

BT623
Sep-1954
SUBMIT 1 COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

RECEIVED
AUG 16 1999

OIL CON. DIV.
DIST. 3
(505) 326-9200

Non-vulnerable, practical extension

Telephone: (505) 326-9200

Pit Location:
(Attach diagram)

Pit dimensions: length 45', width 45', depth 14'

Reference: wellhead X, other _____

Footage from reference: 255'

Direction from reference: 74 Degrees X East of North X
West South _____

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

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

Distance to an Ephemeral Stream
(Downgradient dry wash greater than
ten feet in width)

Less than 100 feet (10 points) 0
Greater than 100 feet (0 points)

Distance to Nearest Lake, Playa, or Watering Pond
(Downgradient lakes, playas and livestock or wildlife watering ponds)

Less than 100 feet (10 points) 0
Greater than 100 feet (0 points)

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 100 feet (20 points)
100 feet to 1000 feet (10 points)
Greater than 1000 feet (0 points) 0

RANKING SCORE (TOTAL POINTS): 9

Date Remediation Started: _____

Date Completed: 9/4/98Approx. cubic yards 400Remediation Method: Excavation ☒
(check all appropriate sections)Landfarmed ☒

Insitu Bioremediation _____

Other _____

Remediation Location:

(i.e. landfarmed onsite,
name and location of
offsite facility)Onsite ☒ Offsite _____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

16' (PIT BOTTOM)

Sample date

9/4/98

Sample time

1030

Sample Results

Soil: Benzene

(ppm) _____

Water: Benzene

(ppb) _____

Total BTEX

(ppm) _____

Toluene

(ppb) _____

Field Headspace (ppm)

0.0

Ethylbenzene

(ppb) _____

TPH

(ppm) _____

ND

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

9/4/98

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:

Ker C. Mammell

DATE:

10-1-98

3003922179

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BJ623</u> C.O.C. NO: _____																																								
FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																																								
LOCATION: NAME: <u>JICA CONTR. 146</u> WELL #: <u>10E</u> PIT: <u>BLW</u>		DATE STARTED: <u>9/4/98</u> DATE FINISHED: _____																																								
QUAD/UNIT: <u>E</u> SEC: <u>9</u> TWP: <u>25N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>		ENVIRONMENTAL SPECIALIST: <u>NV</u>																																								
QTR/FOOTAGE: <u>1520' FNL</u> <u>1030' FNL</u> CONTRACTOR: <u>P+S</u>																																										
EXCAVATION APPROX. <u>45</u> FT. x <u>45</u> FT. x <u>14</u> FT. DEEP. CUBIC YARDAGE: <u>400</u>																																										
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFARM</u>																																										
LAND USE: <u>RANGE</u> LEASE: <u>JIC 146</u> FORMATION: <u>DK</u>																																										
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>255</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 RANKING SCORE: <u>0</u> NMOC TPH CLOSURE STD: <u>5000</u> PPM																																										
SOIL AND EXCAVATION DESCRIPTION:																																										
ENTIRE EXCAVATION CONSISTED OF DK. YELL. DRANGE SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT STAINING OR HC ODOR OBSERVED/DETECTED W/IN EXCAVATION, NO APPARENT HC ODOR IN ANY OF THE DUM SAMPLES.																																										
FIELD 418.1 CALCULATIONS																																										
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>TIME</th> <th>SAMPLE I.D.</th> <th>LAB No:</th> <th>WEIGHT (g)</th> <th>mL. FREON</th> <th>DILUTION</th> <th>READING</th> <th>CALC. ppm</th> </tr> </thead> <tbody> <tr> <td>1030</td> <td>(5) @ 16'</td> <td>TPH-2029</td> <td>5</td> <td>20</td> <td>1:1</td> <td>4</td> <td>ND</td> </tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>			TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm	1030	(5) @ 16'	TPH-2029	5	20	1:1	4	ND																								
TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm																																			
1030	(5) @ 16'	TPH-2029	5	20	1:1	4	ND																																			
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p><u>CLOSED</u></p> <p>SCALE</p> <p>0 FT</p> </div> <div style="width: 65%;"> <p>PIT PERIMETER</p> </div> </div>																																										
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>OVM RESULTS</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>FIELD HEADSPACE PID (ppm)</th> </tr> </thead> <tbody> <tr><td>1 @ 9'</td><td>0.0</td></tr> <tr><td>2 @ 10'</td><td>0.0</td></tr> <tr><td>3 @ 8'</td><td>0.0</td></tr> <tr><td>4 @ 8'</td><td>0.0</td></tr> <tr><td>5 @ 16'</td><td>0.0</td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </tbody> </table> </div> <div style="width: 65%;"> <p>PIT PROFILE</p> </div> </div>			SAMPLE ID	FIELD HEADSPACE PID (ppm)	1 @ 9'	0.0	2 @ 10'	0.0	3 @ 8'	0.0	4 @ 8'	0.0	5 @ 16'	0.0																												
SAMPLE ID	FIELD HEADSPACE PID (ppm)																																									
1 @ 9'	0.0																																									
2 @ 10'	0.0																																									
3 @ 8'	0.0																																									
4 @ 8'	0.0																																									
5 @ 16'	0.0																																									
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>LAB SAMPLES</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>SAMPLE ID</th> <th>ANALYSIS</th> <th>TIME</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table> </div> <div style="width: 65%;"> <p>TRAVEL NOTES: CALLOUT: _____ ONSITE: <u>9/4/98 - moln.</u></p> </div> </div>			SAMPLE ID	ANALYSIS	TIME																																					
SAMPLE ID	ANALYSIS	TIME																																								

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	Project #:	
Sample ID:	5 @ 16'	Date Analyzed:	09-04-98
Project Location:	Jicarilla Contract # 146 - 10E	Date Reported:	09-04-98
Laboratory Number:	TPH-2029	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	ND	20

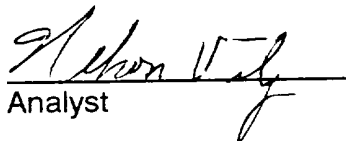
ND = Not Detectable at stated detection limits.

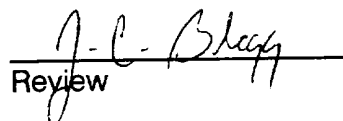
QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	236	220	7.02

*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: Blow Pit - BJ623


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:

Sample ID:

Project Location:

Laboratory Number:

Amoco

5 @ 16'

Jicarilla Contract # 146 - 10E

TPH-2029

Project #:

Date Analyzed:

Date Reported:

Sample Matrix:

09-04-98

09-04-98

Soil

Sample Weight:

5.00 grams

Volume Freon:

20.00 mL

Dilution Factor:

1 (unitless)

TPH Reading:

4 mg/kg

TPH Result:

16.0 mg/kg

Reported TPH Result:

16 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.

236

220

7.02

Comments:

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

Comments:

Blow Pit - BJ623

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

8J623 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 CONTRACT # 146-10E
Location: Unit or Qtr/Qtr Sec E Sec 9 T 25N R 5W County RIO ARriba
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: RANGE

Pit Location: (Attach diagram) Pit dimensions: length 28', width 24', depth 25'
Reference: wellhead ☒, other ☐
Footage from reference: 177'
Direction from reference: 33 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) Greater than 1000 feet (0 points)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

BJ623

SEP. PIT

Date Remediation Started: _____

Date Completed: 9/9/98Remediation Method: Excavation ☒
Check all appropriate sections) Landfarmed ☒
Other _____Approx. cubic yards 400

Insitu Bioremediation _____

Remediation Location:
(i.e. landfarmed onsite,
name and location of
offsite facility)Onsite ☒ Offsite _____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 DocumentsSample depth 27' (PIT Bottom)Sample date 9/4/98Sample time 1130

Sample Results

Soil: Benzene (ppm) 0.245

Water: Benzene (ppb) _____

Total BTEX (ppm) 72.120

Toluene (ppb) _____

Field Headspace (ppm) 254.9

Ethylbenzene (ppb) _____

TPH (ppm) 3,660

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

9/9/98PRINTED 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) conditional closer

SIGNED:

Kenn C Marshall

DATE:

10-1-98

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BJ623</u> C.O.C. NO: _____
----------------------	--	---

FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
LOCATION: NAME: <u>JICA. CONTR. 146</u> WELL #: <u>10E</u> PIT: <u>SEP</u>		DATE STARTED: <u>9/4/98</u> DATE FINISHED: _____
QUAD/UNIT: <u>E SEC: 9 TWP: 25N RNG: 5W PM: NM CNTY: RA ST: NM</u>		ENVIRONMENTAL SPECIALIST: <u>NV</u>
QTR/FOOTAGE: <u>1520' FNL / 1030' FWL</u> CONTRACTOR: <u>P+S</u>		

EXCAVATION APPROX. <u>28</u> FT. x <u>24</u> FT. x <u>25</u> FT. DEEP. CUBIC YARDAGE: <u>400</u>
DISPOSAL FACILITY: _____ ON-SITE REMEDIATION METHOD: <u>LANDFARM</u>
LAND USE: <u>RANGE</u> LEASE: <u>JK 146</u> FORMATION: <u>DR</u>

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>177</u> FT. <u>S33E</u> FROM WELLHEAD.
DEPTH TO GROUNDWATER: <u>>100'</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:

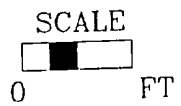
CHECK ONE:
<input checked="" type="checkbox"/> PIT ABANDONED
<input type="checkbox"/> STEEL TANK INSTALLED
<input type="checkbox"/> FIBERGLASS TANK INSTALLED

SOIL MOSTLY DR. YELL. ORANGE SAND, NOW COHESIVE, SLIGHTLY MOIST FIRM POSSIBLE STAINING ON NORTH SIDEWALL ONLY (20'-25' INTERVAL) - DUE TO LT. GRAY IN COLOR, HC SOOR DETECTED w/in EXCAVATION & PIT BOTTOM OVM SAMPLE, PIT BOTTOM OVM SAMPLE OLIVE GRAY IN COLOR.

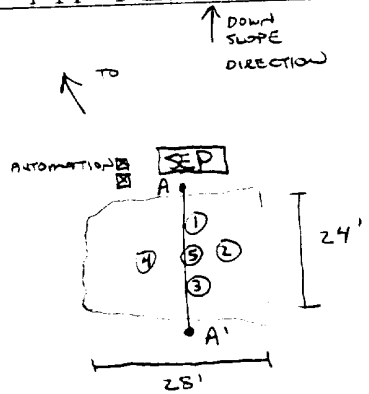
JICARILLA - CONDITIONAL
OCD - RISK ASSESSED

FIELD 418.1 CALCULATIONS

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



PIT PERIMETER



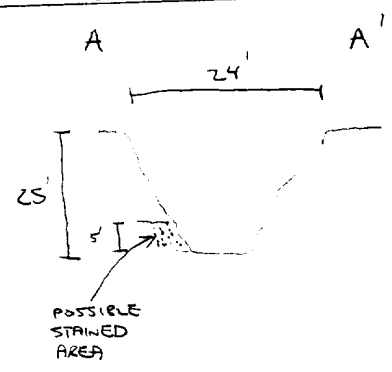
OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 19'	0.0
2 @ 20'	0.0
3 @ 19'	0.0
4 @ 20'	0.0
5 @ 27'	254.9

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME
(5) E27	TPH / RTEX	1130
TPH - PASSED		
TOT. RTEX - FAILED		

PIT PROFILE



TRAVEL NOTES: CALLOUT: _____	ONSITE: <u>9/4/98 - MORN.</u>
------------------------------	-------------------------------

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla Contract 146 #10E

Unit E, Sec. 9, T25N, R5W

Separator Pit

Basin Dakota

Non Vulnerable

> 1000 ft.

> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe reached practical extent (27 ft. below grade) and for safety concerns (underground piping and surface equipment).

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

1. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below presumed shallow sandstone bedrock (based on informal site observation of adjacent sandstone outcrop).
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 0.40 miles north of the nearest vulnerable area boundary (Gonzales Canyon wash).

(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 vertical impact to groundwater is very unlikely. AMOCO requests pit closure approval on this location.

EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

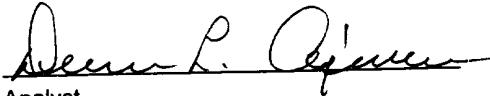
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	5 @ 27'	Date Reported:	09-09-98
Laboratory Number:	D906	Date Sampled:	09-04-98
Chain of Custody No:	6195	Date Received:	09-04-98
Sample Matrix:	Soil	Date Extracted:	09-09-98
Preservative:	Cool	Date Analyzed:	09-09-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1,870	0.2
Diesel Range (C10 - C28)	791	0.1
Total Petroleum Hydrocarbons	2,660	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 Contract #146 - 10E Separator Pit.


Analyst


Review

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	5 @ 27'	Date Reported:	09-09-98
Laboratory Number:	D906	Date Sampled:	09-04-98
Chain of Custody:	6195	Date Received:	09-04-98
Sample Matrix:	Soil	Date Analyzed:	09-09-98
Preservative:	Cool	Date Extracted:	09-09-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	245	8.8
Toluene	6,580	8.4
Ethylbenzene	6,370	7.6
p,m-Xylene	37,080	10.8
o-Xylene	21,850	5.2
Total BTEX	72,120	

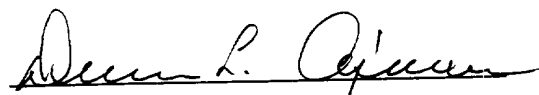
ND - Parameter not detected at the stated detection limit.

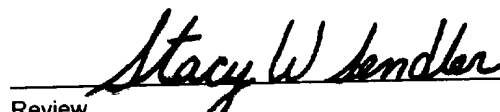
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	99 %
	Bromofluorobenzene	99 %

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 Contract #146 10E Separator Pit.


Analyst


Review

6195

[illegible]

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 CONTRACT 146-10E</u>	
Location: Unit or Qtr/Qtr Sec <u>E</u> Sec <u>9</u> T <u>25N</u> R <u>5W</u> County <u>RIO ARIZONA</u>	
Land Type: _____	
Date Remediation Started: <u>9-4-98</u> Date Completed: <u>5/7/99</u>	
Remediation Method: Landfarmed <input checked="" type="checkbox"/> Approx. cubic yards <u>800</u>	
Composted <input type="checkbox"/>	
Other <input type="checkbox"/>	
Depth To Groundwater: (pts.) <u>0</u>	Final Closure Sampling: Sampling Date: <u>5-6-99</u> Time: <u>1135</u> Sample Results: Field Headspace (ppm) <u>224.2</u> ^{TPH} (8015) <u>+</u> TPH (ppm) <u>2640</u> Method ^{BTEX} (8021) <u></u> Other <u>BENZENE = 0.101 ppm</u> <u>TOT. BTEX = 3.480 ppm</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>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE <u>5/7/99</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 type="checkbox"/> NO <input type="checkbox"/> (REASON) _____	
SIGNED: _____ DATE: _____	

CLIENT: <u>Amoco</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BS623</u> C.B.C. NO: <u>CA10</u>
----------------------	---	---

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME <u>SICABILLA CONTRACT #10</u> WELL # <u>10E</u> PITS: <u>SEP, BLOW</u> QUAD/UNIT <u>E</u> SEC <u>9</u> TWP <u>25N</u> RNG <u>5W</u> PM <u>NM</u> CNTY <u>RA</u> ST <u>NM</u> STR/FOOTAGE <u>SW/4 NW/4</u> CONTRACTOR: <u>P+S</u>	DATE STARTED: <u>5.6.99</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>REP</u>
---	---

SOIL REMEDIATION:

REMEDICATION SYSTEM: <u>LANDFARM</u>	APPROX. CUBIC YARDAGE: <u>800</u>
LAND USE: <u>RANGE</u>	LIFT DEPTH (ft): <u>1.5-2</u>

FIELD NOTES & REMARKS:

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
 NMOC2 FANING SCORE 0 NMOC2 TPH CLOSURE STD: 5000 PPM

LT. YELLOWISH BROWN SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM.
 LARGE AREA OF STAINING OBSERVED IN LANDFARM AREA #2 (SEE SKETCH BELOW)
 HC ODOR DETECTED IN SAMPLING POINT ④. SAMPLING DEPTHS RANGE FROM
 6" - 18". COLLECTED A SPT. COMPOSITE SAMPLE FOR LAB ANALYSIS.

NOTE: SOME SOIL WAS MOVED + LANDFARMED TO THE SICABILLA CONTRACT 146-7

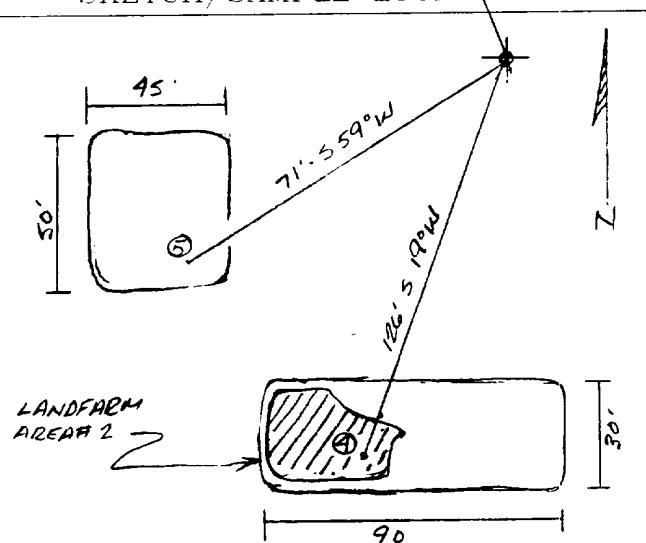
CLOSED

FIELD 418.1 CALCULATIONS

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

SIC CONT. 146-7 WELL HEAD

SKETCH/SAMPLE LOCATIONS

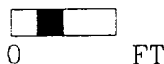


OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	224.2	LF-1	TPH (3015)	1135	2640
		"	BENZENE	"	101 ppb
		"	TOT. BTEX	"	3480 ppb

SCALE



TRAVEL NOTES

CALLOUT: NA ONSITE: 5.6.99

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

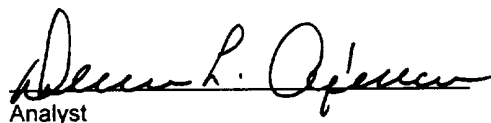
Client:	Blagg / Amoco	Project #:	403410
Sample ID:	LF - 1	Date Reported:	05-07-99
Laboratory Number:	F167	Date Sampled:	05-06-99
Chain of Custody No:	6910	Date Received:	05-07-99
Sample Matrix:	Soil	Date Extracted:	05-07-99
Preservative:	Cool	Date Analyzed:	05-07-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

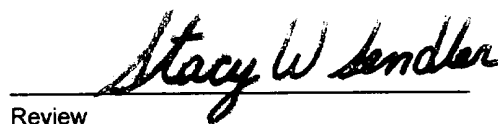
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	607	0.2
Diesel Range (C10 - C28)	2,030	0.1
Total Petroleum Hydrocarbons	2,640	0.2

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 Contract 146 - 10E Landfarm. 5 Pt. Composite.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / CONOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	05-07-99
Laboratory Number:	F167	Date Sampled:	05-06-99
Chain of Custody:	6910	Date Received:	05-07-99
Sample Matrix:	Soil	Date Analyzed:	05-07-99
Preservative:	Cool	Date Extracted:	05-07-99
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	101	8.8
Toluene	124	8.4
Ethylbenzene	266	7.6
p,m-Xylene	2,140	10.8
o-Xylene	854	5.2
Total BTEX	3,480	

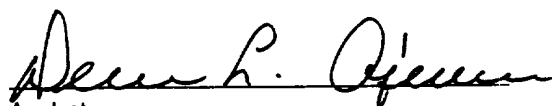
ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	95 %
	Bromofluorobenzene	95 %

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 Contract 146 - 10E Landfarm. 5 Pt. Composite.


Analyst


Review

6910

[illegible]