

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

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OIL CON. DIV.
DIST. 3

PIT REMEDIATION AND CLOSURE REPORT

Denial 12/9/96 LF

Operator: Amoco Production Company Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington, New Mexico 87401
Facility Or: VCU # 16
Well Name _____
Location: Unit or Qtr/Qtr Sec P Sec 23 T 28N R 4W County RIO ARRIPE
Pit Type: Separator ___ Dehydrator ___ Other BLOW
Land Type: BLM ☒, State ___, Fee ___, Other UNIT AGMT.

Pit Location: Pit dimensions: length 30', width 30', depth 7'
(Attach diagram) Reference: wellhead ☒, other _____
Footage from reference: 190'
Direction from reference: 30 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)
Greater than 100 feet (0 Points) 0

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)
No (0 points) 0

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)
Greater than 1000 feet (0 points) 0

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____ Date Completed: 9/23/94

Remediation Method: Excavation ☒ Approx. cubic yards 230
 (Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____

Other _____

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

General Description Of Remedial Action: _____

Excavation Bedrock Bottom

Ground Water Encountered: No ☒ Yes _____ Depth _____

**Final Pit:
Closure Sampling:**

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

Sample location see Attached Documents

Sample depth 7' (PIT BOTTOM)

Sample date 9/21/94 Sample time 1425

Sample Results

Benzene(ppm) ND

Total BTEX(ppm) 0.818

Field headspace(ppm) 420

TPH 205 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 9/23/94

SIGNATURE

B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
ENVIRONMENTAL COORDINATOR

FIT NO: A0105

C.O.C. NO: 3924

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140

PAGE No: 1 of 1

LOCATION: NAME: Valencia Congo Unit WELL #: 16 PIT: Blow

DATE STARTED: 9/21/94

DATE FINISHED: 9/21/94

QUAD/UNIT: P SEC: 23 TWP: 28N RNG: 4W BM: NMPM CNTY: RA ST: NM

ENVIRONMENTAL
SPECIALIST: Rmy

QTR/FOOTAGE: _____ CONTRACTOR: Carol Vaughn

SOIL REMEDIATION: EXCAVATION APPROX. 30 FT. x 30 FT. x 7 FT. DEEP.

DISPOSAL FACILITY: On-Site Landfarm CUBIC YARDAGE: 230

LAND USE: Carson National Forest LEASE: Federal Lease = NM-14917

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 190 FEET S30°W FROM WELLHEAD.

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

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

SOIL AND EXCAVATION DESCRIPTION: Pit has dried mud-cracks in bottom From Recent Rain.

Sandstone in bottom of pit is practical extent of excavation.

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

SURFACE FLOW AND
Suspected Groundwater
gradient

PIT PERIMETER

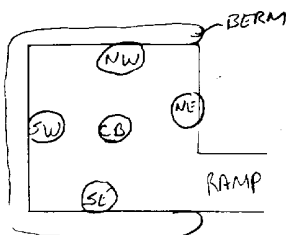
OVM RESULTS

PIT PROFILE

[illegible]

0'-7' Reddish brown. Sandy Silty earth
Clay, Interbedded with thin
gray shale and sandstone layers.
FIRM TO HARD, MOIST, CUMULATIVE.
No Visible Contamination, No
hydrocarbon odor.

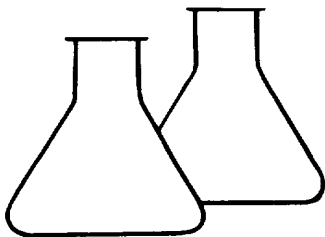
7' Sandstone: Gray, Poorly Consolidated
FIRM, slight hydrocarbon
odor.



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 @ 7'	Date Sampled:	09-21-94
Laboratory Number:	7900	Date Received:	09-21-94
Sample Matrix:	Soil	Date Analyzed:	09-22-94
Preservative:	Cool	Date Reported:	09-23-94
Condition:	Cool and Intact	Analysis Needed:	TPH

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	205	10.0

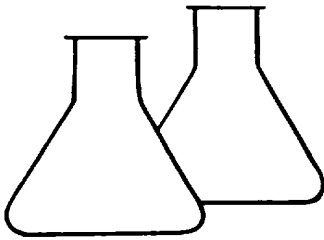
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Comments: Valencia Canyon Unit # 16 Blow Pit A0105

Rex L. Griffin
Analyst

Morris D. Young
Review



ENVIROTECH LABS

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:	CB @ 7'	Date Reported:	09-23-94
Laboratory Number:	7900BTEX.	Date Sampled:	09-21-94
Sample Matrix:	Soil	Date Received:	09-21-94
Preservative:	Cool	Date Extracted:	09-22-94
Condition:	Cool & Intact	Date Analyzed:	09-22-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
-----	-----	-----
Benzene	ND	13.3
Toluene	86	19.9
thylbenzene	57	19.9
,m-Xylene	290	19.9
o-Xylene	385	19.9

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	120 %
	Bromofluorobenzene	117 %

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 # 16 Blow Pit A0105

Rex L. Jauffin
Analyst

Mavis D. Young
Review

CLIENT: AMOCOBLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199LOCATION NO: A0105

C.D.C. NO: _____

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: VCU WELL #: 16 PITS: BLOW
QUAD/UNIT: P SEC: 23 TWP: 29N RNG: 4W PM: NM CNTY: RA ST: NM
QTP/FOOTAGE: _____ CONTRACTOR: _____DATE STARTED: 11-13-97
DATE FINISHED: _____ENVIRONMENTAL
SPECIALIST: 2CE

SOIL REMEDIATION:

REMEDIATION SYSTEM: LANDFARMAPPROX. CUBIC YARDAGE: 230LAND USE: RANGE

LIFT DEPTH (ft): _____

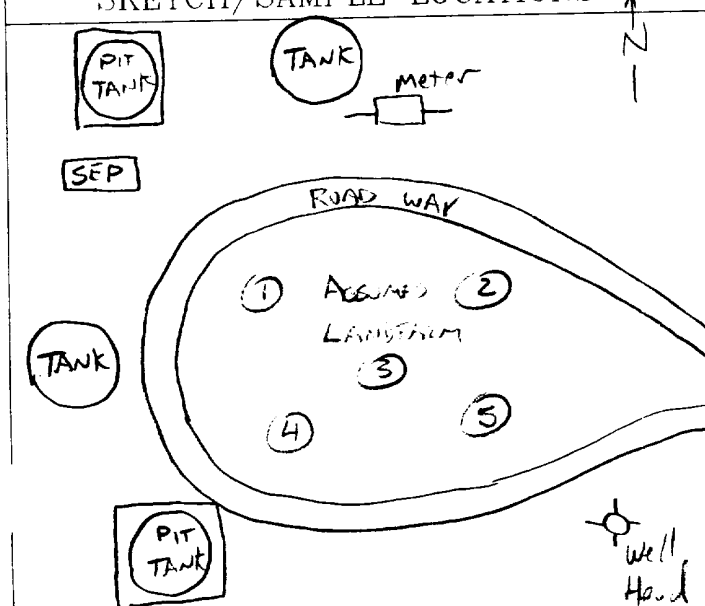
FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFACE WATER: >1000
NMOCB RANKING SCORE: 0 NMOCB TPH CLOSURE STD: 5000 PPM

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1135	LF-1	1938	5.0	20.0	4x	22	88

SKETCH/SAMPLE LOCATIONS



OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	0.0				

SCALE

0 FT

TRAVEL NOTES:

CALLOUT: _____

ONSITE: _____

BLAGG ENGINEERING, INC.

P.O. Box 87, Bloomfield, New Mexico 87413

Phone: (505)632-1199 Fax: (505)632-3903

**FIELD MODIFIED EPA METHOD 418.1
TOTAL PETROLEUM HYDROCARBONS**

Client:	AMOCO	Project #:	
Sample ID:	Landfarm	Date Analyzed:	11-19-97
Project Location:	VCU # 16	Date Reported:	11-19-97
Laboratory Number:	TPH-1938	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
-----	-----	-----
Total Recoverable Petroleum Hydrocarbons	88	20

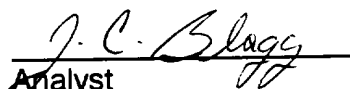
ND = Not Detectable at stated detection limits.

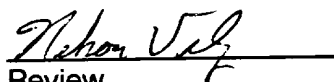
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	-----	-----	-----
	608	568	6.80

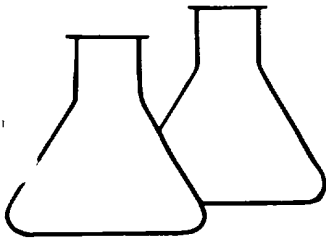
*Administrative Acceptance limits set at 30%.

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

Comments: Landfarm Composite Sample


Analyst


Review



ENVIROTECH LABS

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:	CB @ 7'	Date Reported:	09-23-94
Laboratory Number:	7900BTEX.	Date Sampled:	09-21-94
Sample Matrix:	Soil	Date Received:	09-21-94
Preservative:	Cool	Date Extracted:	09-22-94
Condition:	Cool & Intact	Date Analyzed:	09-22-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
-----	-----	-----
Benzene	ND	13.3
Toluene	86	19.9
hylbenzene	57	19.9
,m-Xylene	290	19.9
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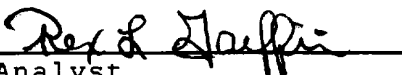
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	120 %
	Bromofluorobenzene	117 %

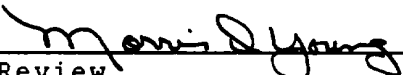
Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, July 1992

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 # 16 Blow Pit A0105


Analyst


Review