

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

BJ625

SUBMIT 1 COPY TO

NATURAL RESOURCE DEPT

AND OIL & GAS ADMINISTRATION

SEP - RSK - NOT
baker

RECEIVED
AUG 18 1999

PIT REMEDIATION AND CLOSURE REPORT

Non-Vulnerable, protected OIL CON. DIV.

Operator: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9200
Address: 200 Amoco Court, Farmington, NM 87401
Facility or Well Name: JICARILLA CONTRACT # 146-30
Location: Unit or Qtr/Qtr Sec C Sec 9 T25N R5W County RIO ARIZONA
Pit Type: Separator Dehydrator Other BLOW
Land Type: RANGE

Pit Location: Pit dimensions: length NA, width NA, depth NA
(Attach diagram) Reference: wellhead X, other
Footage from reference: 185'
Direction from reference: 64 Degrees X East of North
West of South X

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

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: _____ Date Completed: 9/7/98
 Remediation Method: Excavation ☒ Approx. cubic yards NA
 (check all appropriate sections) Landfarmed _____ Insitu Bioremediation _____
 Other CLOSE AS IS.

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

General Description of Remedial Action: Excavation. NO REMEDIATION NECESSARY.

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 17' (TEST HOLE BOTTOM)

Sample date 9/7/98 Sample time 1100

Sample Results

Soil: Benzene	(ppm)	_____	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	_____	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>0.0</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>ND</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 9/7/98 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: Keith M. Shaw DATE: 10-1-98

30039 22481

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>81625</u> C.O.C. NO: _____
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FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>
LOCATION: NAME: <u>JKA. CONTR. 146</u> WELL #: <u>30</u> PIT: <u>BLOW</u>		DATE STARTED: <u>9/7/98</u> DATE FINISHED: _____
QUAD/UNIT: <u>C</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>880'FWL</u> / <u>1630'FWL</u> CONTRACTOR: <u>P+S</u>		

EXCAVATION APPROX. <u>NA</u> FT. x <u>NA</u> FT. x <u>NA</u> FT. DEEP. CUBIC YARDAGE: <u>NA</u>
DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>CLOSE AS IS.</u>
LAND USE: <u>RANGE</u> LEASE: <u>JK 146</u> FORMATION: <u>CK</u>

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>185</u> FT. <u>SE</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:	

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

TEST HOLE ADVANCED W/IN NORTH END OF PIT AREA, ENTIRE INTERVAL CONSISTED OF DK. YELL. ORANGE SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, NO APPARENT STAINING OR HC ODOR OBSERVED/DETECTED W/IN TEST HOLE, NO APPARENT HC ODOR DETECTED IN EITHER DUM SAMPLE.

(CLOSED)

SCALE

0 FT

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1100	② @ 17'	TPH-2031	5	20	1:1	5	ND

PIT PERIMETER

PIT PROFILE

NOT APPLICABLE

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 10'	0.0
2 @ 17'	0.0
3 @	
4 @	
5 @	

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

TRAVEL NOTES:	CALLOUT: _____	ONSITE: <u>9/7/98 - MOR.</u>
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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:	2 @ 17'	Date Analyzed:	09-07-98
Project Location:	Jicarilla Contract # 146 - 30	Date Reported:	09-07-98
Laboratory Number:	TPH-2031	Sample Matrix:	Soil

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

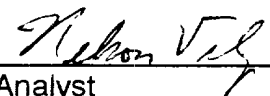
ND = Not Detectable at stated detection limits.


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 - BJ625


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:

Amoco

Project #:

Sample ID:

2 @ 17'

Date Analyzed:

09-07-98

Project Location:

Jicarilla Contract # 146 - 30

Date Reported:

09-07-98

Laboratory Number:

TPH-2031

Sample Matrix:

Soil

Sample Weight:

5.00 grams

Volume Freon:

20.00 mL

Dilution Factor:

1 (unitless)

TPH Reading:

5 mg/kg

TPH Result:

20.0 mg/kg

Reported TPH Result:

20 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 - BJ625

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ENVIRONMENTAL PROTECTION OFFICE
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DULCE, NEW MEXICO 87528**

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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 # 146-30
Location: Unit or Qtr/Qtr Sec C Sec 9 T 25N R 5W County RIO ARriba
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: RANGE

Pit Location: Pit dimensions: length 18', width 19', depth 19'
(Attach diagram) Reference: wellhead ☒, other ☐
Footage from reference: 185'
Direction from reference: 7 Degrees ☐ East of North ☐
☒ 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: 9/10/98
Remediation Method: Excavation ☒ Approx. cubic yards 200
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: Sample location see Attached Documents
Closure Sampling: _____
(if multiple samples, attach sample results and diagram of sample locations and depths)
Sample depth 21' (PIT Bottom)
Sample date 9/7/98 Sample time 1255

Sample Results

Soil: Benzene	(ppm)	<u>1,330</u>	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	<u>10,200</u>	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>468</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>5,880</u>	Total Xylenes	(ppb)	_____

Groundwater Sample: Yes _____ No ☒ (If yes, attach sample results)


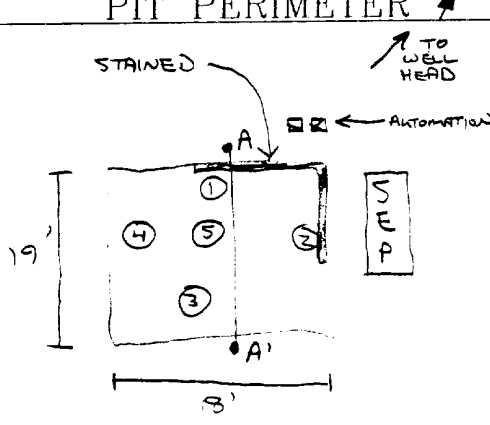
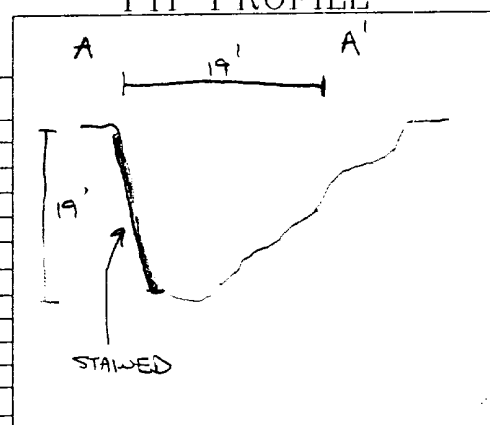
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 9/10/98 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) conditional closure

SIGNED: Kenn C Mamm DATE: 10-1-98

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BJ625</u> C.O.C. NO: <u>6197</u>																																
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<div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> OK. YELL. ORANGE (SOUTH & WEST SIDEWALLS) TO MED. GRAY (NORTH, EAST SIDEWALLS, & PIT BOTTOM) SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM, HEAVILY & APPARENT STAINING OBSERVED ON NORTH & EAST SIDEWALLS (SEE DIAGRAMS BELOW). HC ODOR DETECTED w/in EXCAVATION & IN NORTH, EAST SIDEWALLS, & PIT BOTTOM DUM SAMPLES, EXCAVATION LIMITED DUE TO SURFACE EQUIP. & UNDERGROUND PIPING. </div>																																		
<div style="display: flex; justify-content: space-between; align-items: flex-start;"> <div style="width: 30%;"> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> CONDITIONAL - TIC & PD RISK ASSESSED - OGD </div> <div style="text-align: center;"> SCALE  </div> </div> <div style="width: 65%;"> <div style="text-align: center; margin-bottom: 5px;">FIELD 418.1 CALCULATIONS</div> <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> </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> </div> </div>			TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm																								
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<div style="text-align: right;"> ONSITE: <u>9/7/98 - MORN/AFTER.</u> </div>																																		

Well Name:**Well Site location:****Pit Type:****Producing Formation:****Pit Category:****Horizontal Distance to Surface Water:****Vicinity Groundwater Depth:****Jicarilla Contract 146 #30**

Unit C, Sec. 9, T25N, R5W

Separator Pit

Chacra

Non Vulnerable

> 1000 ft.

> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe reached practical extent (21 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 0.38 miles north northwest 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.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

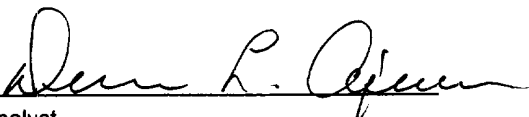
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	5 @ 21'	Date Reported:	09-10-98
Laboratory Number:	D908	Date Sampled:	09-07-98
Chain of Custody No:	6197	Date Received:	09-08-98
Sample Matrix:	Soil	Date Extracted:	09-10-98
Preservative:	Cool	Date Analyzed:	09-10-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH


Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1,710	0.2
Diesel Range (C10 - C28)	4,170	0.1
Total Petroleum Hydrocarbons	5,880	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 #147 - 30 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 @ 21'	Date Reported:	09-10-98
Laboratory Number:	D908	Date Sampled:	09-07-98
Chain of Custody:	6197	Date Received:	09-08-98
Sample Matrix:	Soil	Date Analyzed:	09-10-98
Preservative:	Cool	Date Extracted:	09-10-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1,330	8.8
Toluene	3,330	8.4
Ethylbenzene	1,550	7.6
p,m-Xylene	2,740	10.8
o-Xylene	1,250	5.2
Total BTEX	10,200	

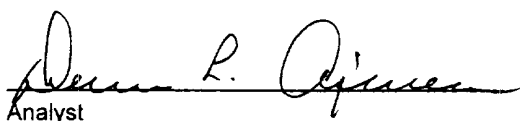
ND - Parameter not detected at the stated detection limit.

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 Contract #146 - 30 Separator Pit.


Analyst


Review

6197

[illegible]

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

SUBMIT 1 COPY TO:
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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 140.30</u>			
Location: Unit or Qtr/Qtr Sec <u>C</u> Sec <u>9</u> T <u>25N</u> R <u>5W</u> County <u>TRID ARIZONA</u>			
Land Type: <u>RANGE</u>			
Date Remediation Started: <u>9.7.98</u>		Date Completed: <u>6/16/99</u>	
Remediation Method: Landfarmed <input checked="" type="checkbox"/>		Approx. cubic yards <u>200</u>	
Composted <input type="checkbox"/>			
Other <input type="checkbox"/>			
Depth To Groundwater: (pts.) <u>0</u>		Final Closure Sampling:	
Distance to an Ephemeral Stream (pts.) <u>0</u>		Sampling Date: <u>6/14/99</u> Time: <u>1250</u>	
Distance to Nearest Lake, Playa, or Watering Pond (pts.) <u>0</u>		Sample Results:	
Wellhead Protection Area: (pts.) <u>0</u>		Field Headspace (ppm) <u>58.8</u>	
Distance To Surface Water: (pts.) <u>0</u>		TPH (ppm) <u>4650</u> Method <u>TPH (6015)</u>	
Other <input type="checkbox"/>			
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>6/16/99</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: AMCOBLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199LOCATION NO: BS025C.D.C. NO: LA12

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME JICARILLA CONTRACT 146 WELL #: 30 PITS: SEP, BLOWDATE STARTED: 5.6.99QUAD/UNIT: C SEC: 9 TWP: 25N RNG: 5W PM: NM CNTY: BA ST: NM

DATE FINISHED: _____

STR/FOOTAGE: NE/4 NW/4CONTRACTOR: P+SENVIRONMENTAL
SPECIALIST: REP

REMEDATION:

REMEDICATION SYSTEM: LANDFARMAPPROX. CUBIC YARDAGE: 200LAND USE: RANGELIFT DEPTH (ft): 2

FIELD NOTES & REMARKS:

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

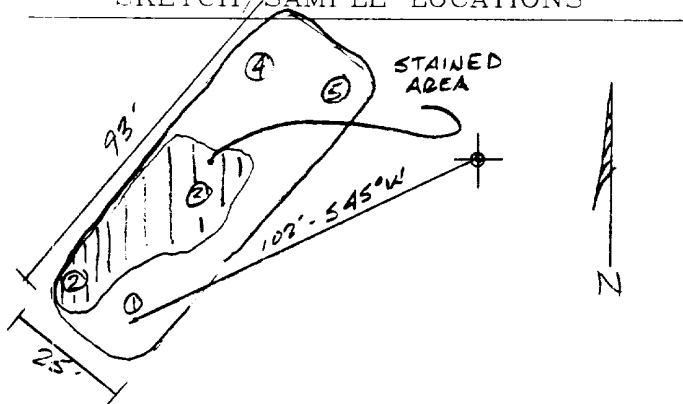
MODERATE YELLOWISH BROWN SAND, NON COHESIVE. SLIGHTLY MOIST - MOIST, FIRM
LARGE AREA OF STAINING OBSERVED IN LANDFARM AREA HC ODOR DETECTED
IN SAMPLING POINTS: - ② + ③. (SEE SKETCH BELOW) SAMPLING DEPTHS RANGE FROM
6" - 18" COLLECTED A SPT. COMPOSITE SAMPLE FOR LAB ANALYSIS.

CLOSED

FIELD 418.1 CALCULATIONS

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

SKETCH / SAMPLE LOCATIONS



LF - 2 SAMPLED ON 6/14/99

OVM RESULTS

LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
LF-1	58.8	LF-1	TPH (BOLIS)	1325	19,100
		LF-2	TPH (BOLIS)	1250	1,650

SCALE

0 FT

TRAVEL NOTES:

CALLOUT: NAONSITE: 5.6.99

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

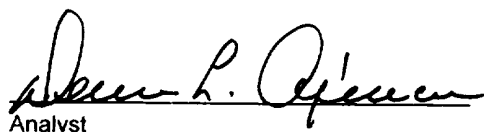
Client:	Blagg / Amoco	Project #:	403410
Sample ID:	LF - 1	Date Reported:	05-07-99
Laboratory Number:	F169	Date Sampled:	05-06-99
Chain of Custody No:	6912	Date Received:	05-07-99
Sample Matrix:	Soil	Date Extracted:	05-07-99
Preservative:	Cool	Date Analyzed:	05-07-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

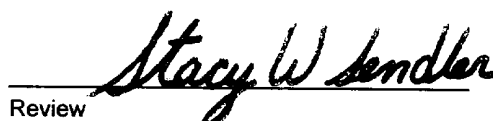
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	235	0.2
Diesel Range (C10 - C28)	18,860	0.1
Total Petroleum Hydrocarbons	19,100	0.2

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 - 30 Landfarm. 5 Pt. Composite.


Analyst


Review

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

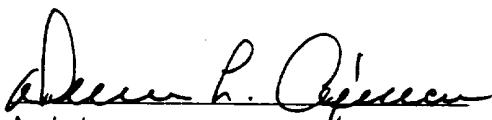
Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	LF - 2	Date Reported:	06-16-99
Laboratory Number:	F514	Date Sampled:	06-14-99
Chain of Custody No:	7080	Date Received:	06-15-99
Sample Matrix:	Soil	Date Extracted:	06-16-99
Preservative:	Cool	Date Analyzed:	06-16-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	23.5	0.2
Diesel Range (C10 - C28)	1,630	0.1
Total Petroleum Hydrocarbons	1,650	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.

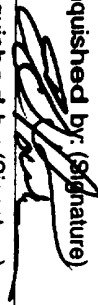
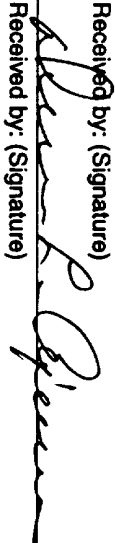
Comments: Jicarilla Contract 146 - 30 Landfarm. 5 Pt. Composite.


Analyst


Review

CHAIN OF CUSTODY RECORD

6912

Client / Project Name BLAES / AHOCO			Project Location CANDREARY			ANALYSIS / PARAMETERS					
Sampler: REP			Client No. 04634.10			No. of Containers TPH (8015)					
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	Remarks						
LF-1	5.6.99	1525	FL69	SOIL	SPT. COMPOSITE.						
					SAMPLE PRESERVED						
					COOL						
Relinquished by: (Signature) 			Date	Time	Received by: (Signature) 	Date	Time	Sample Receipt			
Relinquished by: (Signature)			5.7.99	7:15		5.7.99	7:15	Y	N	N/A	
Relinquished by: (Signature)					Received by: (Signature)						
Relinquished by: (Signature)					Received by: (Signature)						

ENVIROTECH INC.
 5796 U.S. Highway 64
 Farmington, New Mexico 87401
 (505) 632-0615

Received Intact	<input checked="" type="checkbox"/>
Cool - Ice/Blue Ice	<input checked="" type="checkbox"/>

7080

[illegible]