

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD, Arroyo, NM 88211
District III
100 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

PIT REMEDIATION AND CLOSURE REPORT

Pit# A0077

Operator: Amoco Production Company Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington, New Mexico 87401
Facility or: JACK FROST "B" #2E
Well Name
Location: Unit or Qtr/Qtr Sec H Sec 27 T 27N R 10W County SAN JUAN
Pit Type: Separator Dehydrator Other BLOW
Land Type: BLM , State , Fee , Other

Pit Location: Pit dimensions: length 35, width 40, depth 13
(Attach diagram)
Denny Reference: wellhead , other
DEPUTY OIL & GAS INSPECTOR
Distance from reference: 250'
DEC 11 9 1996
Direction from reference: 15 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: 6 July 1994

Remediation Method: Excavation ☒
(Check all appropriate sections)

Approx. cubic yards 674

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 13'

Sample date 13' 6 July 1994 Sample time 12:25

Sample Results

Benzene(ppm) _____

Total BTEX(ppm) _____

Field headspace(ppm) 60

TPH 2100

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 6 July 1994

SIGNATURE B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Environmental Coordinator

RW

results copied to Johnny 7/12/94

CLIENT: Amoco

ENVIROTECH Inc.

PIT No: A0077

5796 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0615

C.O.C. No: 3798

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 22140

PAGE No: 1 of 1

LOCATION: NAME: Jack Frost "B" WELL # 2E PIT: Blow
QUAD/UNIT: H SEC: 27 TWP: 27N RNG: 12W BM: NM CNTY: SJ STNM
QTR/FOOTAGE: SE/4 NE/4 CONTRACTOR: EPC

DATE STARTED: _____
DATE FINISHED: 6 Jul 94

ENVIRONMENTAL
SPECIALIST: FM

SOIL REMEDIATION: EXCAVATION APPROX. 35 FT. x 40 FT. x 13 FT. DEEP.
DISPOSAL FACILITY: LANDFARM - ON SITE CUBIC YARDAGE: 674
LAND USE: RANGE LEASE: 5F-077951A

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 150' FEET SW OF S FROM WELLHEAD.

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

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

SOIL AND EXCAVATION DESCRIPTION: yellow/brown - Silty Sand - slightly moist to moist @ 9' off SW side encountered Brown Shale
@ TD - Brown-Green Shale
(13')

FIELD 418.1 CALCULATIONS

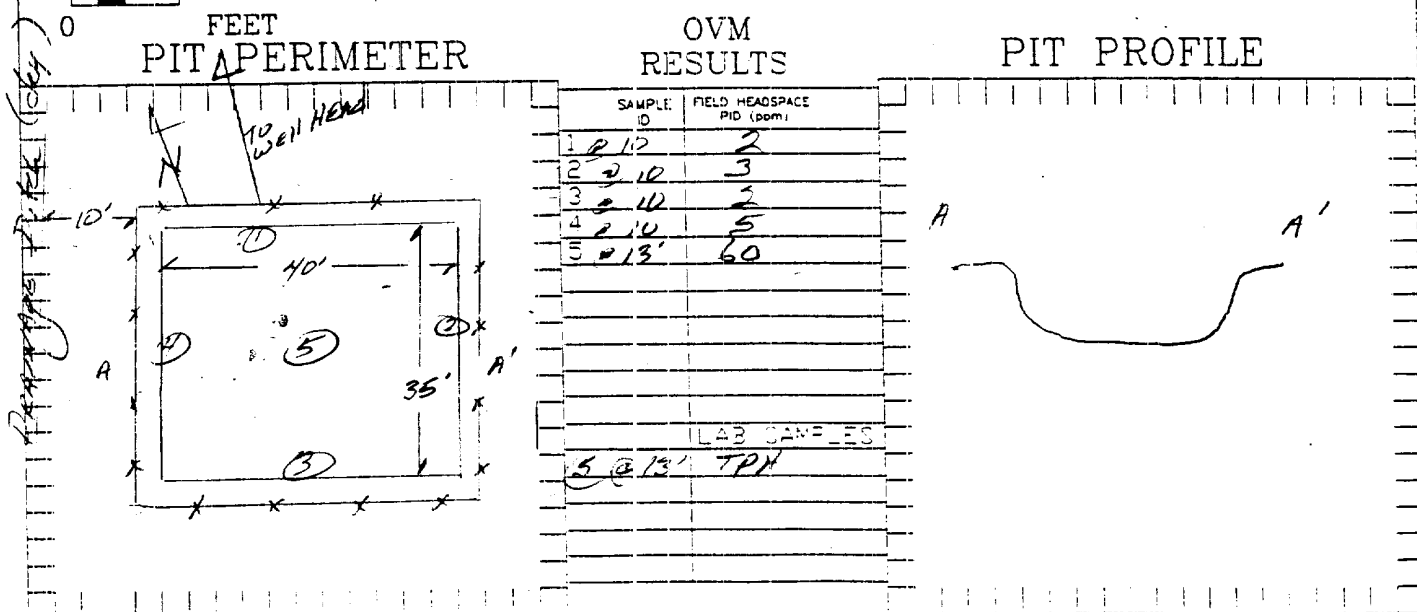
SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON DILUTION	READING	CALC. ppm

SCALE

0 FEET
PIT PERIMETER

OVM
RESULTS

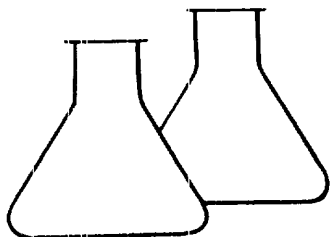
PIT PROFILE



TRAVEL NOTES

TAILOUT: _____

DATE: _____



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401
PHONE: (505) 632-0515 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	5 @ 13'	Date Sampled:	07-06-94
Laboratory Number:	7699	Date Received:	07-06-94
Sample Matrix:	Soil	Date Analyzed:	07-09-94
Preservative:	Cool	Date Reported:	07-09-94
Condition:	Cool and Intact	Analysis Needed:	TPH

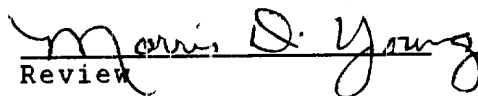
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	2100	30.0

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: Jack Frost "B" #2E Blow Pit A0077


Analyst


Review

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. 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

PIT REMEDIATION AND CLOSURE REPORT

Pit # A0077

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

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: JACK Frost "B" # 2E
Well Name

Location: Unit or Qtr/Qtr Sec H Sec 27 T 27N R 12W County SAN JUAN

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

Land Type: BLM ☒, State ☐, Fee ☐, Other ☐

Pit Location: Pit dimensions: length 15, width 15, depth 8
(Attach diagram)

Reference: wellhead ☒, other ☐

Footage from reference: 120

Direction from reference: 60 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: 8 July 1994

Remediation Method: Excavation ☒
(Check all appropriate sections)

Approx. cubic yards 67

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 6' + 8'

Sample date 8 July 1994 Sample time 10¹⁵; 10³⁵

Sample Results

@ 6' Benzene(ppm) ND @ 8' ND

@ 6' Total BTEX(ppm) 0.896 @ 8' 3.276

@ 6' Field headspace(ppm) 568 @ 8' 434

@ 8' TPH 1590 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 8 July 1994

SIGNATURE

B.D. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Environmental Coordinator

Copied EPC 7/18/94

CLIENT: Amoco ENVIROTECH Inc. PIT NO: A0077
5796 US HWY. 64, FARMINGTON, NM 87401 C.E.C. NO: 3799
(505) 632-0615

FIELD REPORT: CLOSURE VERIFICATION JCB No: 92140
PAGE No: 1 of 1

LOCATION: NAME: JACK FOOT "B" WELL # 2E PIT: SEP. 1 DATE STARTED: 7
QUAD/UNIT: H SEC. 27 TWP. 27N RNG. 10W BM. NM CNTY. 51ST NW DATE FINISHED: 8 July 94
QTR/FOOTAGE: SE/4 NE/4 CONTRACTOR: EPC ENVIRONMENTAL SPECIALIST: FM

SOIL REMEDIATION: EXCAVATION APPROX. 15 FT. x 15 FT. x 3 FT. DEEP.
DISPOSAL FACILITY: LAND FARM ON SITE CUBIC YARDAGE: 67
LAND USE: RANGE LEASE: SE-077951A

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 120 FEET 60° E 25 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: Soil is yellow-brown silty sand (3'-7')
Brown staining from 3' to 7' on East, West, and South walls
Gray shale from 7' to TD @ 8'
* UNABLE TO EXCAVATE FURTHER, due to congestion (i.e. AUTOMATION LINES & PIPELINES)

FIELD 418.1 CALCULATIONS

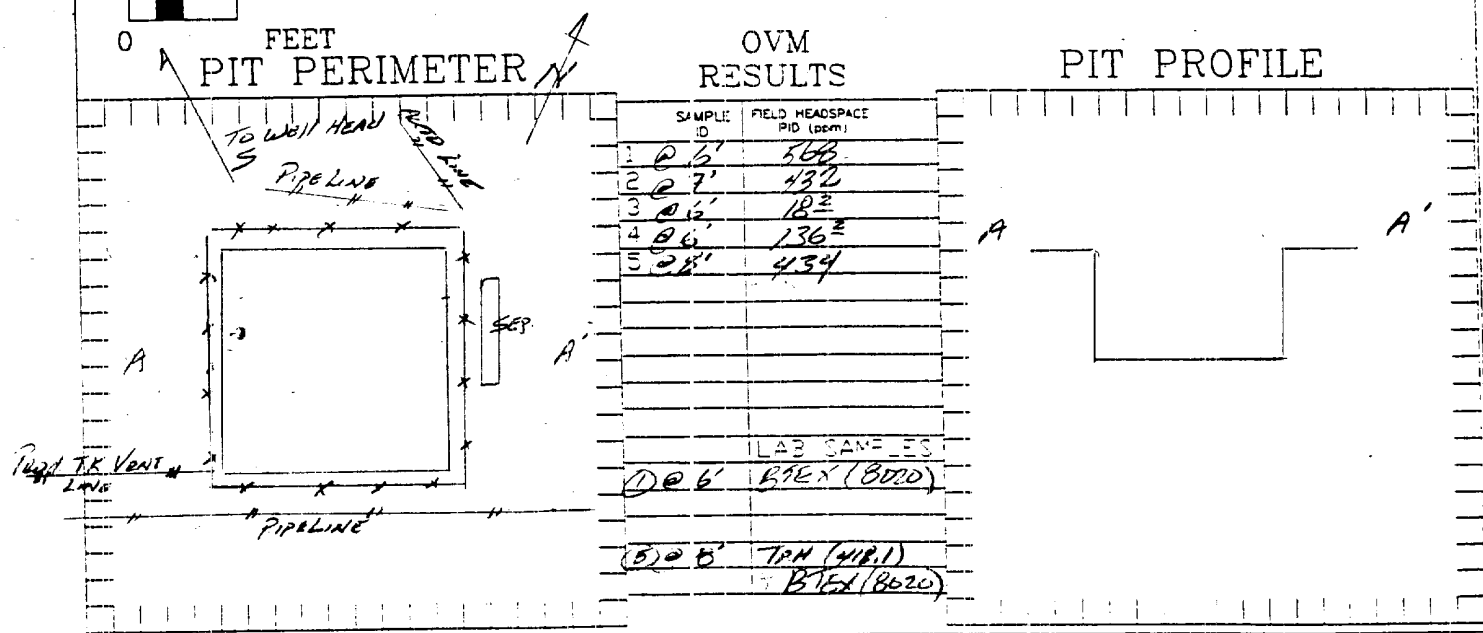
SAMPLE I.D.	LAB No:	WEIGHT (g)	ML. FREON DILUTION	READING	CALC. ppm

SCALE
0 [] FEET

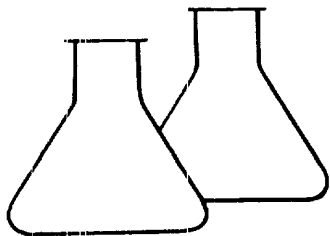
PIT PERIMETER

OVN RESULTS

PIT PROFILE



TRAVEL NOTES CALLOUT: DATE:



ENVIROTECH LABS

5796 US HIGHWAY 64-3014 • FARMINGTON, NEW MEXICO 87401

PHONE: (505) 632-0515 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

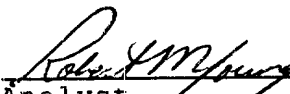
Client:	Amoco	Project #:	92140
Sample ID:	5 @ 8'	Date Sampled:	07-08-94
Laboratory Number:	7705	Date Received:	07-08-94
Sample Matrix:	Soil	Date Analyzed:	07-09-94
Preservative:	Cool	Date Reported:	07-09-94
Condition:	Cool and Intact	Analysis Needed:	TPH

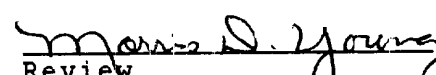
Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
-----	-----	-----
Total Petroleum Hydrocarbons	1590	30.0

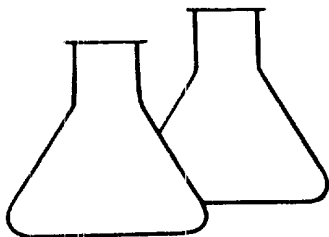
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Comments: Jack Frost "B" #2E Separator Pit 1 A0077


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:	5 @ 8'	Date Reported:	07-15-94
Laboratory Number:	7705	Date Sampled:	07-08-94
Sample Matrix:	Soil	Date Received:	07-08-94
Preservative:	Cool	Date Extracted:	07-08-94
Condition:	Cool & Intact	Date Analyzed:	07-14-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	27.0
Toluene	136	33.8
Ethylbenzene	1530	20.3
p,m-Xylene	1030	27.0
o-Xylene	580	20.3

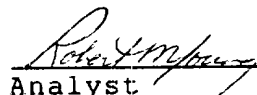
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Trifluorotoluene	115 %
	Bromofluorobenzene	119 %

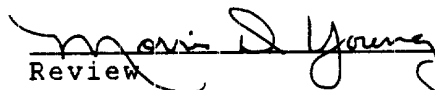
Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, July 1992

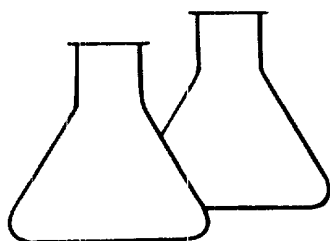
Method 8020, Aromatic Volatile Organics, Test Methods
for Evaluating Solid Waste, SW-846, USEPA, Sept. 1986.

ND - Parameter not detected at the stated detection limit.

Comments: Jack Frost "B" #2E Separator Pit #1 A0077.


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:	1 @ 6'	Date Reported:	07-15-94
Laboratory Number:	7704	Date Sampled:	07-08-94
Sample Matrix:	Soil	Date Received:	07-08-94
Preservative:	Cool	Date Extracted:	07-08-94
Condition:	Cool & Intact	Date Analyzed:	07-14-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
-----	-----	-----
Benzene	ND	26.8
Toluene	128	33.5
Ethylbenzene	46	20.1
p,m-Xylene	399	26.8
o-Xylene	323	20.1

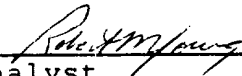
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	115 %
	Bromofluorobenzene	86 %

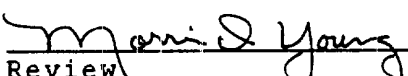
Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, July 1992

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: Jack Frost "B" #2E Separator Pit #1 A0077.


Analyst


Review

DISTRICT I

() Box 1980, Hobbs, NM

DISTRICT II

() Drawer DD, Aztec, NM 88211

DISTRICT III

() 10 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

PIT REMEDIATION AND CLOSURE REPORT

A0077

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

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: JACK Frost "B" # 2E
Well Name

Location: Unit or Qtr/Qtr Sec H Sec 27 T 23N R 10W County SAN JUAN

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

Land Type: BLM ☒, State ☐, Fee ☐, Other ☐

Pit Location: Pit dimensions: length 20, width 20, depth 13
(Attach diagram)

Reference: wellhead ☒, other ☐

Footage from reference: 145

Direction from reference: 20 Degrees ☐ East North ☐
of
☒ West South ☒

Depth To Ground Water: Less than 50 feet (20 points)
(Vertical distance from 50 feet to 99 feet (10 points)
contaminants to seasonal Greater than 100 feet (0 Points) 0
high water elevation of
ground water)

Wellhead Protection Area: Yes (20 points)
(Less than 200 feet from a private No (0 points) 0
domestic water source, or; less than
1000 feet from all other water sources)

Distance To Surface Water: Less than 200 feet (20 points)
(Horizontal distance to perennial 200 feet to 1000 feet (10 points) 0
lakes, ponds, rivers, streams, creeks, Greater than 1000 feet (0 points)
irrigation canals and ditches)

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____ Date Completed: 8 July 1994

Remediation Method: Excavation ☒ Approx. cubic yards 193
(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

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 11' and 13'

Sample date 8 July 1994 Sample time 9³⁵; 9⁵⁵

Sample Results

@ 11' Benzene(ppm) 0.033

@ 11' Total BTEX(ppm) 1.512

@ 11' Field headspace(ppm) 960 @ 13' 50.4

@ 13' TPH 50 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 8 July 1994

SIGNATURE B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Environmental Coordinator

Copied EPC 7/18/94

CLIENT: Amoco

ENVIROTECH Inc.

PIT NO: A00775796 US HWY. 64, FARMINGTON, NM 87401
(505) 632-0615C.E.C. NO: 3799

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140PAGE No: 1 of 1LOCATION: NAME: JACK Frost "B" WELL #: 2E PIT: SEP ②
QUAD/UNIT: H SEC: 27 TWP: 27N RNG: 10W BM: NM CNTY 35 STN 14
QTR/FOOTAGE: SE/4 NE/4 CONTRACTOR: EPCDATE STARTED: _____
DATE FINISHED: 8 July 94
ENVIRONMENTAL SPECIALIST: _____SOIL REMEDIATION: EXCAVATION APPROX. 20 FT. x 20 FT. x 13 FT. DEEP.DISPOSAL FACILITY: LAND FARM - DN Site CUBIC YARDAGE: 193LAND USE: RANGE LEASE: SF-077951AFIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 145 FEET 20° W of S FROM WELLHEAD.DEPTH TO GROUNDWATER: 7100 NEAREST WATER SOURCE: 71000 NEAREST SURFACE WATER: 71000NMOC RANKING SCORE: 0 NMOC TPH CLOSURE: STD: 5000 ppmSOIL AND EXCAVATION DESCRIPTION: Soil is yellow-brown slightly moist, Silty Sand
staining on North & West walls from 5'.Gray shale @ TD = 13'* UNABLE TO EXCAVATE North, South, and West, due to congestion (i.e. pipelines further)

FIELD 418.1 CALCULATIONS

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

SCALE



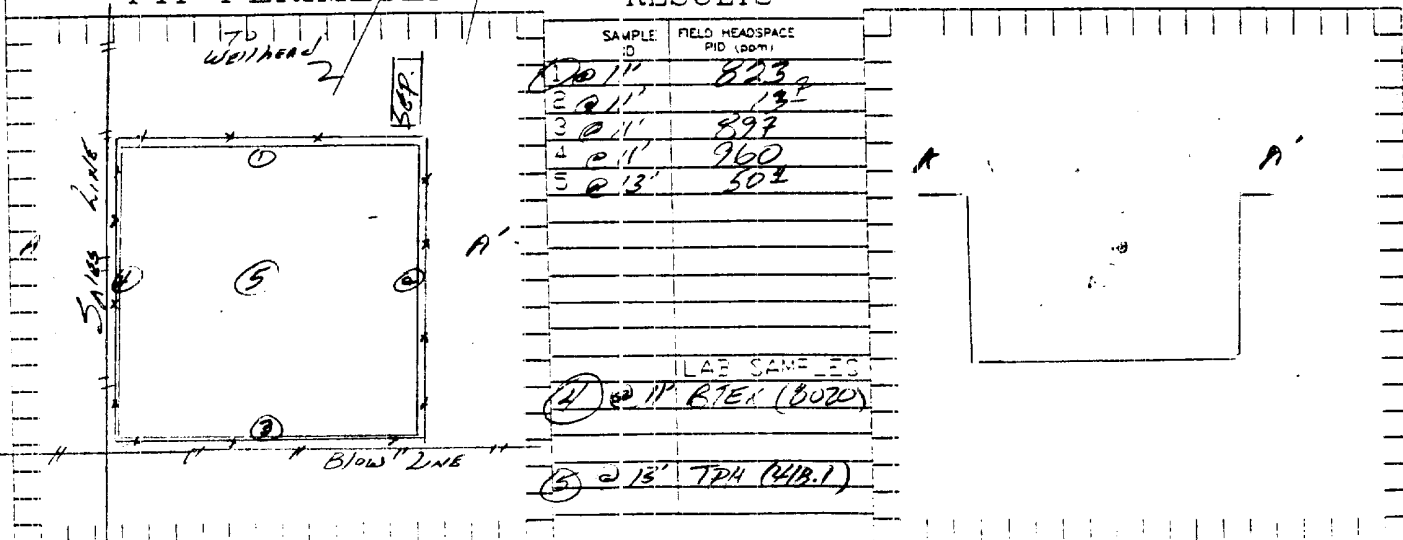
0

FEET

PIT PERIMETER

OVM RESULTS

PIT PROFILE

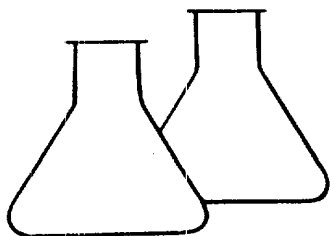


TRAVEL NOTES

CALCULATIONS

DATE

3



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:	5 @ 13'	Date Sampled:	07-08-94
Laboratory Number:	7703	Date Received:	07-08-94
Sample Matrix:	Soil	Date Analyzed:	07-09-94
Preservative:	Cool	Date Reported:	07-09-94
Condition:	Cool and Intact	Analysis Needed:	TPH

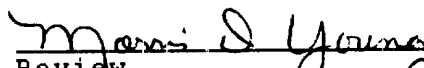
Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	50	30.0

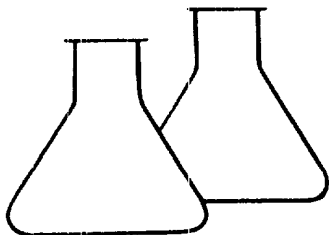
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Comments: Jack Frost "B" #2E Separator Pit 2 A0077


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:	4 @ 11'	Date Reported:	07-15-94
Laboratory Number:	7702	Date Sampled:	07-08-94
Sample Matrix:	Soil	Date Received:	07-08-94
Preservative:	Cool	Date Extracted:	07-08-94
Condition:	Cool & Intact	Date Analyzed:	07-14-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
-----	-----	-----
Benzene	33	27.1
Toluene	296	33.9
Ethylbenzene	73	20.3
p,m-Xylene	710	27.1
o-Xylene	400	20.3

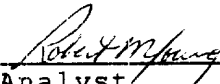
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Trifluorotoluene	121 %
	Bromofluorobenzene	89 %

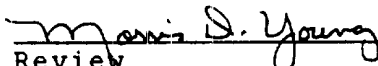
Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, July 1992

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: Jack Frost "B" #2E Separator Pit #2 A0077.


Analyst


Review

