

~~DISTRICT I~~

P.O. Box 1980, Hobbs, NM

~~DISTRICT II~~

P.O. Drawer 100, Artesia, NM 88212

~~DISTRICT III~~

1000 Rio Belknap Rd., Aztec, NM 87412
DEPUTY OIL & GAS INSPECTOR

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

JAN 11 3

PIT REMEDIATION AND CLOSURE REPORT

A0064

Operator: Amoco Production Company Telephone: (505) - 326-9200
Address: 200 Amoco Court, Farmington, New Mexico 87401
Facility or: CM Morris Com AIE
Well Name
Location: Unit or Qtr/Qtr Sec E Sec 13 T 27N R 10W County San Juan
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: BLM ☒ State ☐ Fee ☐ Other ☐ Com. Abmt.

Pit Location: Pit dimensions: length 13', width 19', depth 7'
(Attach diagram) Reference: wellhead ☒, other ☐
Footage from reference: 70
Direction from reference: 65 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: 6/22/94

Remediation Method: Excavation ☒ Approx. cubic yards 64

(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 7'

Sample date 6/22/94 Sample time 920

Sample Results

Benzene(ppm) ND

Total BTEX(ppm) 8.976

Field headspace(ppm) 706

TPH 348 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

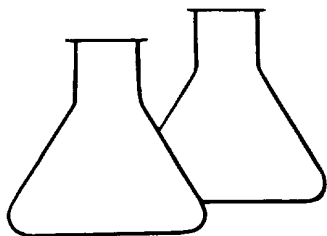
DATE 6/22/94

SIGNATURE B. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Environmental Coordinator

6/25/90



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

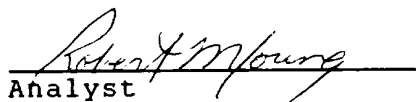
Client:	Amoco	Project #:	92140
Sample ID:	5 @ 7'	Date Sampled:	06-22-94
Laboratory Number:	7646	Date Received:	06-22-94
Sample Matrix:	Soil	Date Analyzed:	06-26-94
Preservative:	Cool	Date Reported:	06-30-94
Condition:	Cool and Intact	Analysis Needed:	TPH

Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	348	30.0

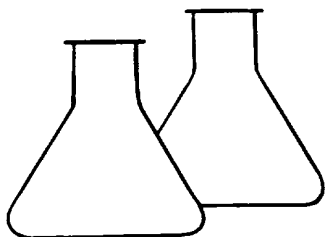
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Comments: CM Morris Com A1E Separator Pit A0064


Analyst


Review



ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	5 @ 7'	Date Reported:	07-01-94
Laboratory Number:	7646	Date Sampled:	06-22-94
Sample Matrix:	Soil	Date Received:	06-22-94
Preservative:	Cool	Date Extracted:	06-26-94
Condition:	Cool & Intact	Date Analyzed:	06-28-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	13.6
Toluene	411	13.6
Ethylbenzene	175	13.6
p,m-Xylene	6800	440.4
o-Xylene	1590	14

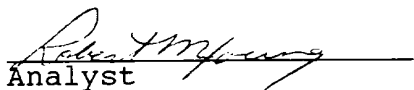
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	Bromofluorobenzene	86 %

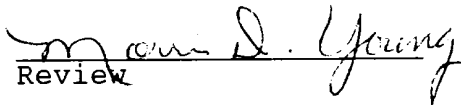
Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, July 1992

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: CM Morris Com A1E Separator Pit A0064


Analyst


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AND 1 COPY TO
SANTA FE OFFICE

A0064

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____ Date Completed: 6/22/94

Remediation Method: Excavation ☒ Approx. cubic yards 33
(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 9'
Sample date 6/22/94 Sample time 950

Sample Results

Benzene(ppm) ND
Total BTEX(ppm) 40.15
Field headspace(ppm) 645
TPH 1430 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 6/22/94

SIGNATURE Buddy D. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
ENVIRONMENTAL COORDINATOR

results copied to Johnny 7/6/94

CLIENT Amoco

ENVIROTECH Inc.

PIT NO A0064

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

DEC NO 3764

FIELD REPORT: CLOSURE VERIFICATION

JOB No: 92140

PAGE No: 1 of 1

LOCATION: NAME: CM Morris Com WELL #: A/E PIT: prod.

DATE STARTED: 6/22/94

QUAD/UNIT: E SEC: 13 TWP: 27N RNG: 10W BM: NM CNTY: ST NM

DATE FINISHED: 6/22/94

QTR/FOOTAGE SW/4 NW/4 CONTRACTOR: EPC

ENVIRONMENTAL SPECIALIST: CLG

SOIL REMEDIATION: EXCAVATION APPROX. 10 FT. x 10 FT. x 9 FT. DEEP.

DISPOSAL FACILITY: landfilled on-site CUBIC YARDAGE: 33

LAND USE: crop LEASE: 94-000445

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 100 FEET S60E FROM WELLHEAD.

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

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

SOIL AND EXCAVATION DESCRIPTION:

excavation bottom - rock (black stained),
north side can't continue further due to tank, east can't continue due to tank
soil - fine sand, slightly moist, cohesive, odor

FIELD DATA CALCULATIONS

SAMPLE ID: LAB No: WEIGHT (g) mL FREQN DILUTION READING CALCD. ppm

SCALE



0

FEET

PIT PERIMETER



OVM RESULTS

PIT PROFILE

SAMPLE FIELD HEADSPACE
ID. P.D. ppm

1	7'	674
2	7'	402
3	7'	33
4	7'	2
5	9'	645

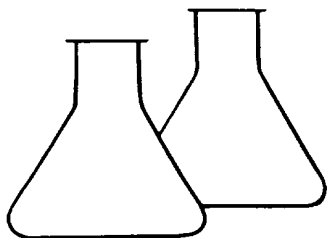
LAB SAMPLED

15 & 9' for TPH & PCB
and BTEX 2000

TRAVEL NOTES

DATE: 6/22/94

DATE: 6/22/94



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

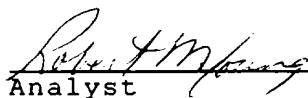
Client:	Amoco	Project #:	92140
Sample ID:	5 @ 9'	Date Sampled:	06-22-94
Laboratory Number:	7647	Date Received:	06-22-94
Sample Matrix:	Soil	Date Analyzed:	06-26-94
Preservative:	Cool	Date Reported:	06-30-94
Condition:	Cool and Intact	Analysis Needed:	TPH

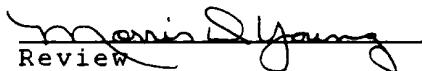
Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	1430	30.0

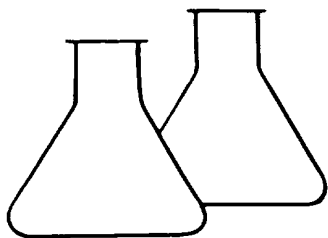
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Comments: CM Morris Com A1E Production Pit A0064


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 @ 9'	Date Reported:	07-01-94
Laboratory Number:	7647	Date Sampled:	06-22-94
Sample Matrix:	Soil	Date Received:	06-22-94
Preservative:	Cool	Date Extracted:	06-26-94
Condition:	Cool & Intact	Date Analyzed:	06-28-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
-----	-----	-----
Benzene	ND	13.6
Toluene	4550	13.6
Ethylbenzene	990	13.6
p,m-Xylene	30000	441.3
o-Xylene	4610	14

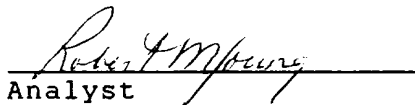
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Bromofluorobenzene	121 %

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: CM Morris Com A1E Prod Pit A0064


Analyst


Review

RANKING SCORE (TOTAL POINTS): 6

Date Remediation Started: _____ Date Completed: 6/22/94

Remediation Method: Excavation ☒ Approx. cubic yards 30
(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 8'

Sample date 6/22/94 Sample time 1025

Sample Results

Benzene(ppm) ND

Total BTEX(ppm) 0.121

Field headspace(ppm) 658

TPH 510 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 6/22/94

SIGNATURE B.D. Shaw

PRINTED NAME
AND TITLE

Buddy D. Shaw
Environmental Coordinator

results copied to Johnny 7/6/14

CLIENT Arco

ENVIROTECH Inc.

PIT NO A0064

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

JOB NO 3764

FIELD REPORT: CLOSURE VERIFICATION

JOB NO 02140

PAGE No 1 of 1

LOCATION: NAME Oil Field's Cor WELL #: A1E PIT: 10m
QUAD/UNIT: E SEC: 13 TWP: 27N RNG: 10W BM: NM CNTY: ST ST: NM
QTR/FEETAGE SW/4 NW/4 CONTRACTOR: EPC

DATE STARTED: 6/22/14
DATE FINISHED: 6/22/14

ENVIRONMENTAL SPECIALIST: CLC

SOIL REMEDIATION: EXCAVATION APPROX. 10 FT. x 10 FT. x 8 FT. DEEP.

DISPOSAL FACILITY: landfilled on-site CUBIC YARDAGE: 30

LAND USE: Range LEASE: 94-000045

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 100 FEET S/E FROM WELLHEAD.

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

NMCD RANKING SCORE: 7 NMCD TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION:

bottom, east + south sides are rock

light yellow brown sand, dry, slightly cohesive

FIELD 4181 CALCULATIONS

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

SCALE



0

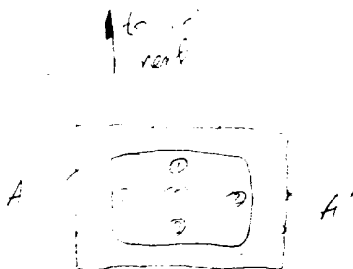
FEET

PIT PERIMETER

N

OVM
RESULTS

PIT PROFILE



SAMPLE ID	FIELD HEADSPACE (ft)
1	6' 292
2	6' 43
3	6' 182
4	6' 421
5	8' 658

LAB SAMPLES

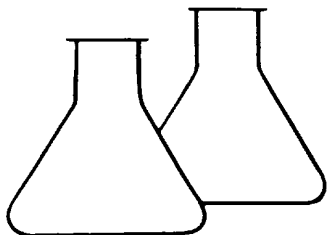
① 2' 6" (10' 182)
+ 6" x 1200



TRAVEL NOTES:

CALLOUT: 6/22/14

ONSITE: 6/22/14



ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Amoco	Project #:	92140
Sample ID:	5 @ 8'	Date Sampled:	06-22-94
Laboratory Number:	7648	Date Received:	06-22-94
Sample Matrix:	Soil	Date Analyzed:	06-26-94
Preservative:	Cool	Date Reported:	06-30-94
Condition:	Cool and Intact	Analysis Needed:	TPH

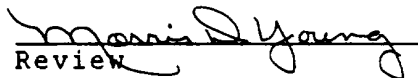
Parameter -----	Concentration (mg/kg) -----	Det. Limit (mg/kg) -----
Total Petroleum Hydrocarbons	510	30.0

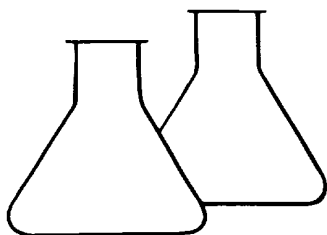
ND = Parameter not detected at the stated detection limit.
N/A = Not applicable

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

Comments: CM Morris Com A1E Blow Pit A0064.


Analyst


Review



ENVIROTECH LABS

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PHONE: (505) 632-0615 • FAX: (505) 632-1865

EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Amoco	Project #:	92140
Sample ID:	5 @ 8'	Date Reported:	07-01-94
Laboratory Number:	7648	Date Sampled:	06-22-94
Sample Matrix:	Soil	Date Received:	06-22-94
Preservative:	Cool	Date Extracted:	06-26-94
Condition:	Cool & Intact	Date Analyzed:	06-28-94
		Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
-----	-----	-----
Benzene	ND	13.4
Toluene	121	13.4
Ethylbenzene	ND	13.4
p,m-Xylene	ND	434.2
o-Xylene	ND	13

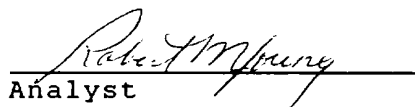
SURROGATE RECOVERIES:	Parameter	Percent Recovery
	-----	-----
	Bromofluorobenzene	85 %

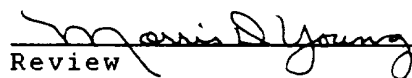
Method: Method 5030, Purge-and-Trap, Test Methods for
Evaluating Solid Waste, SW-846, USEPA, July 1992

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: CM Morris Com A1E Blow Pit A0064


Analyst


Review