

15/04/2000
SEP 08 1999

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

Blow - Risk below
BT566
SUBMIT 1 COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION
Sep - Risk below

PIT REMEDIATION AND CLOSURE 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 148 - 25</u>			
Location: Unit or Qtr/Qtr Sec <u>A</u> Sec <u>15</u> T <u>25N</u> R <u>5W</u> County <u>RIO ARriba</u>			
Pit Type: Separator <input type="checkbox"/> Dehydrator <input type="checkbox"/> Other <u>BLOW</u>			
Land Type: <u>RANGE</u>			
Pit Location: (Attach diagram)		Pit dimensions: length <u>42'</u> , width <u>38'</u> , depth <u>4'</u>	
		Reference: wellhead <u>X</u> , other _____	
		Footage from reference: <u>85'</u>	
		Direction from reference: <u>47</u> Degrees _____ East North <u>X</u> <u>X</u> West South _____	
Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of groundwater)		RECEIVED AUG 24 1999 OIL CON. DIV. DIST. 3	
		Less than 50 feet	(20 points)
		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)
		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)
		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)
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)
RANKING SCORE (TOTAL POINTS): <u>0</u>			

BT566

Blow PIT

Date Remediation Started: _____

Date Completed: 6/16/98Remediation Method: Excavation ☒Approx. cubic yards 175check 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, EXCAVATION MOSTLY BEDROCK,THEREFORE NO TPH ANALYSIS WAS CONDUCTED.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 4' (PIT BOTTOM)Sample date 6/16/98 Sample time 0915

Sample Results

Soil: Benzene	(ppm)	_____	Water: Benzene	(ppb)	_____
Total BTEX	(ppm)	_____	Toluene	(ppb)	_____
Field Headspace	(ppm)	<u>796</u>	Ethylbenzene	(ppb)	_____
TPH	(ppm)	<u>NA</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

6/16/98

PRINTED NAME

Buddy D. Shaw

SIGNATURE

Buddy D. Shaw

AND TITLE

Environmental CoordinatorAFTER 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:

[Signature]

DATE:

7-27-98

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BJ566</u> C.O.C. NO: _____
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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 CONTR. 148</u> WELL #: <u>25</u> PIT: <u>BLW</u> QUAD/UNIT A SEC: <u>15</u> TWP: <u>25N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u> CTR/FOOTAGE: <u>1120 FNL / 1120 FEL</u> CONTRACTOR: <u>P & S</u>	DATE STARTED: <u>6/16/98</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>
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EXCAVATION APPROX. <u>42</u> FT x <u>38</u> FT x <u>4</u> FT DEEP.	CUBIC YARDAGE: <u>175</u>	
DISPOSAL FACILITY: <u>ON-SITE</u>	REMEDIAATION METHOD: <u>LANDFARM</u>	
LAND USE: <u>RANGE</u>	LEASE: <u>JIC 148</u>	FORMATION: <u>CK/PC</u>

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>85</u> FT. <u>N47W</u> FROM WELLHEAD. DEPTH TO GROUNDWATER: <u>>100'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u> NMCD RANKING SCORE: <u>0</u> NMCD TPH CLOSURE STD: <u>5000</u> PPM	CHECK ONE: <input checked="" type="checkbox"/> PIT ABANDONED <input type="checkbox"/> STEEL TANK INSTALLED <input type="checkbox"/> FIBERGLASS TANK INSTALLED
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SOIL AND EXCAVATION DESCRIPTION:

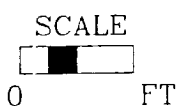
EXCAVATION CONSIST OF MOSTLY BEDROCK (SANDSTONE) BEDROCK OBSERVED ON SIDEWALLS UNIFORMLY LT. GRAY IN COLOR, PIT BOTTOM DUE TO LT. GRAY FRIBBLE ON SIDEWALLS TO VERY HARD @ PIT BOTTOM, ALL OVM SAMPLES COLLECTED CONSISTED ON BEDROCK THEREFORE NO TPH ANALYSIS WAS CONDUCTED, STRONG HC ODOR IN PIT BOTTOM OVM SAMPLE ONLY.

EXCAVATION
MOSTLY
BEDROCK

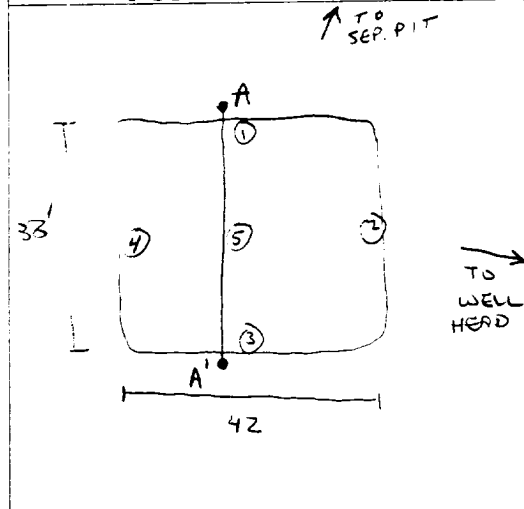
RISK ASSESSED

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
0915							



PIT PERIMETER

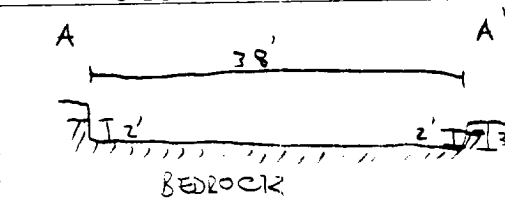


OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 @ 3'	0.0
2 @ 3'	0.0
3 @ 3'	0.0
4 @ 3'	0.0
5 @ 4'	796

LAB SAMPLES		
SAMPLE ID	ANALYSIS	TIME

PIT PROFILE



TRAVEL NOTES: CALLOUT: <u>6/16/98 - MORN.</u>	ONSITE: <u>6/16/98 - MORN.</u>
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Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla Contract 148 #25

Unit A, Sec. 15, T25N, R5W

Blow Pit

Chacra

Non Vulnerable

> 1000 ft.

> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe encountered sandstone bedrock at 4 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 sandstone bedrock located 4 feet below grade. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below sandstone 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 0.74 miles east southeast 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 the sandstone 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.

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

87566

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 148 - 25

Location: Unit or Qtr/Qtr Sec A Sec 15 T ZSN R Sw County RIO ARriba

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

Land Type: RANGE

Pit Location:
(Attach diagram)

Pit dimensions: length 45', width 60', depth 12'

Reference: wellhead ☒, other ☐

Footage from reference: 168'

Direction from reference: 7 Degrees ☒ East ☒ 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)	<u>0</u>
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)	<u>0</u>
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)	<u>0</u>
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)	<u>0</u>
No	(0 points)	

Distance To Surface Water:

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

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

RANKING SCORE (TOTAL POINTS): 0

BTSGG

SEP. PIT

Date Remediation Started: _____ Date Completed: 6/16/98

Remediation Method: Excavation ☒ Approx. cubic yards 700
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. EXCAVATION MOSTLY BEDROCK, THEREFORE NO TPH ANALYSIS WAS CONDUCTED. 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 SIDEWALL)

Sample date 6/16/98 Sample time 0830

Sample Results

Soil: Benzene (ppm)	_____	Water: Benzene (ppb)	_____
Total BTEX (ppm)	_____	Toluene (ppb)	_____
Field Headspace (ppm)	<u>157.3</u>	<u>At Bottom 0.0</u> Ethylbenzene (ppb)	_____
TPH (ppm)	<u>NA</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 6/16/98 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. M... DATE: 5-27-98

3003922525

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BT566</u> C.D.C. NO: _____																																								
FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																																								
LOCATION: NAME: <u>JICA</u> CONTR. <u>148</u> WELL # <u>25</u> PIT: <u>SEP</u>		DATE STARTED: <u>6/16/98</u> DATE FINISHED: _____																																								
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DISPOSAL FACILITY: <u>ON-SITE</u> REMEDIATION METHOD: <u>LANDFARM</u>																																										
LAND USE: <u>RANGE</u> LEASE: <u>JIC 148</u> FORMATION: <u>CL/PL</u>																																										
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>168</u> FT. <u>N7E</u> FROM WELLHEAD.																																										
DEPTH TO GROUNDWATER: <u>>100'</u> NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u>																																										
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TRAVEL NOTES: CALLOUT: <u>6/16/98-MORN.</u> ONSITE: <u>6/16/98-MORN.</u>																																										

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla Contract 148 #25

Unit A, Sec. 15, T25N, R5W

Separator Pit

Chacra

Non Vulnerable

> 1000 ft.

> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe encountered sandstone bedrock at 12 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 sandstone bedrock located 12 feet below grade. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below sandstone 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 0.74 miles east southeast 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 lateral impact from the earthen pit is very limited and that the sandstone 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.

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: AMOCO PRODUCTION COMPANY Telephone: (505) 326-9200
Address: 200 Amoco Court, Farmington, NM 87401
Facility or Well Name: JICARILLA CONTRACT 148-25
Location: Unit or Qtr/Qtr Sec A Sec 15 T 25N R 5W County RIO ARIZONA
Land Type: RANGE

Date Remediation Started: 6-14-98 Date Completed: 1-20-99
Remediation Method: Landfarmed ☒ Approx. cubic yards 875
Composted ☐
Other ☐

Distance To Groundwater: (pts.) 0
Distance to an Ephemeral Stream (pts.) 0
Distance to Nearest Lake, Playa, or Watering Pond (pts.) 0
Wellhead Protection Area: (pts.) 0
Distance To Surface Water: (pts.) 0

Final Closure Sampling:

Sampling Date: 1-18-99 Time: 1030
Sample Results:
Field Headspace (ppm) 0.0
TPH (ppm) 168 Method 8015
Other ☐

RANKING SCORE (TOTAL POINTS): 0

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

DATE 1/20/99 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: 3-31-99

CLIENT: AMOCOBLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199LOCATION NO: B5546C.D.C. NO: 6553

FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: SICARILLA CONTRACT 148 WELL #: 25 PITS: SEP. BLOW
QUAD/UNIT: A SEC: 15 TWP: 25N RNG: 5W PM: NM CNTY: 2A ST: NM
DTE/FOOTAGE: NE/4 NE/4 CONTRACTOR:DATE STARTED: 1.18.99DATE FINISHED: 1.20.99ENVIRONMENTAL
SPECIALIST: REP

SOIL REMEDIATION:

REMEDICATION SYSTEM: LANDFARMAPPROX. CUBIC YARDAGE: 875LAND USE: RANGELIFT DEPTH (ft): 1-2

FIELD NOTES & REMARKS:

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

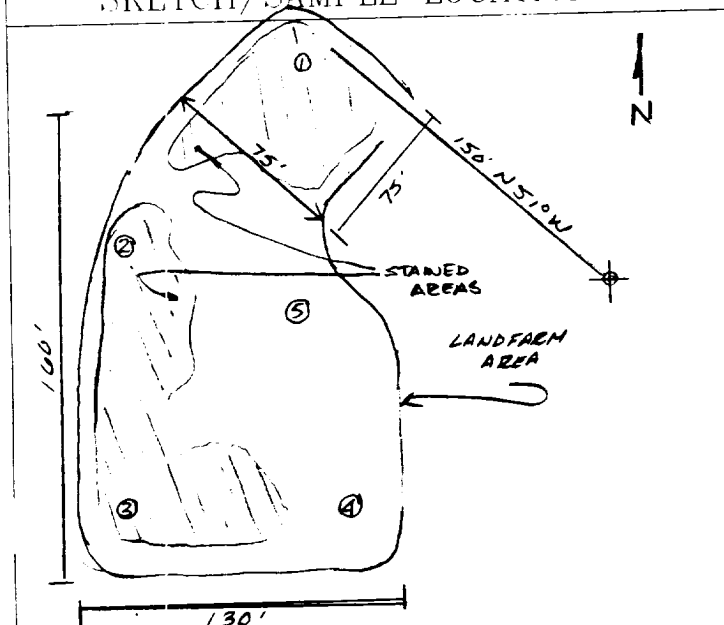
CLOSED

PALE YELLOWISH BROWN SAND NON COHESIVE, SLIGHTLY MOIST, FIRM
TWO LARGE AREAS OF STAINING OBSERVED IN LANDFARM AREA, (SEE SKETCH BELOW)
NO H₂S ODOR DETECTED, SAMPLING DEPTHS RANGE FROM 6" - 18". TOOK A 5 PT
COMPOSITE SAMPLE FOR LAB. ANALYSIS.

FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMPLE ID	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 (8015)	1030	1108

SCALE

0 FT

TRAVEL NOTES:

CALLOUT: N/AONSITE: 1.18.99

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: E536
Chain of Custody No: 6553
Sample Matrix: Soil
Preservative: Cool
Condition: Cool and Intact

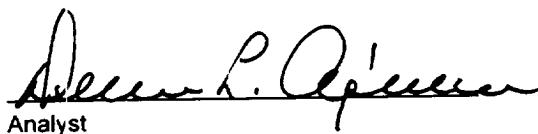
Project #: 04034-10
Date Reported: 01-20-99
Date Sampled: 01-18-99
Date Received: 01-19-99
Date Extracted: 01-20-99
Date Analyzed: 01-20-99
Analysis Requested: 8015 TPH

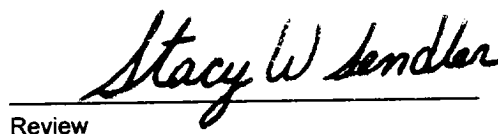
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2.1	0.2
Diesel Range (C10 - C28)	166	0.1
Total Petroleum Hydrocarbons	168	0.2

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 148 - 25 Landfarm. 5 Pt. Composite.


Analyst


Review

6553

	Y	N	N/A
Received Intact	✓		
Cool - Ice/Blue Ice	✓		