Quarter	
MNV#	-		
Sample Date	07/21/98	10/08/98	
Site Name	Coldiron A #1	Coldiron A #1	
Meter/Line#	73551	73551	
Sample #	980535	980698	

111

J:\17520\Report98\Table1

i i

1

# 1998 GROUNDWATER ANALYTICAL

EL PLO FIELD SERVICES									0	
		vari navv			ying vata					
Site Name_COLOTION M#/		-		Development Purging	Well Nur Meter Cc	nber A	1W-1 3551			
Development Criteria          X       3 to 5 Casing Volumes of Water Removel         X       3 to 5 Casing Volumes of Water Removel         Image: Stabilization of Indicator Parameters       Image: Stabilization of Indicator Parameters	Water Vo Initial Depth of Initial Depth to Height of Wate	Nater (feet) 4	ulation 25-34 32-34	30			ants pH Meter DO Monitor Conductivity	Meter		
Methods of Development Pump Baller Centrifugal X Bottom Valve	Diameter (inche Item	s): Welt Y <sup>LL</sup> Water Volun Cubic Feet	Gravel Par ne in Well Gallons	ck Gallons to be Removed	[]		Temperature Other	Meter O.C.H.S.	SMETS KIT	
Stainlessesteet Kemmerer	Well Casing Gravel Pack		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	15.7		Water D	isposal 52	THAP AT	de	
Other	Drilling Fluids Total					4				
Water Removal Data										
Development         Removal         Intake           Date         Time         Method         Rate         Depth           Pumn         Bailer         (cal/min)         (feet)	Ending Water Depth (feet)	Water V Remove Increment	'olume ed (gal) Cumulative	Product Volume Removed (gallons) Increment   Cumulativ	Temperature °C	Hd	onductivity µmho/cm	Dissolved Oxygen ma/L	Comments	
7-21-98 1501					21.9	6.62 .	33/0	b.		
7-21-98 1508		50	20		220	6.87	3600			
7-21-92 1526		5.0	12:0	and a second	20.6	1/2	1200			
7-21-90 1539		50	220		214	7.24 4	13/0	0.5		
		an a construction of the second s						·		
Comments THE WELL HAD 2090	SFERE	E FLOM	TTNG	HUNDCAN	PRON.	-				
Developer's Signature demonstration Clad				nate 7-21-98	Reviewer	- Red	falle	Dat	te 7/29/48	
					_		) 		1 1	



## FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

#### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980535
MTR CODE   SITE NAME:	73551	Coldiron A #1
SAMPLE DATE   TIME (Hrs):	7/21/98	1551
PROJECT:	Sample 4 (	6th Quarter
DATE OF BTEX EXT.   ANAL.:	7/27/98	7/27/98
TYPE   DESCRIPTION:	MW-1	Water

Field Remarks:

#### RESULTS

PARAMETER	RESULT	UNITS	DF	OUALIFIER	S
BENZENE	79.6	РРВ	2	D	
TOLUENE	74.0	РРВ	2	D	
ETHYL BENZENE	172	РРВ	2	D	
TOTAL XYLENES	4250	PPB	10	D	
TOTAL BTEX	4575	РРВ			

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 94.2 % for this sample All QA/QC was acceptable.

DF = Dilution Factor Used

The "D" qualifier indiciates that the analyte calculated is based on a secondary dilution factor.

Narrative:

0				
Approved By:	John Fard	980535BTEXMW,7/29/98	Date:	7/29/48

	Idwe.	19 4 91	S THORN D	Natural 6	as Company		A	2374 •	
		:	CHAIN	OF CUST	ODY RECORD				
Project No.	ct Name	10#77	. 551	Туре		Requested Analysis			
Samplers: (Signature)	mma	e Cira	1 Date: 7-21-98	and No. Sample	anbiuldas solisesus			Remarks	<u> </u>
MHTRVV Date Tim	ie Comp. GR	1AB	Sample Number	Contain- ers					
WHITER 7-21-98 153		X	980535	6-14	XZA	2	VOLTON	1 A#1 MW-1	
				/					
÷									
		-							
									1
Relinguished by: (Signatur	e)	Date/Time	e Received by: (Signature)		Retinquished by: (Signature)		Date/Time 	Received by: (Signature)	
LENNIO,	Steel	1/18/22/	L D	an a	والمراجع والمراجع المراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع والمراجع				
Relinquished by: (Signatur	e)	Date/Tim	e Received by: (Signature)		Relinquished by: (Signature		Date/Time	Received by: (Signature)	1
Relinquished by: (Signatur	e)	Date/Tim	e Received for Laboratory by: (5	signature)	ZZ Date/Time Re	marks:			
	<b>14 (1)</b>		11 Martin North	le l'	198 110/0				
Carrier Co:			Carrey	one Na.		te Hesults Heported	l / by: (Signature)		
Air Bill No.:			na statistica (n. 1919). 1919 - Angele Angel		a ar f a gar a tha an			1 mart	
								Still Jardin and State 1 (1997) 1 (1997) 1 (1997) 1 (1997) 1 (1997)	-55.4

.....

		Well Dev	velopm	ent and Pu	rging Dat	g				
Site Name COLDIRON A #1		- -		Development Purging	Well Nu Meter C	mber ode	MW-1 3551			
Development Criteria         X       3 to 5 casing Volumes of Water Removel         Stabilization of Indicator Parameters         Other         Deteolopment         Pump         Detrifugal         Bailer         Centrifugal         Submersible         Double Check Valve         Peristaltic       Stainless-steel Kemmerer	Water Vo Initial Depth of Initial Depth to Height of Wate Diameter (inchu Itern Well Casing Gravel Pack Drilling Fluids	Iume Calc Well (feet) 2 Water (feet) 3 r Column in We Ss): Well 4 Cubio Feet	ulation	ck Gallons to be Removed		Instrum       Water	nents PH Meter DO Monitor Conductivity Temperatur Other Da	v Meter e Meter 0. CHC	METS KIT	
Water Removal Data					7					
Date     Development     Removal     Intake       Date     Time     Method     Rate     Depth       Pumn     Bailer     (aal/min)     (feet)	Ending Water Depth (feet)	Water V Remove Increment	olume ed (gal) Cumulative	Product Volume Removed (gallons Increment Cumula	Temperature	Hd	Conductivity µmho/cm	Dissolved Oxygen ma/L	Comments	
10-248 1440					20.4	6,56	3340	)		
677-2-28/1416		5.0	5.0		(2)	6.82	3920			
10-2-301 455		202	15.0		020/	7.18	4500			
10-8-18/15/2		23	30.0		8.71	<i>pk''</i>	4790	07		
Comments THE WATER HAD AU	16471	WORDO	9.RBON	SMELL.	_					
Developer's Signature Developer's Signature	S			nate 10 - 8 90	Reviewer	Peter V	feeld a		ate 10/15/98	



### FIELD SERVICES LABORATORY ANALYTICAL REPORT PIT CLOSURE PROJECT

### SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	N/A	980698
MTR CODE   SITE NAME:	73551	Coldiron A #1
SAMPLE DATE   TIME (Hrs):	10/8/98	1523
PROJECT:	Sample 4 7	th Quarter
DATE OF BTEX EXT.   ANAL.:	10/12/98	10/12/98
TYPE   DESCRIPTION:	MW-1	Water

Field Remarks:

#### RESULTS

PARAMETER	RESULT	UNITS	DF	QUALIFI	ERS
BENZENE	68.4	PPB			
TOLUENE	39.6	РРВ			
ETHYL BENZENE	91.2	РРВ			
TOTAL XYLENES	1780	РРВ	5	D	
TOTAL BTEX	1979	PPB			

--BTEX is by EPA Method 8020 --

The Surrogate Recovery was at 99.9 % for this sample All QA/QC was acceptable. DF = Dilution Factor Used

The "D" qualifier indiciates that the analyte calculated is based on a secondary dilution factor.

Narrative:

3 I. T

0				
Approved By:	Jan Lala	980698BTEXMW,10/15/98	Date:	10/15/48

	100k	J.	NLC MLL	La Contra			A 2399	
		~		CHAIN OF C	USTODY RECORD			
Project No. Proj	act Name	404	13.051	Type		Requested Analysis		
Samplers: (Signature) ) f	2 M. R. C.	. En	Date: 10	-5-95 No.			Remarks	
AHTAY Date Ti	ne Comp. G	RAB	Sample Number	Contail				
WHITER 12-551 15	54.		9825	2 61	X Dot	CON	TRON A #1 MW	
	1							•
				/				
						/		
								/
Relinguished by: (Signatu	مەرد مەربى (9)	Dat	te/Time Received by:	(Signature)	Relinquished by: (Signatu	re)	Date/Time Received by: (Signature	a series and a set of the second s
IL P. W. W. V.	2142	15-8-21	7123					
Relinquished by: (Signatu	e)	Dal	te/Time Received by:	(Signature)	Relinquished by: (Signatu	re)	Date/Time Received by: (Signature	
Relinquished by: (Signatu	(ə.	Da	te/lime Received for	Laboratory by: (Signature	10/ Date/Time	Hemarks:		
Carrier Co:		_	ATT CUR	Carrierhone No.	ron all	Date Results Reported / b	: (Signature)	
			1	•				
Air Bill No.:							35	juan rapto Form 71-55 A