

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

OK
A0108
SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

OCT - 4 1999

OIL CON. DIV.
DIST. 3

PIT REMEDIATION AND CLOSURE REPORT

Denial 12/7/96

Operator: Amoco Production Company Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington, New Mexico 87401
Facility Or: VCU #45A
Well Name
Location: Unit or Qtr/Qtr Sec 0 Sec 34 T28N R 4W County RIO ARRIBA
Pit Type: Separator Dehydrator Other Blow
Land Type: BLM ☒, State ☐, Fee ☐, other UNIT AGMT -

Pit Location: Pit dimensions: length 18', width 15', depth 6'
(Attach diagram) Reference: wellhead ☒, other ☐
Footage from reference: 100'
Direction from reference: 90 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: 9/27/94

Remediation Method: Excavation ☒
(Check all appropriate sections) Landfarmed ☒

Approx. cubic yards 60

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:

Closure Sampling:

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

Sample location see Attached Documents

Sample depth 5' (WEST SIDEWALK)

Sample date 9/23/94

Sample time 1330

Sample Results

Benzene(ppm) ND

Total BTEX(ppm) 0.734

Field headspace(ppm) 707

TPH 1170

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

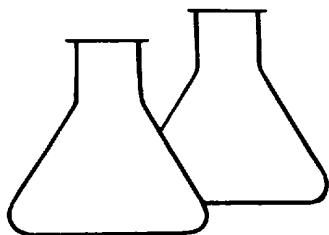
DATE 9/27/94

SIGNATURE

B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Environmental Coordinator



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:	W @ 5'	Date Sampled:	09-26-94
Laboratory Number:	7921	Date Received:	09-26-94
Chain of Custody #	3931	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	1170	10.0

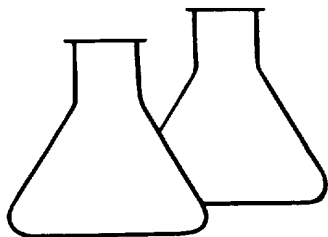
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Comments: Valencia Canyon Unit # 45A Blow Pit A0108
analysis performed with GAC TPH unit

Rex L. Griffin
Analyst

Morris D. Young
Review



ENVIROTECH LABS

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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	W @5'	Date Reported:	09-28-94
Laboratory Number:	7921BTEX.	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	38.4
oluene	175	76.8
ethylbenzene	ND	38.4
p,m-Xylene	280	57.6
o-Xylene	279	58

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	133 %
	Bromofluorobenzene	106 %

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

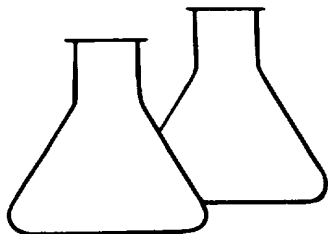
Method 8020, Aromatic Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Valencia Canyon Unit # 45A Blow Pit A0108
Excessive surrogate recovery due to coelution

Rex D. Griffin
Analyst

Morris D. Young
Review



ENVIROTECH LABS

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EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	CB @ 6'	Date Sampled:	09-26-94
Laboratory Number:	7922	Date Received:	09-26-94
Chain of Custody #	3931	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	620	10.0

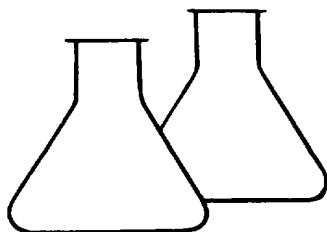
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Comments: Valencia Canyon Unit # 45A A0108
analysis performed with GAC TPH unit

Rep. & Hoffman
Analyst

M. J. Young
Review



ENVIROTECH LABS

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EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	CB @6'	Date Reported:	09-28-94
Laboratory Number:	7922BTEX.	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	38.0
oluene	172	75.9
thylbenzene	ND	38.0
p,m-Xylene	1410	56.9
o-Xylene	1000	57

SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	109 %
	Bromofluorobenzene	130 %

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 # 45A A0108
Excessive surrogate recovery due to coelution

Reid D. Hoffman
Analyst

Maris D. Young
Review

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>A0108</u> C.D.C. NO: _____
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: <u>VCU</u>	WELL #: <u>45A</u>	PITS: <u>Blow</u>	DATE STARTED: <u>11-17-97</u>
QUAD/UNIT: <u>0</u> SEC: <u>34</u> TWP: <u>28N</u> RNG: <u>4W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>			DATE FINISHED: _____
DTP/FOOTAGE: _____		CONTRACTOR: _____	
			ENVIRONMENTAL SPECIALIST: <u>JC3</u>

SOIL REMEDIATION:

REMEDIATION SYSTEM: LANDFARM APPROX. CUBIC YARDAGE: 60
 LAND USE: RANGE LIFT DEPTH (ft): _____

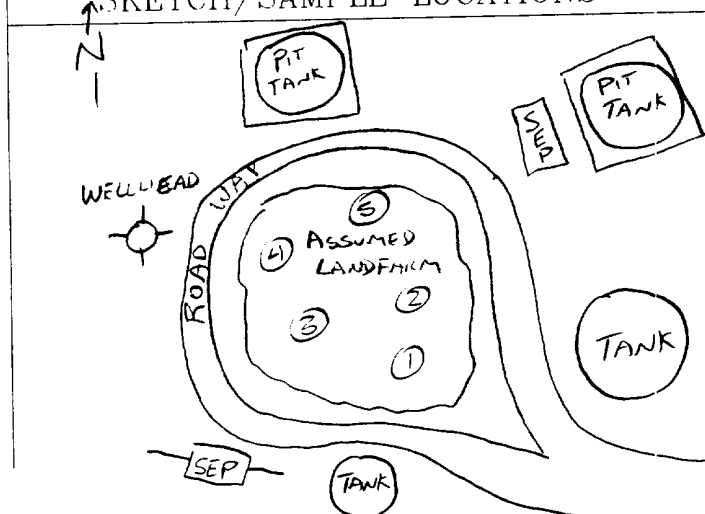
FIELD NOTES & REMARKS:

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

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1456	LF-1	1925	5.0	20.0	4x	54	216

SKETCH/SAMPLE LOCATIONS



OVM RESULTS

LAB SAMPLES

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

SCALE



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
Sample ID: Landfarm
Project Location: VCU # 45A
Laboratory Number: TPH-1925

Project #:
Date Analyzed: 11-19-97
Date Reported: 11-19-97
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	220	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

BLAGG ENGINEERING, INC.

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

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

Field TPH-Worksheet

Max Characters:

Client:

AMOCO

Project #:

Sample ID:

Landfarm

Date Analyzed:

11-19-97

Project Location:

VCU # 45A

Date Reported:

11-19-97

Laboratory Number:

TPH-1925

Sample Matrix:

Soil

Sample Weight:

5.00 grams

Volume Freon:

20.00 mL

Dilution Factor:

1 (unitless)

TPH Reading:

54 mg/kg

TPH Result:

216.0 mg/kg

Reported TPH Result:

220 mg/kg

Actual Detection Limit:

20.0 mg/kg

Reported Detection Limit:

20 mg/kg

QA/QC:

Original
TPH mg/kg

Duplicate
TPH mg/kg

%
Diff.

608

568

6.80

Comments:

*****Max Characters*****

Comments:

Landfarm Composite Sample