

RANKING SCORE (TOTAL POINTS): 6

BJ 594

BLW PTT

Date Remediation Started: _____ Date Completed: 7/31/98

Remediation Method: Excavation ☒ Approx. cubic yards 175
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. BEDROCK BOTTOM. RISK ASSESSED.

Groundwater 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' (WEST SIDEWALL).

Sample date 7/28/98 Sample time 1015

Sample Results

Soil: Benzene	(ppm)	<u>0.218</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>53.820</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>1,296</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>1,470</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 7/31/98 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) R.A. Attached

SIGNED: Kent M. Shaw DATE: 9-9-98

3003908145

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>83594</u> C.D.C. NO: <u>6111</u>
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FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
LOCATION: NAME: <u>JICARILUA</u> C WELL #: <u>2</u> PIT: <u>BLW</u>		DATE STARTED: <u>7/28/98</u> DATE FINISHED: _____
QUAD/UNIT: <u>N</u> SEC: <u>14</u> TWP: <u>26</u> NRNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>		ENVIRONMENTAL SPECIALIST: <u>NV</u>
QTR/FOOTAGE: <u>835' FSL / 2140' FWL</u> CONTRACTOR: <u>P & S</u>		

EXCAVATION APPROX. <u>24</u> FT. x <u>23</u> FT. x <u>14</u> FT. DEEP.	CUBIC YARDAGE: <u>175</u>
DISPOSAL FACILITY: <u>ON-SITE</u>	REMEDIALATION METHOD: <u>LANDFARM</u>
LAND USE: <u>RANGE</u>	LEASE: <u>C</u> FORMATION: <u>DK</u>

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>111</u> FT. <u>N74E</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>>100'</u>	NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u>
NMOC D RANKING SCORE: <u>0</u>	NMOC D TPH CLOSURE STD: <u>5000</u> PPM
SOIL AND EXCAVATION DESCRIPTION:	

CHECK ONE:

- ☒ PIT ABANDONED
☐ STEEL TANK INSTALLED
☐ FIBERGLASS TANK INSTALLED

SIDEWALLS: mostly OK. YELL. BROWN SAND TO SILTY SAND NON COHESIVE, SLIGHTLY MOIST, FIRM STRONG HC ODOR IN WEST SIDEWALL DUM SAMPLE ONLY, NO APPARENT STAINING OR HC ODOR OBSERVED W/IN EXCAVATION.

BOTTOM - BEDROCK (SHALE/CLAYSTONE), HARD, OLIVE GRAY IN COLOR NO APPARENT HC ODOR IN DUM SAMPLE VERY MOIST TO SATURATED @ PIT BOTTOM DUE TO RECENT PRECIPITATIONS.

BEDROCK Bottom

RISK ASSESSED

FIELD 418.1 CALCULATIONS

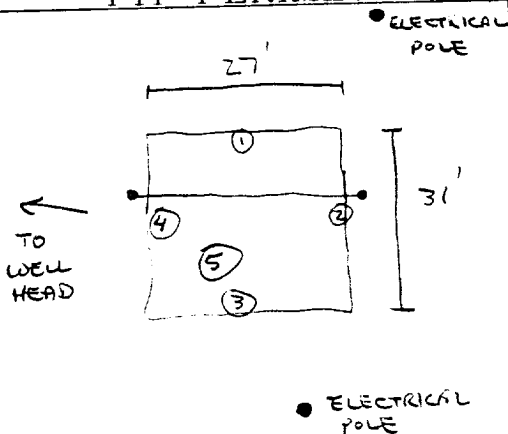
TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

SCALE



0 FT

PIT PERIMETER



OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 e7'	0.0
2 e7'	0.0
3 e8'	37.9
4 e8'	1,296
5 e14'	1.7

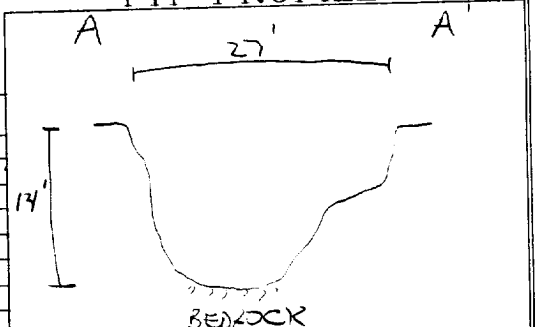
LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
4 e8'	TPH / BTEX	1015

TPH - PASSED

TOT. BTEX - FAILED

PIT PROFILE



TRAVEL NOTES: CALLOUT: 7/23/98 - AFTER. ONSITE: 7/28/98 - MORN.

Well Name:	Jicarilla C #2
Well Site location:	Unit N, Sec. 14, T26N, R5W
Pit Type:	Blow Pit
Producing Formation:	Basin Dakota
Pit Category:	Non Vulnerable
Horizontal Distance to Surface Water:	> 1000 ft.
Vicinity Groundwater Depth:	> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe encountered shale/claystone bedrock at 14 feet below grade.

No past or future threat to surface water or groundwater is likely based on the following considerations:

1. Past production fluids were contained locally by a relatively shallow shale/claystone bedrock located 14 feet below grade. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below shale/claystone bedrock.
2. Topographic information does not indicate off site lateral fluid migration near the earthen pit.
3. Daily discharge into the earthen pit has been terminated (pit abandoned). Prior discharge into the pit is believed to be under 5 barrels per day.
4. Well site located within the non-vulnerable area and is approximately 0.62 miles north of the nearest vulnerable area boundary (Tapacito Creek).

(Refer to Lapis Point Quadrangle, New Mexico - Rio Arriba County, 7.5 Minute Series (Topographic), 1963, (vulnerable area boundary developed by Mr. William C. Olson, Hydrogeologist, Environmental Bureau, New Mexico Oil Conservation Division).

Based upon the information given, we conclude that the subsurface lateral impact from the earthen pit is very limited and that the shale/claystone bottom creates enough of an impermeable barrier as to subdue impact to groundwater below it (please refer to AMOCO's report "Post Excavation Pit Closure Investigation Summary, July, 1995", with cover letter dated November 30, 1995). AMOCO requests pit closure approval on this location.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

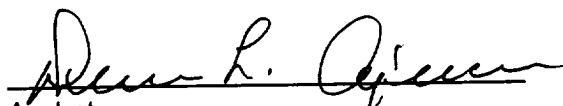
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	4 @ 8'	Date Reported:	07-31-98
Laboratory Number:	D766	Date Sampled:	07-28-98
Chain of Custody No:	6111	Date Received:	07-30-98
Sample Matrix:	Soil	Date Extracted:	07-31-98
Preservative:	Cool	Date Analyzed:	07-31-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

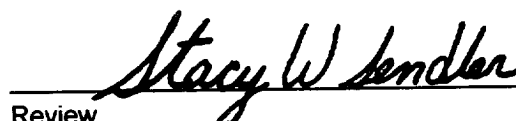
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	592	0.2
Diesel Range (C10 - C28)	880	0.1
Total Petroleum Hydrocarbons	1,470	0.2

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 C #2 Blow 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:	4 @ 8'	Date Reported:	07-31-98
Laboratory Number:	D766	Date Sampled:	07-28-98
Chain of Custody:	6111	Date Received:	07-30-98
Sample Matrix:	Soil	Date Analyzed:	07-31-98
Preservative:	Cool	Date Extracted:	07-31-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	218	8.8
Toluene	8,680	8.4
Ethylbenzene	1,030	7.6
p,m-Xylene	33,470	10.8
o-Xylene	10,420	5.2
Total BTEX	53,820	

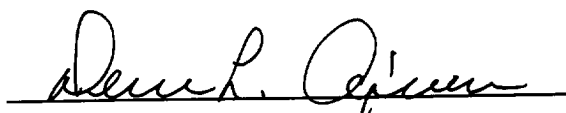
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	101 %
	Bromofluorobenzene	101 %

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 C #2 Blow Pit.


Analyst


Review

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

BJ594

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

PIT REMEDIATION AND CLOSURE REPORT

Operator: AMOCO PRODUCTION COMPANY **Telephone:** (505) 326-9200
Address: 200 Amoco Court, Farmington, NM 87401
Facility or Well Name: JICARILLA C #2
Location: Unit or Qtr/Qtr Sec N Sec 14 T26N R 5W County Rio ARRIBA
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: RANGE

Pit Location: Pit dimensions: length 27', width 31', depth 11'
(Attach diagram) Reference: wellhead ☒, other ☐
Footage from reference: 95'
Direction from reference: 21 Degrees ☒ East of North ☒
West 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)	<u>0</u>
Greater than 1000 feet	(0 points)	

RANKING SCORE (TOTAL POINTS): 0

BJ594

SEP. PIT

Date Remediation Started: _____ Date Completed: 7/31/98

Remediation Method: Excavation ☒ Approx. cubic yards 300
(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, BEDROCK BOTTOM - RISK ASSESSED.

Groundwater 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' (SOUTH SIDEWALK)

Sample date 7/28/98 Sample time 0915

Sample Results

Soil: Benzene	(ppm)	<u>3,840</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>254.190</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>1,068</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>5,420</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 7/31/98 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) R-A. Attached

SIGNED: Ken C. M... DATE: 9-9-98

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BJ 594</u> C.O.C. NO: <u>6111</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>JICARILLA</u> C WELL #: <u>2</u> PIT: <u>SEP</u> QUAD/UNIT: <u>N</u> SEC: <u>14</u> TWP: <u>26N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u> QTR/FOOTAGE: <u>835' FSL / 2140' FWL</u> CONTRACTOR: <u>PIS</u>	DATE STARTED: <u>7/28/98</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
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EXCAVATION APPROX. <u>27</u> FT. x <u>31</u> FT. x <u>11</u> FT. DEEP.	CUBIC YARDAGE: <u>300</u>	
DISPOSAL FACILITY: <u>ON-SITE</u>	REMEDIATION METHOD: <u>LANDFARM</u>	
LAND USE: <u>RANGE</u>	LEASE: <u>C</u>	FORMATION: <u>SIR</u>

FIELD NOTES & REMARKS:	PIT LOCATED APPROXIMATELY <u>95</u> FT. <u>N21E</u> FROM WELLHEAD. DEPTH TO GROUNDWATER: <u>2100'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u> NMOCB RANKING SCORE: <u>0</u> NMOCB TPH CLOSURE STD: <u>5000</u> PPM SOIL AND EXCAVATION DESCRIPTION:
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SIDEWALLS: BOTTOM HALF (BELOW 5 1/2' FROM GRADE) CONSISTED OF MED. GRAY TO BLACK SILTY SAND TO CLAY NON COHESIVE TO PLASTIC SLIGHTLY MOIST FIRM TO STIFF STAINING EVIDENT ALONG W/ HC DOOR FROM BOTTOM HALF, STRONG HC DOOR IN ALL OVM SAMPLES.

 BOTTOM - BEDROCK (SHALE/CLAYSTONE) HARD, LT. OLIVE GRAY IN COLOR, HC DOOR DETECTED W/IN OVM SAMPLE PIT BOTTOM VERY MOIST TO SATURATED DUE TO RECENT PRECIPITATION.

CHECK ONE:
☒ PIT ABANDONED
☐ STEEL TANK INSTALLED
☐ FIBERGLASS TANK INSTALLED

BECKROCK
Bottom

RISK ASSESSED

SCALE

 0 FT

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 @ 6'	715
2 @ 7'	1016
3 @ 6'	1063
4 @ 6'	696
5 @ 11'	114.7

PIT PROFILE

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
3 @ 6'	TPH/BTEX	0915

TPH - FAILED
TOT. BTEX - FAILED

TRAVEL NOTES:	CALLOUT: <u>7/23/98 - AFTER</u>	ONSITE: <u>7/28/98 - MORN.</u>
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Well Name:	Jicarilla C #2
Well Site location:	Unit N, Sec. 14, T26N, R5W
Pit Type:	Separator Pit
Producing Formation:	Basin Dakota
Pit Category:	Non Vulnerable
Horizontal Distance to Surface Water:	> 1000 ft.
Vicinity Groundwater Depth:	> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe encountered shale/claystone bedrock at 11 feet below grade.

No past or future threat to surface water or groundwater is likely based on the following considerations:

1. Past production fluids were contained locally by a relatively shallow shale/claystone bedrock located 11 feet below grade. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below shale/claystone bedrock.
2. Topographic information does not indicate off site lateral fluid migration near the earthen pit.
3. Daily discharge into the earthen pit has been terminated (pit abandoned). Prior discharge into the pit is believed to be under 5 barrels per day.
4. Well site located within the **non-vulnerable area** and is approximately 0.62 miles north of the nearest vulnerable area boundary (Tapacito Creek).

(Refer to Lapis Point Quadrangle, New Mexico - Rio Arriba County, 7.5 Minute Series (Topographic), 1963, (vulnerable area boundary developed by Mr. William C. Olson, Hydrogeologist, Environmental Bureau, New Mexico Oil Conservation Division).

Based upon the information given, we conclude that the subsurface lateral impact from the earthen pit is very limited and that the shale/claystone bottom creates enough of an impermeable barrier as to subdue impact to groundwater below it (please refer to AMOCO's report "Post Excavation Pit Closure Investigation Summary, July, 1995", with cover letter dated November 30, 1995). AMOCO requests pit closure approval on this location.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons


Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	3 @ 6'	Date Reported:	07-31-98
Laboratory Number:	D765	Date Sampled:	07-28-98
Chain of Custody No:	6111	Date Received:	07-30-98
Sample Matrix:	Soil	Date Extracted:	07-31-98
Preservative:	Cool	Date Analyzed:	07-31-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	3,830	0.2
Diesel Range (C10 - C28)	1,590	0.1
Total Petroleum Hydrocarbons	5,420	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 C #2 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:	3 @ 6'	Date Reported:	07-31-98
Laboratory Number:	D765	Date Sampled:	07-28-98
Chain of Custody:	6111	Date Received:	07-30-98
Sample Matrix:	Soil	Date Analyzed:	07-31-98
Preservative:	Cool	Date Extracted:	07-31-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	3,840	8.8
Toluene	32,020	8.4
Ethylbenzene	4,300	7.6
p,m-Xylene	131,770	10.8
o-Xylene	82,260	5.2
Total BTEX	254,190	

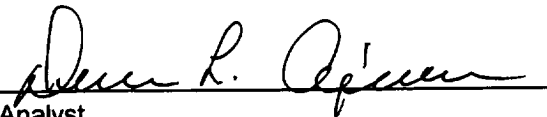
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	98 %
	Bromofluorobenzene	98 %

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 C #2 Separator Pit.


Analyst


Review

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

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

ON SITE SOIL REMEDIATION REPORT

Operator: <u>AMOCO PRODUCTION COMPANY</u>		Telephone: <u>(505) 326-9200</u>	
Address: <u>200 Amoco Court, Farmington, NM 87401</u>			
Facility or Well Name: <u>JICARILLA C 2</u>			
Location: Unit or Qtr/Qtr Sec <u>N</u> Sec <u>14</u> T <u>26N</u> R <u>5W</u> County <u>RIO ARriba</u>			
Land Type: <u>RANGE</u>			
Date Remediation Started: <u>7-28-98</u>		Date Completed: <u>2/10/99</u>	
Remediation Method: Landfarmed <input checked="" type="checkbox"/>		Approx. cubic yards <u>475</u>	
Composted <input type="checkbox"/>			
Other <input type="checkbox"/>			
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>		Final Closure Sampling: Sampling Date: <u>2-8-99</u> Time: <u>1200</u> Sample Results: Field Headspace (ppm) <u>04.7</u> TPH (ppm) <u>1.6</u> Method <u>8015</u> Other <input type="checkbox"/>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF DATE <u>2/10/99</u> PRINTED NAME <u>Buddy D. Shaw</u> SIGNATURE <u>Buddy D. Shaw</u> AND TITLE <u>Environmental Coordinator</u>			
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE. APPROVED: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> (REASON) _____ SIGNED: <u>Ken C. McManis</u> DATE: <u>3-31-99</u>			

CLIENT: AMOCOBLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199LOCATION NO: BJS94C.O.C. NO: 6569

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: JICARILLA C WELL #: 2 PITS: SEP., BLOWDATE STARTED: 2-8-99QUAD/UNIT: N SEC: 14 TWP: 26N RNG: 5W PM: NM CNTY: RA ST: NM

DATE FINISHED: _____

QTP/FOOTAGE: SE/4 SW/4CONTRACTOR: P+SENVIRONMENTAL
SPECIALIST: REP

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARMAPPROX. CUBIC YARDAGE: 475LAND USE: RANGELIFT DEPTH (ft): 1-1.5

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

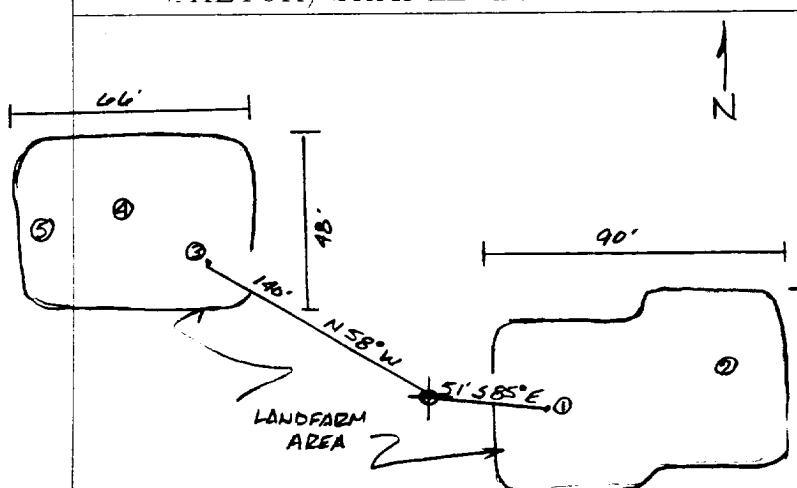
DK. YELLOWISH BROWN SAND. NON COHESIVE, SLIGHTLY MOIST, FIRM.
NO VISIBLE SURFACE STAINING, SOME DISAGGREGATION AND HC DDOR IN SAMPLE
POINTS ③, ④, ⑤. SAMPLING DEPTHS RANGE FROM 6"-12". TOOK A SPT. COMPOSITE
SAMPLE FOR LAB ANALYSIS

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	64.7	LF-1	TPH (8015)	1200	1.6

SCALE



0 FT

TRAVEL NOTES:

CALLOUT: N/AONSITE: 2-8-99

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

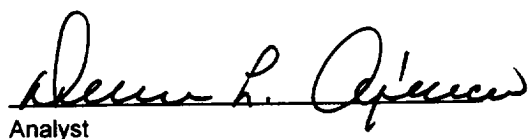
Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	02-10-99
Laboratory Number:	E619	Date Sampled:	02-08-99
Chain of Custody No:	6569	Date Received:	02-09-99
Sample Matrix:	Soil	Date Extracted:	02-10-99
Preservative:	Cool	Date Analyzed:	02-10-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.8	0.2
Diesel Range (C10 - C28)	0.8	0.1
Total Petroleum Hydrocarbons	1.6	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 C 2 Landfarm. 5 Pt. Composite.


Analyst


Review

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