

District I

P.O. Box 1980, Hobbs, NM

District II

Drawer DD, Artesia, NM 88211

District III

1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

OK
A0113
RECEIVED
OCT - 4 1999

PIT REMEDIATION AND CLOSURE REPORT

Denied 12/9/96

CON. DIV.
DIST. 3

Operator: Amoco Production Company Telephone: (505) - 326-9200

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: VCU #5
Well Name

Location: Unit or Qtr/Qtr Sec P Sec 26 T 28N R 4W County RIO ARriba

Pit Type: Separator Dehydrator Other Blow

Land Type: BLM ✓, State , Fee , Other UNIT AGMT -

Pit Location: Pit dimensions: length 30', width 40', depth 5'
(Attach diagram)

Reference: wellhead X, other

Footage from reference: 160'

Direction from reference: 70 Degrees East North ✓
of
✓ West South

Depth To Ground Water:

(Vertical distance from
contaminants to seasonal
high water elevation of
ground water)

Less than 50 feet (20 points)
50 feet to 99 feet (10 points) 0
Greater than 100 feet (0 Points)

Wellhead Protection Area:

(Less than 200 feet from a private
domestic water source, or; less than
1000 feet from all other water sources)

Yes (20 points) 0
No (0 points)

Distance To Surface Water:

(Horizontal distance to perennial
lakes, ponds, rivers, streams, creeks,
irrigation canals and ditches)

Less than 200 feet (20 points)
200 feet to 1000 feet (10 points) 0
Greater than 1000 feet (0 points)

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____ Date Completed: 9/22/94
9/29

Remediation Method: Excavation ☒
 (Check all appropriate sections)

Approx. cubic yards 222

Landfarmed ☒

Insitu Bioremediation _____

Other _____

Remediation Location: Onsite ☒ Offsite _____
 (ie. landfarmed onsite,
 name and location of
 offsite facility)

General Description Of Remedial Action: _____

Excavation

Ground Water Encountered: No ☒ Yes _____ Depth _____

Final Pit:

Sample location see Attached Documents

Closure Sampling:

(if multiple samples,
 attach sample results
 and diagram of sample
 locations and depths)

Sample depth 4' (NW TOWER)

Sample date 9/22/94 Sample time 1410

Sample Results

Benzene(ppm) ND

Total BTEX(ppm) 0.575

Field headspace(ppm) 251

TPH 427 ppm

Ground Water Sample: Yes _____ No ☒ (If yes, attach sample results)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 9/29/94

SIGNATURE

B. Shaw

PRINTED NAME
 AND TITLE

Buddy D. Shaw
ENVIRONMENTAL COORDINATOR

CLIENT: AMOCO

ENVIROTECH Inc.

PIT NO: A01135796 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0615C.O.C. NO: 3936

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140PAGE No: 1 of 1LOCATION: NAME: Valencia Canyon Pit WELL #: 5 PIT: BLVDDATE STARTED: 9/22/94QUAD/UNIT: P SEC: 26 TWP: 23N RNG: 4W BM: NMPCNTY: P-1 ST: NMDATE FINISHED: 9/22/94

QTR/FOOTAGE:

CONTRACTOR: Carol VaughnENVIRONMENTAL
SPECIALIST: RmySOIL REMEDIATION: EXCAVATION APPROX. 30 FT. x 40 FT. x 5 FT. DEEP.DISPOSAL FACILITY: On-Site Landfill CUBIC YARDAGE: 222LAND USE: Canyon Forest LEASE: Fed. Land = 111-14920FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 160 FEET N 70° W FROM WELLHEAD.DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >100' NEAREST SURFACE WATER: >100'NMOC D RANKING SCORE: 0 NMOC D TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION: Rainwater has collected in the West portion of the pit bottom (4" deep)

10/3/94 Recommended Closure to Carol VAUGHN

FIELD 418.1 CALCULATIONS

SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREQN	DILUTION	READING	CALC. ppm

SCALE



0 10 20 FEET

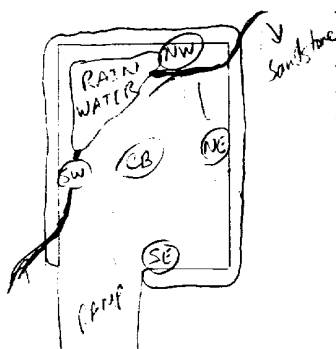
PIT PERIMETER

Surface Flow and
Suspected Ground-
Water Flow Dir.

N

OVM
RESULTS

PIT PROFILE



SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 NE 04'	3.9 Sandstone
2 NW 04'	25.6 Silty Sand
3 SE 04'	2.7 Sandstone
4 SW 04'	2.1 Silty Sand
5 CB 05'	3.3 Sandstone

West 1/2 of Pit Excavation
0'-5' dark brown Silty Sand, MOIST,
FIRM, COHESIVE, No hydrocarbon
odor or staining.

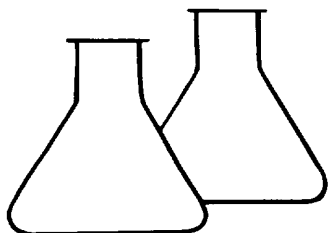
East 1/2 of Pit Excavation and
Pit bottom
Yellowish Green Sandstone, Well lithified.
No hydrocarbon odor.

W E
Pit (small)

TRAVEL NOTES:

CALLOUT:

ONSITE



ENVIROTECH LABS

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:	CB @ 5'	Date Sampled:	09-26-94
Laboratory Number:	7919	Date Received:	09-26-94
Chain of Custody #	3936	Date Analyzed:	09-29-94
Sample Matrix:	Soil	Date Reported:	09-29-94
Preservative:	Cool	Analysis Needed:	TPH
Condition:	Cool and Intact		

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	14	10.0

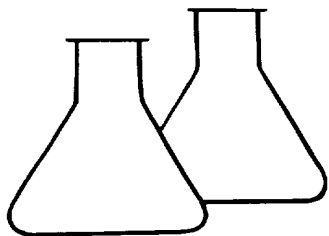
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Comments: Valencia Canyon Unit # 5 Blow Pit A0113
analysis performed with GAC TPH unit

Rex L. Haiffin
Analyst

Morris D. Young
Review



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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	NW @ 4'	Date Sampled:	09-26-94
Laboratory Number:	7920	Date Received:	09-26-94
Chain of Custody #	3936	Date Analyzed:	09-29-94
Sample Matrix:	Soil	Date Reported:	09-29-94
Preservative:	Cool	Analysis Needed:	TPH
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
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Total Petroleum Hydrocarbons	427	10.0

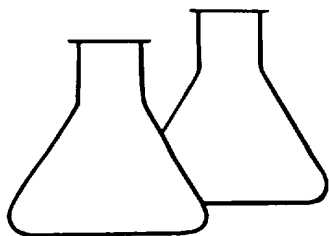
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Comments: Valencia Canyon Unit # 5 Blow Pit A0113
analysis performed with GAC TPH unit

Reed Griffin
Analyst

Maris D. Young
Review



ENVIROTECH LABS

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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	NW @4'	Date Reported:	09-28-94
Laboratory Number:	7920BTEX.	Date Sampled:	09-26-94
Sample Matrix:	Soil	Date Received:	09-26-94
Preservative:	Cool	Date Extracted:	09-26-94
Condition:	Cool & Intact	Date Analyzed:	09-27-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	40.4
Toluene	93	80.8
Ethylbenzene	ND	40.4
p,m-Xylene	130	60.6
o-Xylene	352	61

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	105 %
	Bromofluorobenzene	105 %

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: Valencia Canyon Unit # 5 Blow Pit A0113

Ref L. Gaiffin
Analyst

Marcus D. Young
Review

CHAIN OF CUSTODY RECORD A-0113

Client/Project Name		Project Location		ANALYSIS/PARAMETERS												
Amorcs 92140		Valencia Canyon Unit #5														
Sampler: (Signature)		Chain of Custody Tape No.														
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	1/8"	1/4"	1/2"	3/4"	1"	2"	4"	8"	Remarks		
NW04'	9/22/94	1410	7920	SOC	1	✓	✓							Blow pit		
CS05'	9/22/94	1415	7919	SOC	1	✓								Blow pit		
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time		Date			Time	
[Signature]		9/26/94		0905		[Signature]		9/26/94		0905		[Signature]			9/26/94	
Relinquished by: (Signature)						Received by: (Signature)						Received by: (Signature)				
Relinquished by: (Signature)						Received by: (Signature)						Received by: (Signature)				

ENVIROTECH INC.

5796 U.S. Highway 64-3014

Farmington, New Mexico 87401

(505) 632-0615

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>A0113</u> C.D.C. NO: _____
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>VCU</u>	WELL #: <u>5</u>	PITS: <u>BLOW</u>	DATE STARTED: <u>9/24/97</u>
QUAD/UNIT: <u>P</u> SEC: <u>26</u> TWP: <u>28N</u> RNG: <u>4W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>			DATE FINISHED: _____
QTR/FOOTAGE: <u>SE/4 SE/4</u>		CONTRACTOR: <u>H. VAUGHN</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARMED

LAND USE: RANGE

APPROX. CUBIC YARDAGE: 222

LIFT DEPTH (ft): 6"-12"

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOCB RANKING SCORE: 0 NMOCB TPH CLOSURE STD: 5000 PPM

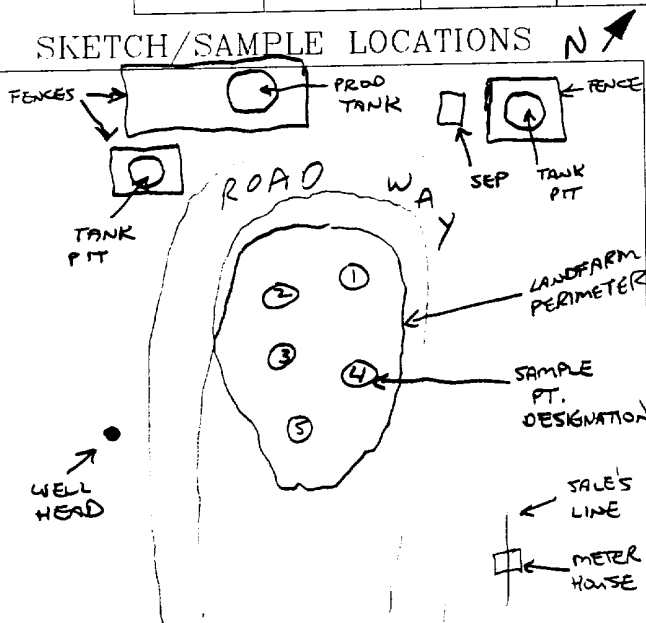
OK. YELL. BROWN TO OK. GRAY SAND w/ SOME BEDROCK (SANDSTONE),
 NOW COHESIVE, SLIGHTLY MOIST, FIRM,

SOIL LOCATED W/IN ROAD LOOP ON WELL PAD. 5 FT. COMPOSITE SAMPLE
 COLLECTED FOR LAB ANALYSIS.

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SKETCH/SAMPLE LOCATIONS



OVM RESULTS

LAB : SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0	LF-1	TPH (8015)	1000	223

SCALE

0 1 FT

TRAVEL NOTES:

CALLOUT: NA

ONSITE: 9/24/97

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

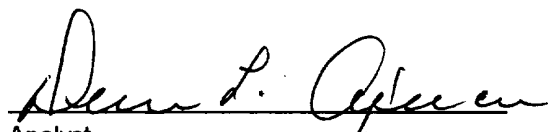
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	09-26-97
Laboratory Number:	C152	Date Sampled:	09-24-97
Chain of Custody No:	5411	Date Received:	09-25-97
Sample Matrix:	Soil	Date Extracted:	09-25-97
Preservative:	Cool	Date Analyzed:	09-25-97
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

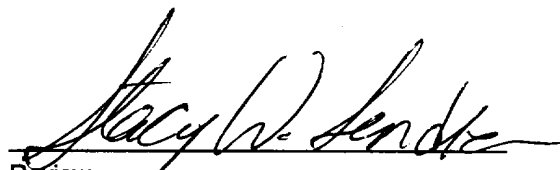
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2.7	0.2
Diesel Range (C10 - C28)	220	0.1
Total Petroleum Hydrocarbons	223	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, July 1992.

Comments: **VCU #5 Landfarm. 5 Pt. Composite.**


Analyst


Review

CHAIN OF CUSTODY RECORD

Client/Project Name BAGG/ Amoco			Project Location LAJOTRAM			ANALYSIS/PARAMETERS					
Sampler: (Signature) Alfon Vtz			Chain of Custody Tape No. 04034-10								
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	Remarks 5 PT. COMPOSITE					
LF-1	9/24/97	1000	C152	SOIL	1						
						Sealed & marked					
Relinquished by: (Signature) Alfon Vtz			Date 9/25/97	Time 0711	Received by: (Signature) Alfon Vtz	Date 9-25-97					Time 07:11
Relinquished by: (Signature)					Received by: (Signature)						
Relinquished by: (Signature)					Received by: (Signature)						

ENVIROTECH INC.

5796 U.S. Highway 64-3014

Farmington, New Mexico 87401

(505) 632-0615