

JICARILLA APACHE TRIBE  
ENVIRONMENTAL PROTECTION OFFICE  
P.O. BOX 507  
DULCE, NEW MEXICO 87528

0V  
87626 SUBMIT 1 COPY TO  
NATURAL RESOURCE DEPT  
AND OIL & GAS ADMINISTRATION

RECEIVED  
AUG 09 1999

PIT REMEDIATION AND CLOSURE REPORT

OIL CON. DIV.

DISC 826-9200

Operator: AMOCO PRODUCTION COMPANY Telephone: (505) 826-9200  
Address: 200 Amoco Court, Farmington, NM 87401  
Facility or Well Name: JICARILLA APACHE #102-10  
Location: Unit or Qtr/Qtr Sec D Sec 4 T 26N R 4W County RIO ARriba  
Pit Type: Separator X Dehydrator      Other       
Land Type: RANGE

Pit Location: Pit dimensions: length 28', width 25', depth 21'  
(Attach diagram) Reference: wellhead X, other       
Footage from reference: 114'  
Direction from reference: 24 Degrees      East of North X  
X West of South     

Depth To Groundwater:

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

Less than 50 feet	(20 points)	
50 feet to 99 feet	(10 points)	
Greater than 100 feet	(0 points)	<u>0</u>

Distance to an Ephemeral Stream

(Downgradient dry wash greater than  
ten feet in width)

Less than 100 feet	(10 points)	
Greater than 100 feet	(0 points)	<u>0</u>

Distance to Nearest Lake, Playa, or Watering Pond

(Downgradient lakes, playas and  
livestock or wildlife watering ponds)

Less than 100 feet	(10 points)	
Greater than 100 feet	(0 points)	<u>0</u>

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)	<u>0</u>

Distance To Surface Water:

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

Less than 100 feet	(20 points)	
100 feet to 1000 feet	(10 points)	
Greater than 1000 feet	(0 points)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: \_\_\_\_\_ Date Completed: 9/16/98

Remediation Method: Excavation ☒ Approx. cubic yards 360  
 Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation \_\_\_\_\_  
 Other \_\_\_\_\_

Remediation Location: Onsite ☒ Offsite \_\_\_\_\_  
 (i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: Excavation

Groundwater 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 25' (PIT Bottom)

Sample date 9/10/98 Sample time 0805

Sample Results

Soil: Benzene	(ppm)	<u>0.706</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>2.470</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>653</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>381</u>	Total Xylenes	(ppb)	_____

Groundwater 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 9/16/98 PRINTED NAME Buddy D. Shaw

SIGNATURE Buddy D. Shaw AND TITLE Environmental Coordinator

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES ☒ NO \_\_\_\_\_ (REASON) \_\_\_\_\_

SIGNED: Ken C. Mamm DATE: 10-1-98

3003906754

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>85626</u> C.O.C. NO: <u>6203</u>
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FIELD REPORT: CLOSURE VERIFICATION	PAGE No: <u>1</u> of <u>1</u>
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LOCATION: NAME: <u>JICA. AP.</u> IDZ WELL #: <u>10</u> PIT: <u>SEP</u>	DATE STARTED: <u>9/10/98</u> DATE FINISHED: _____
QUAD/UNIT: <u>D</u> SEC: <u>4</u> TWP: <u>26N</u> RNG: <u>4W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>	ENVIRONMENTAL SPECIALIST: <u>NV</u>
QTR/FOOTAGE: <u>890' FNL/1030' FWL</u> CONTRACTOR: <u>P+S</u>	

EXCAVATION APPROX. <u>28</u> FT. x <u>25</u> FT. x <u>21</u> FT. DEEP. CUBIC YARDAGE: <u>360</u>
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFARM</u>
LAND USE: <u>RANGE</u> LEASE: <u>JIC 102</u> FORMATION: <u>OK</u>

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>114</u> FT. <u>N24W</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>&gt;100'</u> NEAREST WATER SOURCE: <u>&gt;1000'</u> NEAREST SURFACE WATER: <u>&gt;1000'</u>	CHECK ONE:

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

### SOIL AND EXCAVATION DESCRIPTION:

MOSTLY OK. YELL. BROWN SAND NON COHESIVE SLIGHTLY MOIST FIRM MED. GRAY DISCOLORATION / STAINING OBSERVED BET. 9-11' BELOW GRADE ON NORTH & WEST SIDEWALLS, NO APPARENT HC ODOR DETECTED W/IN EXCAVATION, STRONG HC ODOR DETECTED W/IN NORTH, WEST SIDEWALLS, & PIT BOTTOM DUM SAMPLES.

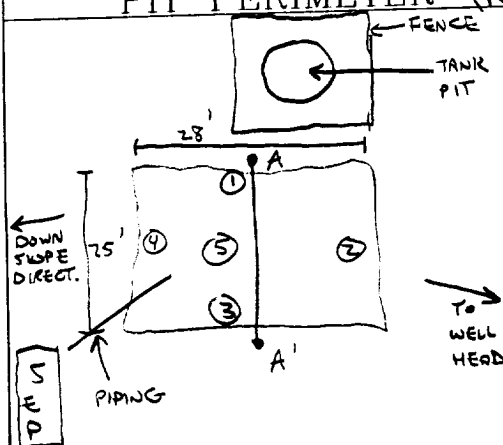
CLOSED

SCALE  
0 FT

### FIELD 418.1 CALCULATIONS

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

### PIT PERIMETER



### OVM RESULTS

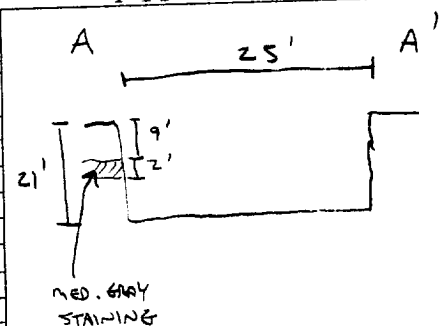
SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 16'	438
2 @ 16'	0.0
3 @ 15'	0.0
4 @ 17'	571
5 @ 25'	653

### LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
5 @ 25'	TPH/STEX	0905

BOTH PASSED

### PIT PROFILE



TRAVEL NOTES:

CALLOUT: \_\_\_\_\_

ONSITE: \_\_\_\_\_

9/10/98 - mkn-

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / AMOCO  
Sample ID: 5 @ 25'  
Laboratory Number: D928  
Chain of Custody No: 6203  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

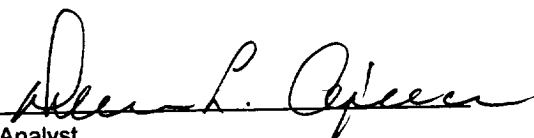
Project #: 04034-10  
Date Reported: 09-16-98  
Date Sampled: 09-10-98  
Date Received: 09-15-98  
Date Extracted: 09-16-98  
Date Analyzed: 09-16-98  
Analysis Requested: 8015 TPH

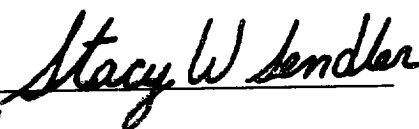
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	279	0.2
Diesel Range (C10 - C28)	102	0.1
Total Petroleum Hydrocarbons	381	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Jicarilla Apache #102 - 10 Separator Pit.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	5 @ 25'	Date Reported:	09-16-98
Laboratory Number:	D928	Date Sampled:	09-10-98
Chain of Custody:	6203	Date Received:	09-15-98
Sample Matrix:	Soil	Date Analyzed:	09-16-98
Preservative:	Cool	Date Extracted:	09-16-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	706	8.8
Toluene	2,670	8.4
Ethylbenzene	1,720	7.6
p,m-Xylene	17,860	10.8
o-Xylene	6,510	5.2
Total BTEX	29,470	

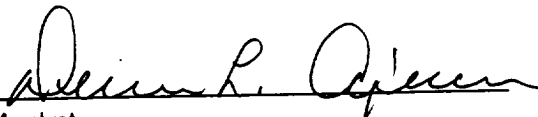
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	99 %
	Bromofluorobenzene	99 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Jicarilla Apache #102 - 10 Separator Pit.

  
Analyst

  
Review

6203

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JICARILLA APACHE TRIBE  
ENVIRONMENTAL PROTECTION OFFICE  
P.O. BOX 507  
DULCE, NEW MEXICO 87528

53020  
SUBMIT 1 COPY TO:  
NATURAL RESOURCE DEPT  
AND OIL & GAS ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

Operator: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9200  
Address: 200 Amoco Court, Farmington, NM 87401  
Facility or Well Name: JICARILLA APACHE 102-10  
Location: Unit or Qtr/Qtr Sec D Sec 4 T26N R4W County RIO ARriba  
Land Type: RANGE

Date Remediation Started: 9-10-98 Date Completed: 4/12/99  
Remediation Method: Landfarmed ☒ Approx. cubic yards 360  
Composted ☐  
Other ☐

<p>Depth To Groundwater: (pts.) <u>0</u> Distance to an Ephemeral Stream (pts.) <u>0</u> Distance to Nearest Lake, Playa, or Watering Pond (pts.) <u>0</u> Wellhead Protection Area: (pts.) <u>0</u> Distance To Surface Water: (pts.) <u>0</u> RANKING SCORE (TOTAL POINTS): <u>0</u></p>	<p style="text-align: center;"><b>Final Closure Sampling:</b></p> <p>Sampling Date: <u>4-8-99</u> Time: <u>1320</u> Sample Results: Field Headspace (ppm) <u>0.0</u> TPH (ppm) <u>0.5</u> Method <u>8015</u> Other <u>                    </u></p>
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I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 4/12/99 PRINTED NAME Buddy D. Shaw  
SIGNATURE Buddy D. Shaw AND TITLE Environmental Coordinator

AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES ☒ NO ☐ (REASON)                     

SIGNED: K. C. M... DATE: 6-18-99

CLIENT: <u>AMOCO</u>	<b>BLAGG ENGINEERING, INC.</b> P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>B5624</u> C.O.C. NO: <u>6885</u>
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## FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION NAME: <u>SICARILLA APACHE 102</u> WELL #: <u>10</u> PITS: <u>SEP</u> QUAD/UNIT: <u>D</u> SEC: <u>4</u> TWP: <u>26N</u> RNG: <u>4W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u> SPT/FOOTAGE: <u>NW1/4 NW1/4</u> CONTRACTOR: <u>RS</u>	DATE STARTED: <u>4-8-99</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>REP</u>
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### SOL REMEDIATION:

REMEDIATION SYSTEM: <u>LANDFARM</u>	APPROX. CUBIC YARDAGE: <u>360</u>
LAND USE: <u>RANGE</u>	LIFT DEPTH (ft): <u>2</u>

### FIELD NOTES & REMARKS:

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

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

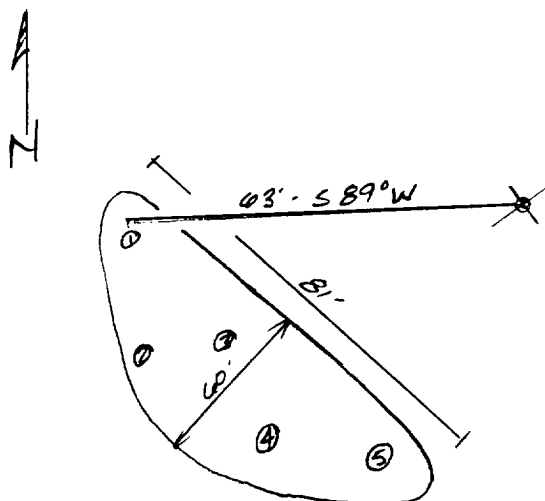
DK. YELLOWISH BROWN SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM.  
 NO APPARENT STAINING OBSERVED, NO HC ODDER DETECTED. SAMPLING  
 DEPTHS RANGE FROM 4" - 18". TOOK A SPT COMPOSITE SAMPLE  
 FOR LAB ANALYSIS.

CLOSED

### 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 (Bois)	1320	0.5

### SCALE



TRAVEL NOTES: CALLOUT: NA ONSITE: 4-8-99



# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Blagg / AMOCO  
Sample ID: LF - 1  
Laboratory Number: E999  
Chain of Custody No: 6885  
Sample Matrix: Soil  
Preservative: Cool  
Condition: Cool and Intact

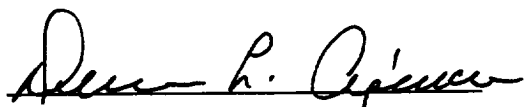
Project #: 403410  
Date Reported: 04-12-99  
Date Sampled: 04-08-99  
Date Received: 04-09-99  
Date Extracted: 04-09-99  
Date Analyzed: 04-12-99  
Analysis Requested: 8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.5	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	0.5	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Jicarilla Apache 102 - 10. 5 Pt. Composite.

  
Analyst

  
Review

9885

[illegible]