

Benjamin L. Frost
DEPUTY OIL & GAS INSPECTOR

OCT 08 1999

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

Blow - OK
BJ553

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

Sep -
risky bedrock

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 - 26
Location: Unit or Qtr/Qtr Sec H Sec H T 25N R 5W County RIO ARriba
Pit Type: Separator Dehydrator Other BLOW
Land Type: RANGE

Pit Location: Pit dimensions: length 21', width 21', depth 19'
(Attach diagram) Reference: wellhead X, other
Footage from reference: 90
Direction from reference: 19 Degrees East of North
X 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)	<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)	
	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

Date Remediation Started: _____ Date Completed: 5/4/98

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

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 5/4/98 Sample time 1015

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 5/4/98 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: Kee C. Marshall DATE: 5-7-98

CLIENT: AMOCO

BLAGG ENGINEERING, INC.
P.O. BOX 87, BLOOMFIELD, NM 87413
(505) 632-1199

LOCATION NO: 87553
C.D.C. NO: _____

FIELD REPORT: CLOSURE VERIFICATION

PAGE No: 1 of 1

LOCATION: NAME: JICA CONTR. 148 WELL #: 26 PIT: 8LOW
QUAD/UNIT: H SEC: 14 TWP: 25N RNG: 5W PM: NM CNTY: RA ST: NM
QTR/FOOTAGE: SE/4 NE/4 CONTRACTOR: P&S

DATE STARTED: 5/4/98
DATE FINISHED: _____
ENVIRONMENTAL SPECIALIST: NV

EXCAVATION APPROX. 21 FT. x 21 FT. x 19 FT. DEEP. CUBIC YARDAGE: 300
DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LANDFARMED
LAND USE: RANGE LEASE: JICA 148 FORMATION: CK/PC

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 90 FT. 319W FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'
NMOC RANKING SCORE: 0 NMOC TPH CLOSURE STD: 5000 PPM

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

SOIL AND EXCAVATION DESCRIPTION:

MOSTLY MOD. TO DK. YELL. SAND NON COHESIVE SLIGHTLY MOIST FIRM, NO APPARENT STAINING OR HC ODOR OBSERVED W/IN EXCAVATION, NO APPARENT HC ODOR IN ANY OF THE OVM SAMPLES.

CLOSED

SCALE
0 FT

PIT PERIMETER

FIELD 418.1 CALCULATIONS

TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
1015	③ e21'	TPH-1973	5	20	1:1	5	ND

OVM RESULTS

SAMPLE ID	FIELD HEADSPACE PID (ppm)
1 e14'	0.0
2 e14'	0.0
3 e14'	0.0
4 e13'	0.0
5 e21	0.0

LAB SAMPLES

SAMPLE ID	ANALYSIS	TIME

PIT PROFILE

TRAVEL NOTES: CALLOUT: 5/2/98 - MORN. ONSITE: 5/4/98 - MORN.

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 @ 21'	Date Analyzed:	05-04-98
Project Location:	Jicarilla Contract 148 - 26	Date Reported:	05-04-98
Laboratory Number:	TPH-1973	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.
	1684	1712	1.65

* 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 - BJ553

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 @ 21'

Jicarilla Contract 148 - 26

TPH-1973

Project #:

Date Analyzed:

Date Reported:

Sample Matrix:

05-04-98

05-04-98

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. -----
	1684	1712	1.65

Comments: *****Max Characters*****

Comments: Blow Pit - BJ553

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

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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 - 26

Location: Unit or Qtr/Qtr Sec H Sec 14 T 25N R 5W County RIO ARriba

Pit Type: Separator ☒ Dehydrator ☐ Other ☐

Land Type: RANGE

Pit Location: (Attach diagram) Pit dimensions: length 23', width 22', depth 19'
Reference: wellhead ☒, other ☐
Footage from reference: 177'
Direction from reference: 40 Degrees ☐ East ☐ North ☒ West ☒ South

Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)	<u>0</u>
Distance to an Ephemeral Stream (Downgradient dry wash greater than ten feet in width)	Less than 100 feet Greater than 100 feet	(10 points) (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 Greater than 100 feet	(10 points) (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 No	(20 points) (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 100 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) (0 points)	<u>0</u>

RANKING SCORE (TOTAL POINTS): 0

BJ553

SEP. PIT

Date Remediation Started: _____

Date Completed: _____

5/5/98

Remediation Method:

Excavation

☒Check all appropriate
actions)

Landfarmed

☒

Other _____

Approx. cubic yards

300

Insitu Bioremediation _____

Remediation Location:

Onsite

☒

Offsite _____

(i.e. landfarmed onsite,
name and location of
offsite facility)General Description of Remedial Action: Excavation. BEDROCK BOTTOM. WEST SIDEWALL
SAPPOYED W/ FERTILIZER. RISK ASSESSED.

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 13' (WEST SIDEWALL)Sample date 5/4/98Sample time 1100

Sample Results

Soil: Benzene

(ppm)

0.541

Water: Benzene

(ppb)

Total BTEX

(ppm)

50.45

Toluene

(ppb)

Field Headspace

(ppm)

1,478

Ethylbenzene

(ppb)

TPH

(ppm)

4,820

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

5/5/98

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. Marshall

DATE:

5-7-98

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>BJ553</u> C.O.C. NO: <u>5765</u>																																
FIELD REPORT: CLOSURE VERIFICATION		PAGE No: <u>1</u> of <u>1</u>																																
LOCATION: NAME: <u>JICA CONTR. 148</u> WELL #: <u>26</u> PIT: <u>SEP</u> QUAD/UNIT: <u>H</u> SEC: <u>14</u> TWP: <u>Z5N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u> QTR/FOOTAGE: <u>SE/4 NE/4</u> CONTRACTOR: <u>P&S</u>		DATE STARTED: <u>5/4/98</u> DATE FINISHED: _____ ENVIRONMENTAL SPECIALIST: <u>NV</u>																																
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FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY <u>177</u> FT. <u>540W</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:																																		
<p> SIDEWALLS - mostly mod. to dk. yell. brown sand, non cohesive, slightly moist firm. no apparent staining observed w/in excavation, HC odor was observed w/in excavation. south sidewall consisted of silty clay, slightly plastic strong HC odor in north & west sidewall ovm samples only. BOTTOM - lt. gray bedrock (sandstone), very hard, no apparent HC odor observed in ovm sample. </p> <div style="display: flex; justify-content: space-between;"> <div style="border: 1px solid black; padding: 5px;">BEDROCK BOTTOM</div> <div style="border: 1px solid black; border-radius: 15px; padding: 5px;">Risk Assessed</div> </div>																																		
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <p>SCALE</p> <p>0 FT</p> </div> <div style="width: 60%;"> <p>FIELD 418.1 CALCULATIONS</p> <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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TRAVEL NOTES: CALLOUT: <u>5/2/98 - morn.</u> ONSITE: <u>5/4/98 - morn.</u>																																		

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla Contract 148 #26

Unit H, Sec. 14, T25N, R5W

Separator Pit

Chacra/Pictured Cliffs

Non Vulnerable

> 1000 ft.

> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe encountered sandstone bedrock at 19 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 19 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 0.5 miles north of the nearest vulnerable area boundary (Lapis Valley 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.

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

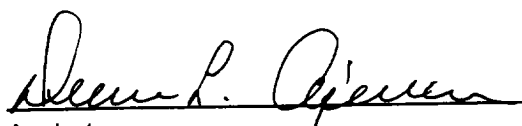
Client:	Blagg / Amoco	Project #:	04034-10
Sample ID:	4 @ 13'	Date Reported:	05-06-98
Laboratory Number:	D221	Date Sampled:	05-04-98
Chain of Custody No:	5765	Date Received:	05-04-98
Sample Matrix:	Soil	Date Extracted:	05-05-98
Preservative:	Cool	Date Analyzed:	05-05-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

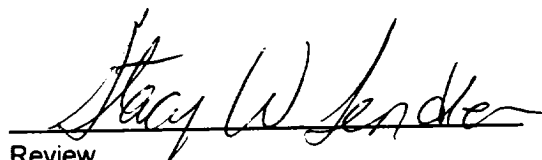
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	4,800	0.2
Diesel Range (C10 - C28)	24.1	0.1
Total Petroleum Hydrocarbons	4,820	0.2

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 148-26 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:	4 @ 13'	Date Reported:	05-06-98
Laboratory Number:	D221	Date Sampled:	05-04-98
Chain of Custody:	5765	Date Received:	05-04-98
Sample Matrix:	Soil	Date Analyzed:	05-05-98
Preservative:	Cool	Date Extracted:	05-05-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	541	17.5
Toluene	11,250	16.7
Ethylbenzene	4,870	15.2
p,m-Xylene	22,940	21.6
o-Xylene	10,850	10.4
Total BTEX	50,450	

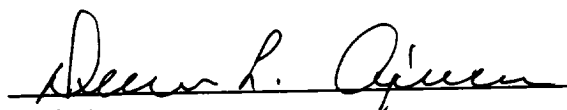
ND - Parameter not detected at the stated detection limit.

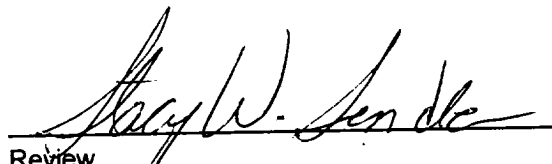
Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromofluorobenzene	97 %

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 148-26 Separator Pit.


Analyst


Review

(505) 632-0615

B5552
SUBMIT 1 COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

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

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 148-20
Location: Unit or Qtr/Qtr Sec 11 Sec 14 T 25N R 5W County RIO ARIZONA
Land Type: RANGE

Date Remediation Started: 5-4-98 Date Completed: 11/12/99
Remediation Method: Landfarmed ☒ Approx. cubic yards 600
Composted ☐
Other ☐

Depth 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

RANKING SCORE (TOTAL POINTS): 0

Final Closure Sampling:

Sampling Date: 1-7-99 Time: 1045

Sample Results:

Field Headspace (ppm) 0.0
TPH (ppm) 40.1 Method 8015
Other ☐

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

DATE 11/12/99 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: _____ DATE: _____

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>B3552</u> C.O.C. NO: <u>6537</u>
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FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION			
LOCATION: NAME: <u>SICABILLA CONTRACT 148</u> WELL #: <u>26</u>	PITS: <u>SEP, BLOW</u>	DATE STARTED: <u>1-7-99</u>	DATE FINISHED: <u>1/12/99</u>
QUAD/UNIT: <u>H</u> SEC: <u>14</u> TWP: <u>25N</u> RNG: <u>5W</u> PM: <u>NM</u> CNTY: <u>RA</u> ST: <u>NM</u>	ENVIRONMENTAL SPECIALIST: <u>REP</u>		
QTR/FOOTAGE: <u>SE/4 NE/4</u> CONTRACTOR: <u>P+S</u>			

SOIL REMEDIATION:	APPROX. CUBIC YARDAGE: <u>600</u>
REMEDATION SYSTEM: <u>LANDFARM</u>	LIFT DEPTH (ft): <u>1-1/2</u>
LAND USE: <u>RANGE</u>	

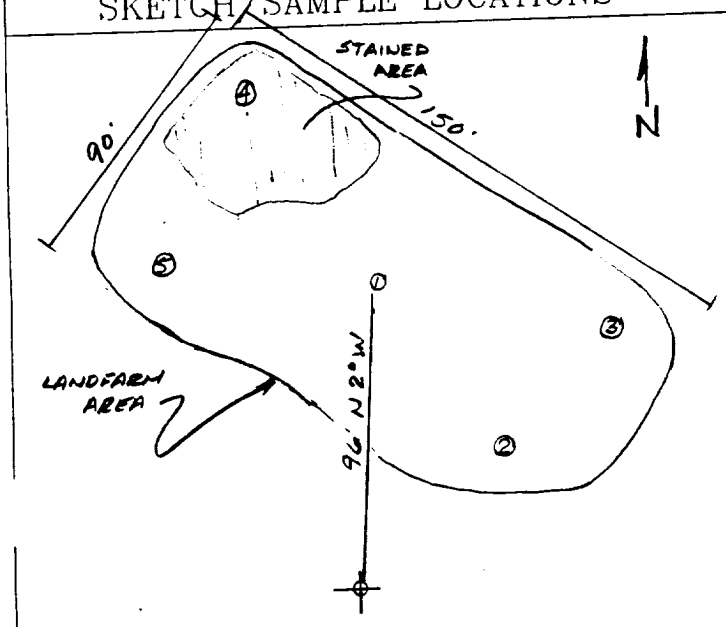
FIELD NOTES & REMARKS:	
DEPTH TO GROUNDWATER: <u>>100'</u>	NEAREST WATER SOURCE: <u>>1000'</u> NEAREST SURFACE WATER: <u>>1000'</u>
NMDCD RANKING SCORE: <u>0</u> NMDCD TPH CLOSURE STD: <u>5000</u> PPM	
<i>DK. YELLOW ORANGE TO BROWN SAND, NON COHESIVE, SLIGHTLY MOIST, FIRM LARGE AREA OF STAINING OBSERVED (SEE SKETCH BELOW) H.C. DOOR FROM SAMPLE POINT ④. SAMPLING DEPTHS RANGE FROM 6" - 18" TOOK A SPT. COMPOSITE SAMPLE FOR LAB ANALYSIS.</i>	

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 (0015)	1045	40.1

SCALE



TRAVEL NOTES: CALLOUT: <u>N/A</u>	ONSITE: <u>1-7-99</u>
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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

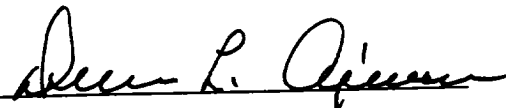
Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	01-11-99
Laboratory Number:	E482	Date Sampled:	01-07-99
Chain of Custody No:	6537	Date Received:	01-08-99
Sample Matrix:	Soil	Date Extracted:	01-11-99
Preservative:	Cool	Date Analyzed:	01-11-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH


Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	10.9	0.2
Diesel Range (C10 - C28)	29.2	0.1
Total Petroleum Hydrocarbons	40.1	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 - 26 Landfarm. 5 Pt. Composite.


Analyst


Review

6537

Ray Co Co's 6536-4540