Blow-OX sep-risk NM 0498

District I P.O. Box 1980, Hobbes, NM State of New Mexico
Energy, Minerals and Natural Resource Department

histrict II 2.O. Drawer DD, Arteus, NM 88211 OIL CONSERVATION DIVISION P.O. Box 2088

District III 1000 Rio Brazos Rd, Aztec, NM 87410

Santa Fe, New Mexico 87504-2088

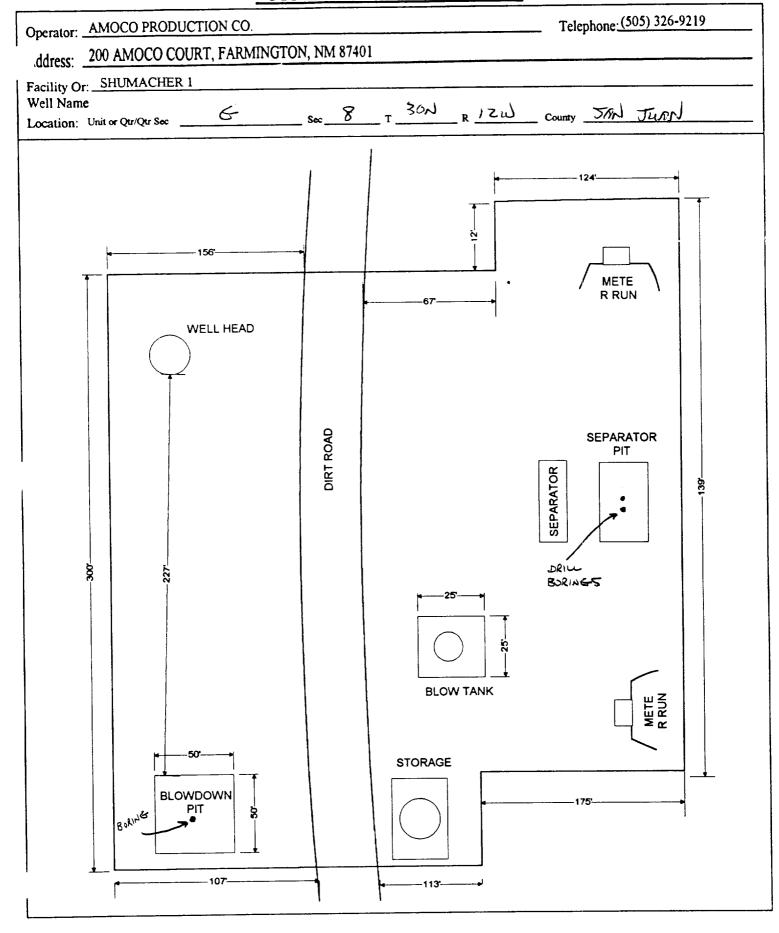
SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE (Revised 3/9/94)

PIT REMEDIATION AND CLOSURE REPORT

Operator: AMOCO PRODUCTION COMPAN	Υ	Telephone: (505) 326-9216	
A 2d ess; 200 AMOCO COURT, FARMINGT			
Facility of SHUMACHER #1			
Well Name Location: Unit or Qtr/Qtr Sec SW/NE	Sec 8	County SAN JUAN	
Pit Type: Separator Dehydrator			
Land Type: BLM XX State Fee			
Danie Type. 22.01			
Pit Location: Pit dimensions: I (Attach diagram)	ength57 width54 depth	n8	
Reference: v	ellhead XX Other		
Footage from reference:			
Direction from reference:		East North CAST	
		of	
		West South	
	7 1 50 6 1	(20	
Depth To Ground Water: (Vertical Distance from	Less than 50 feet	(20 points)	
contaminants to seasonal	50 feet to 99 feet	(10 points) 0	
high water elevation of ground water)	Greater than 100 feet	(0 points)	
Wellhead Protection Area:	Yes	(20 points)	
(less than 200 feet from a private domestic water source, or, less than	No	(0 points)0	•
1000 feet from all other water sources)			
Distance To Surface Water: (Horizontal distance to perennial	Less than 200 feet	(20 points)	
lakes, ponds, rivers, streams, creeks,	200 feet to 1000 feet	(10 points)	
irrigation canals and ditches)	Greater than 1000 feet	(0 points)	•
	RANKING SCORI	E (TOTAL POINTS): 0	-

Date Remediation Started:	05/03/94 Date Completed: 05/05/94	
Remediation Method:	Excavation XX Approx. cubic yards 912	
	·	
	Landfarmed Insitu Bioremediation	
	Other	
Remediation Location: (ie. landfarmed onsite, name and location of officite facility)	Onsite XX Offsite	-
General Description of Ren	mediation Action:	
CONTAMINATED SOIL	WAS REMEDIATED BY DILUTION AND AERIATION.	•
		•
		-
		-
		•
Ground Water Encountere	d: No Yes Depth	
Ground water Encountered	4. 110 100 Dopui	
Final Pit: Closure Sampling: (if multiple samples,	Sample location See Attached	-
Closure Sampling: (if multiple samples, attach sample results and diagram of sample		-
Closure Sampling: (if multiple samples, attach sample results		-
Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample depth	-
Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample depth	-
Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample depth Sample date	-
Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample depth Sample date 05/04/94 Sample time 08:00:00 Sample Results Benzene (ppm) Total BTEX (ppm) Field headspace (ppm) 0.0 2 9 11/20/97 970	-
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths)	Sample depth Sample date	-
Closure Sampling: (if multiple samples, attach sample results and diagram of sample	Sample depth Sample date 05/04/94 Sample time 08:00:00 Sample Results Benzene (ppm) Total BTEX (ppm) Field headspace (ppm) 0.0 2 9 11/20/97 970	-
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Ground Water Sample:	Sample depth Sample date	-
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Ground Water Sample: I HEREBY CERTIFY TH TO THE BEST OF MY K	Sample depth Sample date 05/04/94 Sample time 08:00:00 Sample Results Benzene (ppm) Total BTEX (ppm) Field headspace (ppm) 0.0 2 9 11/20/97 970 TPH 646 23 Yes NoXX (If yes, attach sample results) IAT INFORMATION ABOVE IS TRUE AND COMPLETE ENOWLEDGE AND BELIEF	-
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Ground Water Sample: I HEREBY CERTIFY TH TO THE BEST OF MY K	Sample depth Sample date 05/04/94 Sample time 08:00:00 Sample Results Benzene (ppm) Total BTEX (ppm) Field headspace (ppm) 0.0 2 9 1/20/97 970 TPH 646 23 Yes NoXX (If yes, attach sample results) IAT INFORMATION ABOVE IS TRUE AND COMPLETE	-

PIT LOCATION DIAGRAM



FINAL PIT CLOSURE SAMPLING REPORT

Operator: AMOCO PR	ODUCTION COMPA	NY			Tele	phone (505) 32	26-9216	
oddress: 200 AMOCO	O COURT. FARMING	TON, NM 874	01					
Facility Or: SHUMAC	HER #1	 						
Well Name		Sec 8	т 30	R 12	County	SAN JUAN		
Location: Unit or Qu'Qu'S	Sec SWINE	290.0	`	^				
Depth	ТРН		9	SIDE VIEW				
Surface	212 ppm							
2 ft.	1890 ppm							
4 ft.	1250 ppm							
6 ft.	1100 ppm							
8 ft.	646 ppm							
10 ft.	ppm							
12 ft.	ppm							
14 ft.	ppm							
16 ft.	ppm	-		<u> </u>				
18 ft.	ppm							
20 ft.	ppm			\mathcal{G}				
ft.	ppm							
ft.	ppm			(8,)				
ft.	ppm							
a —	O.O ppm	900		CONTINUES.				
9 FT.	o.c ppm			TOP VIEW				
	<u> </u>			_ 5/1t.				Т
North Side	445 ppm			(N)				
East Side	89 ppm							
South Side	708 ppm							
West Side	587 ppm							
								1
		_						5
	North	ω)					(4)	
	•	_						
	4- 1							
1	'			(L)				
	į			\				4-

P.O. BOX 87, BLOO	NEERING, INC. OMFIELD, NM 87413 C.O.C. NO. 5566
FIELD REPCRT: LANDFARM/COMP	OST PILE CLOSURE VERIFICATION
LICE ATION NAMES CHUMACHER JOHN WELL #:	PITS: BUW DATE STARTED: 11/20/97
QUAD/UNIT: G SEC: 8 TWP: 30N RNG: 120	PM: NM CNTY: ST ST: NYY
OTP (FOSTAGE: SWIN NEW CONTRACTOR: W	HOLE CARTA
SOIL REMEDIATION:	APPROX. CUBIC YARDAGE: _9/2
REMEDIATION SYSTEM: BICKION & HOGINGS & HOGING	LIFT DEPTH (ft): NA
	LIII DBI III (14)
FIELD MOTES & REMARKS: DEPTH TO GROUNDWATER: _>**\overline{\sigma} NEAREST WATER SOURCE:	>1000' NEAREST SURFACE WATER: >1000'
1	
A PIT CENTER ACCORDING	TO PIT ELUSINE REIST
FROM GRADE, SOIL CONSIST ENTIRE BORING COL	LECTED 3 SAMPLE PTS. NSING HAND AUGUS
(1-3' DEPTH'S BELOW GRADE), 5 PT. COMPOSITE	WH SAND W NO DISCOLORATION OR HE OBOR LECTED 3 SAMPLE PTS. NSING HAND AVEES CONNECTED FOR LAB ANALYSIS OF SUPPOSEDLY TO EXCAUATED AREA.
i	
FIELD 418	1 CALCULATIONS (g) ml. FREON DILUTION READING CALC. ppm
JAMP. TIME! SAMPLE 1.0. DAG 110.	(3)
SKETCH/SAMPLE LOCATIONS	
SKETCH/SAMPLE LOCATIONS	
SKETCH/SAMPLE LOCATIONS	OVM RESULTS LAB SAMPLES
SKETCH/SAMPLE LOCATIONS	SAMPLE FIELD HEADSPACE SAMPLE ANALYSIS TIME RESULTS ID ID ID ID
SKETCH/SAMPLE LOCATIONS	SAMPLE FIELD HEADSPACE PID (ppm) DA -1 DA -((8015) 1/2/5 ND
	SAMPLE FIELD HEADSPACE SAMPLE ANALYSIS TIME RESULTS ID PID (ppm) D TPH TIME TIME
SKETCH/SAMPLE LOCATIONS SEE SITE MAP	SAMPLE FIELD HEADSPACE PID (ppm) DA -1 DA -((8015) 1/2/5 ND
	SAMPLE FIELD HEADSPACE PID (ppm) DA -1 DA -((8015) 1/2/5 ND
	SAMPLE FIELD HEADSPACE PID (ppm) DA -1 DA -((8015) 1/2/5 ND
	SAMPLE FIELD HEADSPACE PID (ppm) DA -1 DA -((8015) 1/2/5 ND

ONSITE: 1/20/97 TRAVEL NOTES: NA CALLOUT:



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics **Total Petroleum Hydrocarbons**

Client:	Blagg / AMOCO	Project#:	04034-10
Sample ID:	DA - 1	Date Reported:	11-25-97
Laboratory Number:	C540	Date Sampled:	11-20-97
Chain of Custody No:	5566	Date Received:	11-21-97
Sample Matrix:	Soil	Date Extracted:	11-21-97
Preservative:	Cool	Date Analyzed:	11-24-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Blow Pit. 5 Pt. Composite. Schumacher, John #1 Comments:

Story W Sendler

		ဂ	HAIN OF CUS	CHAIN OF CUSTODY RECORD		
Client/Project Name		Project Location	sow pr		ANAI VOIC/DABAMETERS	
BLAGG / Amoco		SCHUMPCHER	JOHN #1		ANALTOIO/FARAMETERS	
Sampler: (Signature)		Chain of Custody Tape No.	70.)		Remarks
Helon Vil		01-45040	B	o. of tainers		
Sample No./ Sample Identification Date	Sample	Lab Number	Sample Matrix	N Con	Pac	185EN COOL
DA-1 1/20/5	11/20/97/215	C540	2017	\ \	ν,	A. COMPOSITE
					-	-
					6.00	M. may vi
Relinquished by: (Signature)			Date Time	Received by: (Signature)		Date Time
Miller Och		7	1/2/67 0904	Wenn K	. (Western	1121-97 0984
Relinquished by: (Signature)	1			Received by: (Signature)		
Relinquished by: (Signature)				Received by: (Signature)		
Baf cac's 5564	1455 4- 4955	4	ENVIROT	ENVIROTECH INC. 57% U.S. Highway 64-3014		
			Farmington, Ne (505) 6	Farmington, New Mexico 87401 (505) 632-0615		

District I P.O. Box 1980, Hobbes, NM

State of New Mexico Energy, Minerals and Natural Resource Department

histrict II

OIL CONSERVATION DIVISION P.O. Box 2088

P.O. Drawer DD, Arteus, NM 88211

Santa Fe, New Mexico 87504-2088

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTA FE OFFICE (Revised 3/9/94)

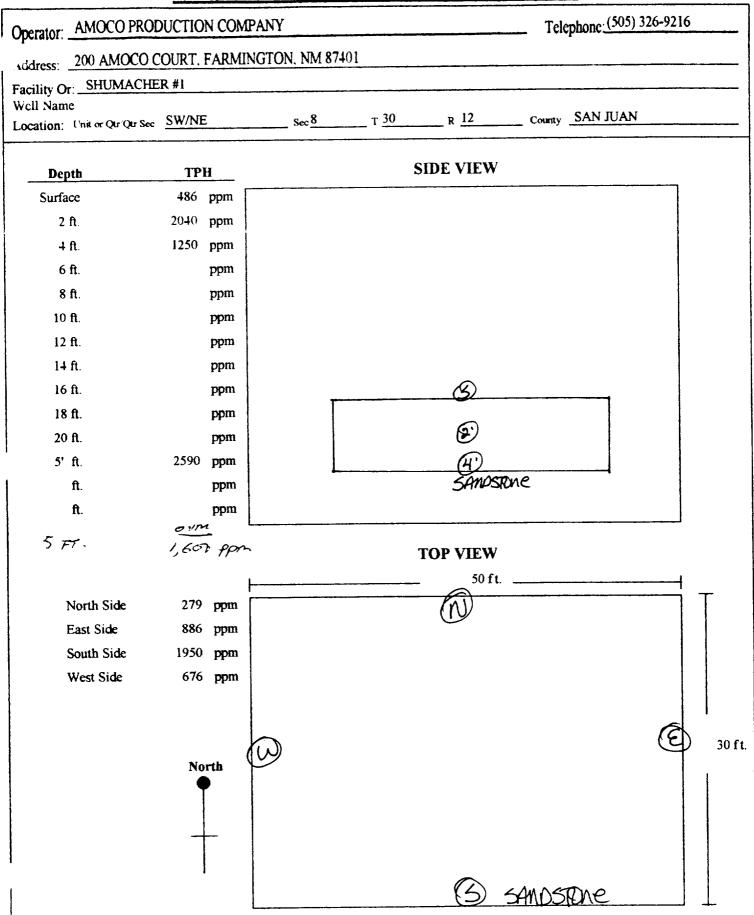
District III 1000 Rio Brazos Rd, Aztec, NM 87410

PIT REMEDIATION AND CLOSURE REPORT

Operator: AMOCO PRODUCTION COME	ANY	Telephone (505) 326-9216
Address: 200 AMOCO COURT, FARMIN	IGTON, NM 87401	
Facility Or: SHUMACHER #1		
Well Name Location: Unit or Qtr Qtr Sec SW/NE	g_8 730 p_12	County SAN JUAN
Location: Unit or Qtr Qtr Sec SW/NE	Sec 0 1 30 R 12	
Pit Type: Separator XX Dehydrato	Other	
Land Type: BLM XX State	Fee Other	
Pit Location: Pit dimensions: (Attach diagram)	Length	
Referenœ:	wellhead XX Other	
Footage from reference:	180,	
Direction from reference	: Degrees A	ORTH East North
	e ·	of
	-	West South
	1 A	(20 points)
Depth To Ground Water: (Vertical Distance from	Less than 50 feet	(10 points)
contaminants to seasonal	50 feet to 99 feet	(0 points)0
high water elevation of ground water)	Greater than 100 feet	(o points)
ground water)		
Wellhead Protection Area:	Yes	(20 points)
(less than 200 feet from a private domestic water source, or, less than	No	(0 points)
1000 feet from all other water sources)		
Distance To Surface Water:	Less than 200 feet	(20 points)
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks,	200 feet to 1000 feet	(10 points)
irrigation canals and ditches)	Greater than 1000 feet	(0 points)0
1	RANKING	SCORE (TOTAL POINTS): 0
t		

Date Remediation Started:	05/03/94	
Remediation Method:	Date Completed: 05/05/94	
Remediation Method:	Excavation XX Approx. cubic yards 277	
•		
1	To to	
•	Landfarmed Insitu Bioremediation	
	Other	
1		
Remediation Location:	Onsite XX Offsite	
(ie. landfarmed onsite, name and location of		
offsite facility)		
1		
General Description of Reme	ediation Action:	
CONTAMINATED SOIL W	AS REMEDIATED BY DILUTION AND AFRICATION	
BERROCX,		
	BOTTOM.	
		_
Ground Water Encountered:	No Yes Depth	
	Deptil	
Final Pit:		
Closure Sampling:	Sample location See Attached	
(if multiple samples,		
attach sample results and diagram of sample	Sample down	
locations and depths)	Sample depth	-
and deputis)	Sample data (15/05/04	-
	Sample time 09:00:00	
	Sample Results	ł
	-	- 1
	Benzene (ppm)	
	Total BTEX (ppm)	
	Field headspace (ppm) 1,607 e 5' 11 2,197 915	- 1
	TPH 1250 e 41	
C		- 1
Ground Water Sample: Ye	No XX (If yes, attach sample results)	
I UEDEDY OFFICE		
THEREBY CERTIFY THAT I	NFORMATION ABOVE IS TRUE AND COMPLETE	7
TO THE BEST OF MY KNOW	LEDGE AND BELIEF	
DATE 02/07/94 5/25/	98, 9V	
SIGNATURE /	PRINTED NAME BUDDY SHAW EH&S	
	AND TITLE	
_		1

FINAL PIT CLOSURE SAMPLING REPORT



Well Name:

Schumacher, John #1

Well Site location:
Pit Type:
Producing Formation:
Pit Category:
Horizontal Distance to Surface Water:
Vicinity Groundwater Depth:

Unit G. Sec. 8, T30N, R12W
Separator Pit
Basin Dakota
Non Vulnerable
> 1000 ft.
> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when loader encountered sandstone bedrock at 8 feet below grade.

No past or future threat to surface water or groundwater is likely based on the following considerations:

- 1. Past production fluids were contained locally by a relatively shallow sandstone bedrock located 8 feet below grade. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below sandstone bedrock.
- 2. Topographic information does not indicate off site lateral fluid migration near the earthen pit.
- 3. Daily discharge into the earthen pit has been terminated (pit abandoned). Prior discharge into the pit is believed to be under 5 barrels per day.
- 4. Well site located within the <u>non-vulnerable area</u> and is approximately 0.02 miles southwest of the nearest vulnerable area boundary (Flora Vista Arroyo).

(Refer to Flora Vista Quadrangle, New Mexico - Rio Arriba County, 7.5 Minute Series (Topographic), photorevised 1979, (vulnerable area boundary developed by Mr. William C. Olson, Hydrogeologist, Environmental Bureau, New Mexico Oil Conservation Division).

Based upon the information given, we conclude that the subsurface lateral impact from the earthen pit is very limited and that the sandstone bottom creates enough of an impermeable barrier as to subdue impact to groundwater below it (please refer to AMOCO's report "Post Excavation Pit Closure Investigation Summary, July, 1995", with cover letter dated November 30, 1995). AMOCO requests pit closure approval on this location.

CLIENT: __AMOCO BLAGG ENGINEERING, INC. LOCATION NO WEE P.O. BOX 87, BLOOMFIELD, NM 87413 C.D.C. ND: 5576 (505) 632-1199FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION DATE STARTED: 11/21/97 LOCATION: NAME: SCHUMACHER, JOHN WELL #:) PITS: 5EP DATE FINISHED: QUAD/UNIT: 6 SEC: 8 TWP: 300 RNG: 12W PM: Nom CNTY: 57 ST: Nom ENVIRONMENTAL NU JCB DIF/FOOTAGE: 5W/4 NE (4 CONTRACTOR: WHOLE EARTH SPECIALIST: SOIL REMEDIATION: REMEDIATION SYSTEM: DILLUTION + AERATION APPROX. CUBIC YARDAGE: 277 RANGE LIFT DEPTH (ft): NA LAND USE: FIELD NOTES & REMARKS: DEPTH TO GPOUNDWATER: 3100' NEAREST WATER SOURCE: 31000' NEAREST SURFACE WATER: 31000' NMOCD PANKING SCORE: ____ NMOCD TPH CLOSURE STD: 5000 PPM 2 BORINGS CONDUCTED & PIT CENTER ACCORDING TO PIT CLOSURE REPORT, REACHED 5' DEPTH BELOW GRADE BORINGS CONSIST OF DK. YELL. BROWN JAND FROM 0-2/2', OK. GROY JAND W/
STRONG HC ODDR BETWEEN Z/2-4/2', A COMPETENT SANDSTONE @ 5' W/ STRONG HC
DOOR, COLLECTED | JAMPLE PT. USING HAND AUGER (2' DEPTH BELOW GRADE), 5 PT. COMPOSITE COLLECTED FOR LAG ANDLYSIS OF SUPPOSEDLY DILLTED & AERATED SOIL PLACED BACK INTO EXCAUATED AREA. FIELD 418.1 CALCULATIONS |WEIGHT (g) |mL. FREON | DILUTION | READING | CALC. ppm SAMP, TIME SAMPLE I.D. LAB No: SKETCH/SAMPLE LOCATIONS OVM RESULTS LAB SAMPLES RESULTS FIELD HEADSPACE PID (ppm) ANALYSIS SAMPLE (8015) 1110 W DA - 1 DA-1 210 SEE SITE MAP 5)@5/ 1,607

TRAVEL NOTES: CALLOUT: MA ONSITE: 11/21/97

SCALE

FT



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Sample ID: Laboratory Number: Chain of Custody No:	Blagg / AMOCO DA - 1 C553 5576	Project #: Date Reported: Date Sampled: Date Received:	04034-10 11-26-97 11-21-97 11-24-97
Sample Matrix: Preservative: Condition:	Soil Cool Cool and Intact	Date Extracted: Date Analyzed: Analysis Requested:	11-24-97 11-25-97 8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments: Schumacher, John #1 Separator Pit. 5 Pt. Composite.

Deen L. Gienen Analyst Stacy W Sendler
Review

4 C.	ENVIROTECH INC. 5796 U.S. Highway 64-3014 Farmington, New Mexico 87401 (505) 632-0615	ENVIRC 57% U.S. I Farmington, J (505		4 2284 4 2284	↑ 5002 ↑ 54.55	Referencis
(Signature)	Received by: (Signature)				ture)	Relinquished by: (Signature)
(Signature)	Received by: (Signature)	•			ture)	Relinquished by: (Signature)
Signature) Signature) (F21-97 OPOI		11/24/97 0805			ature)	Relinquished by: (Signature)
ED COOK O MARET DUM	SAMPLE E	27				
					1	
5 PT. Composite	/	5012	C553	1110	7/2/11	DA-1
PESER COOL	N Con	Sample Matrix	Lab Number	Sample Time	Sample Date	Sample No./
	o. of tainers		01-15010		Ved	Million
Remarks		No	Chain of Custody Tape			Sampler: (Signature)
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	SHUMBOHER JOHN #1	Schunnet	•	HMO CO	BLAGG/
ANALYSIS/PARAMETERS	7	SEPARATOR PIT	Project Location		١	Client/Project Name
CORD	STODY RE	CHAIN OF CUSTODY RECORD	C			