3R-104

REPORTS







May 15, 2006

Mr. Glenn von Gonten Hydrologist – Groundwater Remediation New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

RE: Annual Groundwater Remediation Reports

Dear Mr. von Gonten:

XTO Energy Inc. (XTO) is presenting a second submission of the Annual Groundwater Remediation Report in accordance with the NMOCD approved Groundwater Management Plan (GMP), which will complete this years reporting. Enclosed are summary reports with analytical data, summary tables, site maps, potentiometric surface diagrams and recommendations/proposed actions for:

- Baca Gas Com A #1A
- Frost, Jack B #2
- Haney Gas Com B #1E
- Hare Gas Com B #1E
- Masden Gas Com #1E

- McDaniel Gas Com B #1E
- Snyder Gas Com #1A
- Stedje Gas Com #1
- Sullivan Frame A #1E

Thank you for your review of the reports and allowing some flexibility with this years reporting schedule. If you have any questions please do not hesitate to contact me at (505) 566-7942.

Sincerely,

Lisa Winn Environmental Specialist San Juan Division

cc: Mr. Denny Foust, Environmental, NMOCD District III Office, Aztec, NM File – San Juan Groundwater



XTO ENERGY INC.

ANNUAL GROUNDWATER REPORT

2005

BACA GC A #1A (F) SECTION 26 – T29N – R10W, NMPM SAN JUAN COUNTY, NEW MEXICO

PREPARED FOR: MR. GLENN VON GONTEN NEW MEXICO OIL CONSERVATION DIVISION

APRIL 2006

TABLE OF CONTENTS

Groundwater Monitor Well Sampling Procedures	3
Water Quality and Gradient Information	ļ
Summary 4	ł
Appendices	
Table 1: General Water Chemistry Summary – 5/25/99	
Table 2: General Water Chemistry Summary – 6/12/96	
Table 3: BTEX Summary – 6/12/96	
Figures 1 - 2: Site Diagrams	
Field Sampling Data Summaries	
Laboratory Reports	
Pit Closure Report (4/94)	





XTO Energy Inc. Baca GC A #1A SE/4 NW/4 S26, T29N, R10W

Pit Closure Date:	4/1/94
Monitor Well Installations:	6/7/96
Monitor Well Sampling:	6/12/96, 5/25/99

Historical Information:

- April 1994- Groundwater impacts were suspected during closure of an Amoco Production Company (Amoco) earthen blow pit. Less than 70 cubic yards of impacted soil was excavated and landfarmed on site. Groundwater was found at about 3 feet below surface grade.
- June 1996- Amoco conducted a groundwater investigation by installing and sampling monitoring wells MW1, MW2 and MW3.
- January 1998- XTO Energy Inc. (XTO) acquired the Baca GC A #1A from Amoco.
- May 1999- Groundwater samples were collected from site monitoring wells to investigate potential cation/anion impacts to groundwater.
- February 2000- Request submitted for site closure.
- December 2000- Correspondence was received from New Mexico Oil Conservation Division (NMOCD) denying the request for closure pending submittal of four consecutive quarters of sample analyses.
- April 2006- XTO submits annual groundwater report recommending continued monitoring.

Groundwater Monitor Well Sampling Procedures:

Groundwater samples were collected from site monitor wells (Figure 1) following US EPA: SW-846 protocol. Samples were collected using new disposable bailers and placed in laboratory supplied containers and stored in a cooler on ice. The samples were delivered to an accredited environmental laboratory according to chain-of-custody procedures. The samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) per US EPA Method 8021B and general water chemistry per US EPA Method 600/4-79-020. Analytical results are summarized on Tables 1, 2 & 3. Waste generated (groundwater) during monitor well sampling and development was placed in the produced water separator tank located on the well site.

Water Quality and Gradient Information:

Groundwater elevation data (Figure 2) indicates that groundwater trends towards the northwest.

XTO understands the initial evaluation of groundwater impact came from samples of groundwater collected from the bottom of the blow pit following excavation of hydrocarbon impacted soil. Laboratory analysis of the initial samples indicated elevated levels of dissolved phase BTEX constituents in groundwater. In 1999 three groundwater monitoring wells were installed to delineate the extent of hydrocarbon impact to groundwater. Monitoring well numbered MW#2 was installed near the center of the source area, (closed and backfilled earthen blow pit). Monitoring well numbered MW#3 was placed down gradient of MW#2. BTEX constituents were not detected above the laboratory equipment detection limits (0.2 ug/L) in any of the three monitoring wells. Sampling was terminated and site closure requests were submitted.

Summary:

Analytical data from the November 1999 groundwater monitor well sampling event indicates that groundwater quality standards were observed. Correspondence from NMOCD in 2000 requested four consecutive quarters of testing, in compliance with XTO's Groundwater Management Plan. XTO proposes to install an additional monitoring well down gradient of MW#2 and place this site on a quarterly sampling schedule.

TABLE 1

GENERAL WATER QUALITY

XTO ENERGY INC.

BACA GC A #1A

SAMPLE DATE : May 25, 1999

PARAMETERS	MW # 1	MW # 2	MW # 3	Units
LAB pH	6.88	7.29	7.19	s. u.
LAB CONDUCTIVITY @ 25 C	10,700	8,800	6,470	umhos / cm
TOTAL DISSOLVED SOLIDS @ 180 C	5,350	4,380	3,230	mg / L
TOTAL DISSOLVED SOLIDS (Calc)	5,317	4,351	3,209	mg / L
SODIUM ABSORPTION RATIO	9.9	7.9	8.7	ratio
TOTAL ALKALINITY AS CaCO3	570	352	326	mg / L
TOTAL HARDNESS AS CaCO3	1,795	975	934	mg / L
BICARBONATE as HCO3	570	352	326	mg / L
CARBONATE AS CO3	< 1	< 1	< 1	mg / L
HYDROXIDE AS OH	< 1	< 1	< 1	mg / L
NITRATE NITROGEN	0.2	0.4	0.2	mg / L
NITRITE NITROGEN	0.003	0.025	< 0.001	mg / L
CHLORIDE	11.5	58.8	54.0	mg / L
FLUORIDE	6.30	1.80	1.55	mg / L
PHOSPHATE	< 0.1	23.2	< 0.1	mg / L
SULFATE	3,300	2,710	1,920	mg / L
IRON	1.15	0.15	0.27	mg/L
CALCIUM	552	520	328	mg / L
MAGNESIUM	101.0	79.4	27.8	mg/L
POTASSIUM	40.0	14.0	70.0	mg/L
SODIUM	960	730	610	mg/L
CATION / ANION DIFFERENCE	0.09	0.14	0.12	

TABLE 2

____

GENERAL WATER QUALITY

XTO ENERGY INC.

BACA GC A #1A

SAMPLE DATE : JUNE 12, 1996

F	PARAMETERS	MW #1	MW #2	MW #3	Units
GENERAL	LAB pH	7.3	7.5	7.2	S. U.
	LAB CONDUCTIVITY				
	(25 DEG. CELCIUS)	8,210	3,720	5,670	umhos cm
	TOTAL DISSOLVED SOLIDS (180 DEG. CELCIUS)	8,210	2,860	4,710	mg / L
	TOTAL DISSOLVED SOLIDS (CALCULATED)	7,860	2,560	4,130	mg / L
ANIONS	TOTAL ALKALINITY AS CaCO3	764	239	358	mg / L
	BICARBONATE ALKALINITY (AS CaCO3)	764	239	358	mg / L
	CARBONATE ALKALINITY (AS CaCO3)	NA	NA	NA	mg / L
	HYDROXIDE ALKALINITY (AS CaCO3)	NA	NA	NA	mg / L
	CHLORIDE	40.0	17.5	342	mg / L
	SULFATE	4,960	1,600	2,250	mg / L
	NITRATE + NITRITE - N	NA	NA	NA	
	NITRATE - N	NA	NA	NA	
	NITRITE - N	NA	NA	NA	
CATIONS	TOTAL HARDNESS AS CaCO3	4,620	900	1,460	mg / L
	CALCIUM	497	311	498	mg / L
	MAGNESIUM	91.6	30.2	53.2	mg / L
	POTASSIUM	17.0	36.0	12.00	mg / L
	SODIUM	1,800	420	760	mg / L
DATA VALIDATION					ACCEPTANCE LEVEL
	CATION/ANION DIFFERENCE	3.75	1.87	0.80	+/- 5 %
	TDS (180):TDS (CALCULATED)	1.0	1.1	1.1	1.0 - 1.2

TABLE 3

XTO ENERGY INC. GROUNDWATER MONITOR WELL LAB RESULTS SUBMITTED BY BLAGG ENGINEERING, INC.

BACA GC A #1A - SEPARATOR PIT UNIT F, SEC. 26, T29N, R10W

REVISED DATE: JANUARY 13, 1997

FILENAME: (BA-2Q-96.WK3) NJV

							ſ	BTE	X EPA MET	HOD 8020 (P	PB)
SAMPLE DATE	MONITOR WELL No:	D.T.W. (ft)	T.D. (ft)	TDS ma/L	COND. umhos	рН	PRODUCT	Benzene	Toluene	Ethyl Benzene	Total Xvlene
				<u> </u>		1		I.			
12-Jun-96	MW #1	4.92	7.79	8210	5000	7.1		0.67	6	ND	1
12-Jun-96	MW #2	6.97	10.03	2860	2500	7.0		, ND	ND	ND	ND
12-Jun-96	MW #3	6.77	9.24	4710	2400	6.9		ND	4	ND	ND





BLAGG ENGINEERING, INC. MONITOR WELL SAMPLING DATA

CLIENT: XTO ENERGY INC.

CHAIN-OF-CUSTODY #: 6681

BACA GC A #1A - SEPARATOR PIT UNIT F, SEC. 26, T29N, R10W

LABORATORY (S) USED : ENVIROTECH, INC.

Date : May 25, 1999

Filename : 05-25-99.WK4

SAMPLER : NJV PROJECT MANAGER : NJV

WELL	WELL	WATER	DEPTH TO	TOTAL	SAMPLING	pН	CONDUCT	VOLUME	FREE
#	ELEV.	ELEV.	WATER	DEPTH		TIME		PURGED	PRODUCT
L <u></u>	(ft)	(ft)	(ft)	(ft)			(umhos)	(gal.)	(ft)
1	100.88	96.79	4.09	7.79	0800	-	-	1.50	-
2	102.57	96.43	6.14	10.03	0830	-	-	1.50	-
3	102.05	96.10	5.95	9.24	0900	-	-	1.25	_

NOTES : Volume of water purged from well prior to sampling; V = pi X r2 X h X 7.48 gal./ft3) X 3 (wellbores).

(i.e. 2" MW r = (1/12) ft. h = 1 ft.) (i.e. 4" MW r = (2/12) ft. h = 1 ft.)

Ideally a minimum of three (3) wellbore volumes:

1.25 " well diameter = 0.19 gallons per foot of water (or 24 oz.). 2 bails per foot - small teflon bailer.

3 bails per foot - 3/4" teflon bailer.

2.00 " well diameter = 0.49 gallons per foot of water.

4.00 " well diameter = 1.95 gallons per foot of water.

Comments or note well diameter if not standard 2".

Collected anion / cation for all MW's listed above .

ENVIROTECH LABS

CATION / ANION ANALYSIS

Client:	Blagg / Cross Timbers	Project #:	403410
Sample ID:	MW #1	Date Reported:	05-27-99
Laboratory Number:	F383	Date Sampled:	05-25-99
Chain of Custody:	6681	Date Received:	05-25-99
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	05-26-99
Condition:	Cool & Intact		

	Analytical			
Parameter	Result	Units		Units
рН	6.88	s.u.		
Conductivity @ 25° C	10,700	umhos/cm		
Total Dissolved Solids @ 180C	5,350	mg/L		
Total Dissolved Solids (Calc)	5,317	mg/L		
SAR	9.9	ratio		
Total Alkalinity as CaCO3	570	mg/L		
Total Hardness as CaCO3	1,795	mg/L		
Bicarbonate as HCO3	570	mg/L	9.34	meq/L
Carbonate as CO3	<1	mg/L	0.00	meq/L
Hydroxide as OH	<1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.2	mg/L	0.00	meq/L
Nitrite Nitrogen	0.003	mg/L	0.00	meq/L
Chloride	11.5	mg/L	0.32	meq/L
Fluoride	6.30	mg/L	0.33	meq/L
Phosphate	<0.1	mg/L	0.00	meq/L
Sulfate	3,300	mg/L	68.71	meq/L
Iron	1.15	mg/L		
Calcium	552	mg/L	27.54	meq/L
Magnesium	101	mg/L	8.31	meg/L
Potassium	40.0	mg/L	1.02	meq/L
Sodium	960	mg/L	41.76	meq/L
Cations			78.64	mea/L
Anions		•	78.71	meq/L
Cation/Anion Difference			0.09%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Water And Waste Water", 18th ed., 1992.

Comments: Baca GC A #1A. llen Analyst

Stacy W Lendler

ENVIROTECH LABS

CATION / ANION ANALYSIS

Client:	Blagg / Cross Timbers	Project #:	403410
Sample ID:	MW #2	Date Reported:	05-27-99
Laboratory Number:	F384	Date Sampled:	05-25-99
Chain of Custody:	6681	Date Received:	05-25-99
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	05-26-99
Condition:	Cool & Intact		

•	Analytical			
Parameter	Result	Units		Units
рН	7.29	s.u.		
Conductivity @ 25° C	8,800	umhos/cm		
Total Dissolved Solids @ 180C	4,380	mg/L		
Total Dissolved Solids (Calc)	4,351	mg/L		
SAR	7.9	ratio		
Total Alkalinity as CaCO3	352	mg/L		
Total Hardness as CaCO3	975	. mg/L		
Bicarbonate as HCO3	352	mg/L	5.77	meq/L
Carbonate as CO3	<1	mg/L	0.00	meq/L
Hydroxide as OH	<1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.4	mg/L	0.01	meq/L
Nitrite Nitrogen	0.025	mg/L	0.00	meq/L
Chloride	58.8	mg/L	1.66	meq/L
Fluoride	1.80	mg/L	0.09	meq/L
Phosphate	23.2	mg/L	0.73	meq/L
Sulfate	2,710	mg/L	56.42	meq/L
Iron	0.150	mg/L		
Calcium	520	mg/L	25.95	meq/L
Magnesium	79.4	mg/L	6.53	meq/L
Potassium	14.0	mg/L	0.36	meq/L
Sodium	730	mg/L	31.76	meq/L
Cations			64 59	meg/l
Anions			64.68	meq/L
Cation/Anion Difference		•	0.14%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Water And Waste Water", 18th ed., 1992.

Comments: Baca GC A #1A. Analyst

Stacy W Sendler Review

ENVIROTECH LABS

CATION / ANION ANALYSIS

Client:	Blagg / Cross Timbers	Project #:	403410
Sample ID:	MW #3	Date Reported:	05-27-99
Laboratory Number:	F385	Date Sampled:	05-25-99
Chain of Custody:	6681	Date Received:	05-25-99
Sample Matrix:	Water	Date Extracted:	N/A
Preservative:	Cool	Date Analyzed:	05-26-99
Condition:	Cool & Intact		

	Analytical			
Parameter	Result	Units		Units
рН	7.19	S.U.		
Conductivity @ 25° C	6,470	umhos/cm		
Total Dissolved Solids @ 180C	3,230	mg/L		
Total Dissolved Solids (Calc)	3,209	mg/L		
SAR	8.7	ratio		
Total Alkalinity as CaCO3	326	mg/L		
Total Hardness as CaCO3	934	mg/L		
Bicarbonate as HCO3	326	[·] mg/L	5.34	meq/L
Carbonate as CO3	<1	mg/L	0.00	meq/L
Hydroxide as OH	<1	mg/L	0.00	meq/L
Nitrate Nitrogen	0.2	mg/L	0.00	meq/L
Nitrite Nitrogen	<0.001	mg/L	0.00	meq/L
Chloride	54.0	mg/L	1.52	meq/L
Fluoride	1.55	mg/L	0.08	meq/L
Phosphate	<0.1	mg/L	0.00	meq/L
Sulfate	1,920	mg/L	39.97	meq/L
Iron	0.270	mg/L		
Calcium	328	mg/L	16.37	meq/L
Magnesium	27.8 [°]	mg/L	2.29	meq/L
Potassium	70.0	mg/L	1.79	meq/L
Sodium	610	mg/L	26.54	meq/L
Cations			46.98	mea/L
Anions			46.93	meq/L
Cation/Anion Difference			0.12%	

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983. Water And Waste Water", 18th ed., 1992.

Comments: Baca GC A #1A. ne Analyst

<u>Stacy W Sendler</u> Review

		CHAIN	OF CUST	ODY RECORD	6681	Γ
Client / Project Name	tinbers	Project Location	A #1.A	ANALYSIS / PAR	AMETERS	
Sampler:		Client No.	410	sienies Action	ALL SALPES	
Sample No./ Sa Identification D	tmple Sample Date Time	Lab Number	Sample Matrix	NG Contrord Contrord	KEER COO	ŗ
Ww # 1 \$	0080 66/5	F383	WATER	· /		
mw # 2 \$/2	5/99 0830	F384	WATER			
MW # 3 5/2	0060 66/5	F385	WAFR			
Relinquished by: (Signature)			Date Time Reco	iyed by: (Signature)	Date 7	lime
Relinquished by: (Signature)	¢			ived by: (Signature)		
Relinquished by: (Signature)			Rece	ived by: (Signature)		
			INIROTE	CH INC.	Sample Receipt	NA NA
			5796 U.S. Hig Farmington, New N (505) 6 ³ ?-	hway 64 4exico 87401 0615	Received Intact	

Form 3160-5 UN (June 1990) DEPARTME	ITED STATES NT OF THE INTERIOR	FORM APPROVED Budget Bureau No. 1004–0135 Expires: March 31, 1993
BUREAU OF	LAND MANAGEMENT	5. Lease Designation and Serial No.
SUNDRY NOTICES Do not use this form for proposals to d Use "APPLICATION FO	AND REPORTS ON WELLS rill or to deepen or reentry to a different reservoir. PR PERMIT—" for such proposals	6. If Indian, Allottee or Tribe Name
SUBMI	T IN TRIPLICATE	7. If Unit or CA, Agreement Designation
1. Type of Well Gas		8. Well Name and No. PACA CC A #14
Amoco Production	n Company	9. API Well No. 3004526 180
200 Amoco Court, Farmington	N.M. 87401 Tel: (505) 326-9200	10. Field and Pool, or Exploratory Area
$SE(4 N\omega/4 S-26$	TZ9N RLOW NMPM	SAN JUAN, NM
12. CHECK APPROPRIATE BOX	(s) TO INDICATE NATURE OF NOTICE, REPOI	RT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	·
Notice of Intent	Abandonment Recompletion	Change of Plans New Construction Non-Routine Fracturing
Final Abandonment Notice	Casing Repair Attering Casing Other <u>P++ clodume</u>	Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion on Report and Log (orm)
Describe Proposed or Completed Operations (Clearly state a give subsurface locations and measured and true vert	all pertinent details, and give pertinent dates, including estimated date of starting ical depths for all markers and zones pertinent to this work.)*	g any proposed work. If well is directionally drilled,
pit cusure use	up Aton	
SEE ATH-CHED DOC	il metris.	
1 BLOW PIT/SE	PARATOR PTT - STEEL TRUK, EROUNDU	SATER, PERMANENT
	CLOSURE UNDER F (SEC. 2.3)-REUTS	1mocos Gw PLAN ED 5/11/98.
		7/19/98 415
14. I hereby coffic that the foregoing s true and correct Signed	Titl Enviro. Coordinator	
pproved by	Title	Date
Title 18 U.S.C. Section 1001, makes it a crime for any person or representations as to any matter within its jurisdiction.	h knowingly and willfully to make to any department or agency of the United	States any false, fictitious or fraudulent statements

District I District II " 7. Drawer DD, Artesia, NM \$\$211

strict III Rio Brazos Rd, Aztoc, NM \$7410

State of New Mexico P.O. Box 1980, Hobbs, NM Energy, Minerals and Natural Resources Department

APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE

SUBMIT 1 COPY TO

OIL CONSERVATION DIVISION P.O. Box 2088 Santa Fe, New Mexico 87504-2088

PIT REMEDIATION AND CLOSURE REPORT

Operator:	Amoco Production Company	Telephone: (505) - 326-9200
	200 Americ Court Formingto	n Nov Movico 87/01
Addle33:	200 Amoco Court, Farmingto	n, New Mexico 87401
Facility Or: Well Name	BACA GC A "IA	
Location: Unit	or gtr/gtr secs	ec 26 T29N R 10 W County SAN JUAN
Pit Type: Sepa	rator X Dehydrator (Other
Land Type: BL	M, State, Fee	, Other (om. A6mT.
Tit Location:	Pit dimensions: lengt Reference: wellhead χ	h <u>25</u> , width <u>25</u> , depth <u>3</u> , other
	Footage from reference	:
	Direction from referen	ce: $\frac{75}{2}$ Degrees \underline{X} East North \underline{X} of \underline{X} West South
Depth To Groun (Vertical distance contaminants to so high water elevat ground water)	d Water: e from easonal ion of	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 Points) <u>20</u>
Wellhead Prote (Less than 200 fe domestic water so 1000 feet from al	ction Area: et from a private burce, or; less than l other water sources)	Yes (20 points) No (0 points) <u>O</u>
ristance To Su prizontal dista es, ponds, riv irrigation canals	rface Water: ince to perennial ers, streams, creeks, and ditches)	Less than 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points) 20
		RANKING SCORE (TOTAL POINTS): <u>40</u>

Data Depediation St		Date Completed: $4/1/04$
Date Remediation St.	Everytics V	$\underline{\qquad \qquad } \text{ Date Completed:} \underline{\qquad } \frac{1/(1/1)}{4}$
(Check all appropriate	Excavation \underline{X}	Ingitu Bioremediation
sections)	Other	
	Ocher	<u></u>
Remediation Location (ie. landfarmed onsite, name and location of offsite facility)	n: Onsite <u>X</u> Of	fsite
General Description	Of Remedial Actic	on:
Excavatio	on	
Also Alex	<u></u>	
·	Ś	
	4	
Ground Water Encoun	tered: No	Yes X Depth 3
•		
Final Pit: Closure Sampling:	Sample location _	see Attached Documents
(if multiple samples, attach sample results		
and diagram of sample locations and depths)	Sample depth	
	Sample date	Sample time
	Sample Results	
۲۰ د	Benzene(ppm)	
	Total BTEX(F	(mqc
	Field headsp	pace(ppm)
	TPH	
Ground Water Sample	: Yes <u>X</u> No	(If yes, attach sample results)
I HEREBY CERTIFY TH	AT THE INFORMATION BELIEF	ABOVE IS TRUE AND COMPLETE TO THE BES
DATE 4/25/94		DIINCI
SIGNATURE BASI	Van AND TIT	The Environmental Coordinator

	B - (14.8) T - 68 E - 20.2	pro
	x - 37.8 TH= 40	
	MERE: MLORNIEL GL "8" #IE ENVIROTECH Inc. PIT NO <u>C496</u>	Mer
	5796 US HWY. 64, FARMINGTON, NM 87401 C.D.C. ND 3472 (505) 632-0615	
	FIELD REPORT: CLOSURE VERIFICATION	
	LOCATION: LEASE: BACA GC A" WELL IA OD SE/4, NW/4 (F) DATE STARTED. 4-1-44 SEC. 26 TWP: 29N RNG: 10W BM: NM CNTY: SJ ST NM PIT. BLOW, See DATE FINISHED: 4-1-44 CONTRACTOR: PAM VELAGOUEZ.	
	SOIL REMEDIATION: QUANTITY: <u>PIT ~ 25 x 25 x 3 bes</u>	
	DISPOSAL FACILITY: LAND FARM ON SUTE LAND USE: SWAN LAND SURFACE CONDITIONS: ET CALAND POUR - ARGULAL	
F	FIELD NOTES & REMARKS' BIT LITCATED APPERTMATELY 160 FEET N 75° F FERMINELLEAD	- - -
	PIT EK CAUATED TO GEOWDWATE @ 3'	
	ATTEARS TO SERVICE 3 SEPARATORS + BLOW FOR POSSIBLY BOTH WELLS.	
	GAS BLOWING INTO PIT AT APPEILAR. WAITED FOR GAS TO STOP PELOE TO SAMPLING	:
		-
	FIELD 418.1 CALCULATIONS	
	SAMPLE I.D. LAB No: WEIGHT (g) ML. FREON DILUTION READING CALC. ppm DEPTH TO GROUNDWATER 3 NEAPEOT ANTER SOURCE STAN JULY >	LOATH
	NEAREST LUFFACE WATER SWAMP 20 E	AJ T
	SCALE	кн
	OVM	
-	PIT PERIMETER RESULTS PIT PROFILE	1
	TU BACA GOR EARTHEN IN ONESCEN 18	
- -	$= \left(\begin{array}{c} \textcircled{0} \\ (\textcircled{0}) \\ (\overbrace{st}) (\overbrace{st}) \\ (\overbrace{st}) (s$	
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	(Th) t IND	
-1-	Th 3 Bret	
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, , , ,	TRAVEL NOTES. 142 DUT: 3-31-44 UNSITE 4-1-44 300 HPS	- , v

l





5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	3031	Date Reported:	04-05-94
Laboratory Number:	7140	Date Sampled:	04-01-94
Sample Matrix:	Water	Date Received:	04-04-94
Preservative:	HgCl & Cool	Date Analyzed:	04-04-94
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/L)	Det. Limit (ug/L)
Benzene	14.8	0.2
Toluene	68	0.4
Ethylbenzene	20.2	0.2
p,m-Xylene	298	0.2
o-Xylene	39.8	0.2

SURROGATE	RECOVERIES :	Parameter	Percent Recovery					
		Trifluorotoluene		9	7	Ł		
		Bromofluorobenzene		8	6	₿		

Method: Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992

> Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986

ND - Parameter not detected at the stated detection limit.

Comments: Baca GC "A" #1A Blow/Sep C4961

Analyst





5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615 • FAX: (505) 632-1865

> EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	2 SWS @ 2'	Date Sampled:	04-01-94
Laboratory Number:	7139	Date Received:	04-04-94
Samplę Matrix:	Soil	Date Analyzed:	04-08-94
Preservative:	Cool	Date Reported:	04-08-94
Condition:	Cool & Intact	Analysis Needed:	ТРН

Parameter	Concentration (mg/kg)	Limit (mg/kg)
Total Petroleum Hydrocarbons	ND	20.0

ND = Parameter not detected at the stated detection limit. N/A = Not applicable

Method: Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Baca GC "A" #1A Blow/Sep Pit C4961

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Review

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			Sample Time	1320	1320						-]		· · ·		-	
	071	J.S.	Sample Date	h-1-h	47-1-4			-				\mathcal{W}	14				
	Autoco H 92	sampler: (Signature) \mathcal{R} . $\mathcal{F}_{\mathcal{C}}$ \mathcal{O} \mathcal{N}	Sample No./ Identification	2 suse 2'	(J) @ 3'							Relinquished by: (Signature)	V. C. O.M	Relinquished by: (Signature)	telinquished by: (Signature)		