00T 0 5 1999

JERUTY OIL & CAS INSPECTOR JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P.O. BOX 507 JICARILLA APACHE TRIBE

DULCE, NEW MEXICO 87528

BJ548

SUBMIT 1 COPY TO

NATURAL RESOURCE DEPT

AND OIL & GAS ADMINISTRATION

Blow (II) - OK Blow (II) - OK SEP/Tank Dram - OK

PIT REMEDIATION AND CLOSURE REPORT

	(505) 200 0200
Operator: AMOCO PRODUCTION COMPANY	Telephone: (505)326-9200
Address: 200 Amoco Court, Farmington, NM	87401
Facility or Well Name: JICARILLA CONTRACT	
Location: Unit or Qtr/Qtr Sec_6 Sec_24 T25N	RSW County KIO ARRIBA
Pit Type: Separator Dehydrator Other But	νω (I)
D2 1-	
Land Type: KHNGE	
	, width 30', depth 20'
(Attach diagram) Reference: wellhead X, other	er
Footage from reference: /60/	
Direction from reference: ZZ	Degrees East North
	× West South ×
high water elevation of	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 SurfaceWater: (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)
RA	NKING SCORE (TOTAL POINTS):

DATE: 4-29-98

· ·	•

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.O.C. NO: 5749
FIELD REPORT: CLOSURE VERIFICATION LOCATION: NAME: TICA: CONTR. 148 WELL #: 42 PIT: \$LOW (I) QUAD/UNIT: & SEC: 27 TWP: ZSN RNG: SW PM: NM CNTY: RA ST: NM OTR/FOOTAGE: SW 4 ME 4 CONTRACTOR: P&S	PAGE No: _/ of _/_ DATE STARTED: 4/ZZ/98 DATE FINISHED: ENVIRONMENTAL NU
EXCAVATION APPROX. 38 FT x 30 FT x 20 FT. DEEP. CUBIC DISPOSAL FACILITY: 0N-SITE REMEDIATION METHOL LAND USE: RANGE LEASE: TIC 148 FOIL FOLLOWING THE REMEDIATION FOIL REPORTS AND REMARKS: PUT LOCATED APPROXIMATELY 160 FT.	RMATION: OK SZZW FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >7000' NEAREST SURFACE NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM SOIL AND EXCAVATION DESCRIPTION:	CHECK ONE: PIT ABANDONED STEEL TANK INSTALLED FIBERGLASS TANK INSTALLED
MOSTLY OK. YELL. BROWN SAND, NON COHESIVE, SLIGHTLY MOISOLATED PATCHES OF STRINING ON SOUTH SIDEWAL DNLY, ODOR OBSERVED WIN EXCAUATION, HE ODOR DETECTOR OWN SAMPLE ONLY.	NO APPARENT HE IN SOUTH SIDEWALL
SCALE OFT PIT PERIMETER N FIELD 418.1 CALCULATIONS FIELD 418.1 CALCULATIONS WEIGHT (g) ml. FREON D ZO PIT PERIMETER N PIT	ILUTION READING CALC. ppm 1: 1 5 ND PROFILE
OVM RESULTS SAMPLE FIELD HEADSPACE PID (ppm.) 1 e (6 0.0 2 e 13' 0.0 3 e 15' 99. 4' 4 e 15' 0.0	A'
A 3 A SAMPLES SAMPLE ANALYSIS TIME	
TRAVEL NOTES: CALLOUT: 4/21/98 - AFTER . ONSITE: 4/22/98 -	- AFTER -



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix: Preservative:	Blagg / AMOCO 3 @ 15' D144 5749 Soil Cool	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	04034-10 04-24-98 04-22-98 04-23-98 04-23-98 04-23-98 8015 TPH
Condition:	Cool and Intact	Analysis Requested:	8015 IPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	133	0.2
Diesel Range (C10 - C28)	842	0.1
Total Petroleum Hydrocarbons	975	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 148-42 Blow Pit (1).

Analyst A. Oferen

Stacy W Sendler
Review

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

5 @ 23'

Project #: Date Analyzed:

Sample ID:

Jicarilla Contract 148 - 42

Date Reported:

04 - 22 - 9804 - 22 - 98

Project Location: Laboratory Number:

TPH-1960

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	Duplicate	% * Diff.
TPH mg/kg ———————	TPH mg/kg 	
608	568	6.80

^{*}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 (I) - BJ548

Review

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632-1199 Fax: (505)632-3903

Field TPH-Worksheet

Max Characters:

Client:

AMOCO

Sample ID:

5 @ 23'

Project Location:

TPH-1960

Laboratory Number:

Jicarilla Contract 148 - 42

Date Reported: Sample Matrix:

Date Analyzed:

Project #:

04 - 22 - 9804 - 22 - 98

Soil

Sample Weight:

5.00 grams 20.00 mL

Volume Freon: 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.

608

568

6.80

Comments:

Comments:

Blow Pit (1) - BJ548

Relinquished by: (Signature)	Relinquished by: (Signature)	Relinquished by: (Signature)								@ 15' 4/22/98	Sample No./ Sample So	Mehon Old	Sampler: (Signature)	SLAGG/ Amoco	Client/Project Name	
													Chain	Jia	Projec	
	4									7411	ab Number	01-45040	of Custody Tape N	PRILLEA CON		Ç
	8110	Date Time F								5012	Sample Matrix			L	SLOW PIT(I)	IAIN OF CUST
leceived by: (Si	aceived by: (Si	ed by: (SI								1					<u>-</u>	DUY KE
gnature)	gnature)	ECE VED pnature)			-					<	(80,	H 15)				COKD
	Que	0 00													ANALYS	
	i i) WTRE													SIS/PARAME	
		A A								4					TERS	
	4.23	Date								ESTA			Remar			
		e Time								COOL			ks			
	Relinquished by: (Signature)	WAZ 198 0718 WAZ Signatur	Date Time Received by: (Signature) ULL H23/98 07/8 Received by: (Signature) Received by: (Signature) Received by: (Signature)	Date Time Received by: (Signature) #23/98 07/8 Received by: (Signature) Received by: (Signature) Received by: (Signature)	Date Time Received by: (Signature) #23/98 07/8 Received by: (Signature) Received by: (Signature) Received by: (Signature)	Date Time Received by: (Signature) Paceived by: (Signature) Paceived by: (Signature) Paceived by: (Signature)	Date Time Received by: (Signature) Paceived by: (Signature) Paceived by: (Signature) Paceived by: (Signature)	Date Time Received by: (Signature) Paceived by: (Signature) Paceived by: (Signature) Paceived by: (Signature)	Date Time Received by: (Signature) Peceived by: (Signature) Peceived by: (Signature) Peceived by: (Signature)	Date Date Time Received by: (Signature) Paceived by: (Signature)		Sample Sample Lab Number Matrix 25 76 6 6 6 6 76 6 76 6 76 6 76 6 76 6	Sample Sample Lab Number Sample Matrix Sample Sample			### Tical Country Tape No. Chain of Canony Tape No. Chair of Canony Ta

87548

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

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 CONT	RACT 148-42
Location: Unit or Qtr/Qtr Sec_ G Sec_ Z4 T	
Location. One of QuiyQu bec	PLON (TT)
Pit Type: Separator Dehydrator Other	810W (4)
0	
	<u>, </u>
Pit Location: Pit dimensions: length_	30', widthZ/, depthZ_0'
(Attach diagram)	, other
Footage from reference: / /	40
Direction from reference:	60 Degrees East NorthX
1	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)
Distance to an Ephemeral Stream (Downgradient dry wash greater than ten feet in width)	Less than 100 feet (10 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 SurfaceWater: (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):

			BT548	BLOW F	IT (II)
Date Remediation Sta	arted:	Da	ate Completed:	4/2	2/98
Remediation Method:			orox. cubic yards	250	>
Check all appropriate sections)	Landfarmed X				
Joed (AL)	Other				
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility)	: Onsite X Offsite				
General Description o	of Remedial Action: Exc	cavation &	DROCK BOTT	6m.	
Groundwater Encoun	tered: No _X_	Yes D	epth		
Final Pit: Closure Sampling: (if multiple samples,	Sample location see At				
attach sample results and diagram of sample	Sample depth16'	(WEST 510	newau)		
locations and depths)	Sample date 4/22				
	Sample Results				
	Soil: Benzene	(ppm)	_ Water: Be	nzene	(ppb)
	Total BTEX	(ppm)	_ То	luene	(ppb)
	Field Headspace	(ppm)	Etl	nylbenzene	(ppb)
		(ppm) <u>40</u>	_ Tot	tal Xylenes	(ppb)
Groundwater Sample	: Yes No _	X (If yes,	attach sample re	esults)	
I HEREBY CERTIFY KNOWLEGE AND B	THAT THE INFORMATION	ON ABOVE IS T	RUE AND COME	PLETE TO	THE BEST OF MY
DATE	4/22/98 PR	INTED NAME	Buddy D. Sh	aw	
SIGNATURE BUS	ly D. Shaw	AND TITLE	Environment	al Coord	inator
AFTER REVIEW OF	THE PIT CLOSURE INFO	RMATION, PIT	CLOSURE IS AI		
APPROVED: YES	NO (REASON)			
SIGNED:	& Moull	DATE: 4	- 29-98		

	2
BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.D.C. NO:
FIELD REPORT: CLOSURE VERIFICATION	PAGE No: of
OCATION: NAME: JICA. CONTR. 148 WELL #: 42 PIT: BLOW (II)	DATE STARTED: 4/22/98
QUAD/UNIT: G SEC: 24 TWP: 25N RNG: 5W PM: NM CNTY: RA ST: NM	ENVIRONMENTAL NV
OTR/FOOTAGE: SW/4 NE/4 CONTRACTOR: PJS EXCAVATION APPROX. 30 FT. x 21 FT. x 20 FT. DEEP. CUBIC	
DISPOSAL FACILITY: ON-SITE REMEDIATION METHO	DD: LANDFA/MED
LAND USE: RANGE LEASE: JIC 148 FO	RMATION: 0K
IELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 140 FT.	NGOW FROM WELLHEAD
DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: >1000 NEAREST SURFA	
Million Parketting Society Communication Com	✓ PIT ABANDONED STEEL TANK INSTALLED
	FIBERGLASS TANK INSTALLED
MOSTLY DR. YELL. BROWN JAND, NON CHESIVE THE DENSE NO APPARENT STAINING OR HE ODOR OBSERV	ED WIN EXCAUATION
,	·
- DOLE DEN DE REDROCK (SANDSTUNE) VERY	HERED NO APPARENT
BOTTOM - PALE OLDINGE BEDROCK (SANDSTUNE) VERY HE DOOR IN OUM SOMPLE	,
BEDROCK CLOSED	
BOTTOM FIELD 4181 CALCULATIONS	DULTION DEADING CALC. CDM
TIME SAMPLE I.D. LAB NO: WEIGHT (g) ml. FREON SCALE 1425 (90) 161 TOH -1962 5 20	1:1 3 ND
O FT PERIMETER PI	
TANK) * OVM	30 '
RESULTS SAMPLE FIELD HEADSPACE	
1 C 16' 0.0	<u></u>
D 2 2 16' 0.0 20' 20' 4 2 16' 0.0	
21 A' T3 50 20' 0.0	77777
3 WELL HAND	BEDROCK
LAB SAMPLES	
SAMPLE ANALYSIS TIME	
ID ANALTSIS TIME	
<u>Ω</u> ANAL 1313 1.0.1.	
TRAVEL NOTES: CALLOUT: 4/21/98 - AFTER. ONSITE: 4/22/98-	

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

4 @ 16'

Project #: Date Analyzed:

04 - 22 - 98

Sample ID: Project Location:

Jicarilla Contract 148 - 42

04 - 22 - 98Date Reported:

Laboratory Number:

TPH-1962

Sample Matrix:

Soil

		Detection
Parameter	Result, mg/kg	Limit, mg/kg
Total Recoverable		22
Petroleum Hydrocarbons	ND	20

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg 608

Duplicate TPH mg/kg 568

% *Diff.

6.80

*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 (II) - BJ548

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632-1199 Fax: (505)632-3903

Field TPH-Worksheet

Client: AMOCO Project #:

Sample ID: Jicarilla Contract 148 – 42 Date Analyzed: 04–22–98

Project Location: Jicarilla Contract 148 – 42 Date Reported: 04–22–98

Laboratory Number: TPH-1962 Sample Matrix: Soil

Sample Weight: 5.00 grams Volume Freon: 20.00 mL

Dilution Factor:

TPH Reading:

1 (unitless)

3 mg/kg

TPH Result:

Reported TPH Result:

Actual Detection Limit:

Reported Detection Limit:

12.0 mg/kg

12 mg/kg

20.0 mg/kg

Comments: Blow Pit (II) - BJ548

87548

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

PIT REMEDIATION AND CLOSURE REPORT

TWO CO. PROPHICATION COMPANY	Telephone: (505)326-9200	
Operator: AMOCO PRODUCTION COMPANY		_
Address: 200 Amoco Court, Farmington, NM	87401	_
Facility or Well Name: TICARILLA CONTRACT	148 - 42	
Location: Unit or Qtr/Qtr Sec & Sec 24 TZ5N	R SW County RIO ARRIBA	_
Pit Type: Separator \(\times \) Dehydrator Other \(\times \cap{Pko} \)		_
2		
	, width 18', depth 9'	
(Attach diagram) Reference: wellhead X, oth	her	
Footage from reference: /35		
Direction from reference: 24	Degrees X East North X	
Direction from forestones.	of 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)	-
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 SurfaceWater: (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)	-
n. RA	ANKING SCORE (TOTAL POINTS):	_

8J548 SEP / PROD. TANK PIT

Date Remediation Sta	nrted: Date Completed:4/zZ/98
Remediation Method:	Excavation Approx. cubic yards
Check all appropriate sections)	Landfarmed X Insitu Bioremediation
,	Other
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility)	: Onsite X Offsite
Conoral Description	of Remedial Action: Excavation. BEDROCK BOTTOM & WEST
General Description	SIDEWALL.
Groundwater Encoun	tered: No Yes Depth
Final Pit: Closure Sampling: (if multiple samples,	Sample location see Attached Documents
attach sample results and diagram of sample	Sample depth4' (NORTH SIDEWALL)
locations and depths)	Sample date $\frac{4/22/98}{}$ Sample time $\frac{/340}{}$
	Sample Results
	Soil: Benzene (ppm) Water: Benzene (ppb)
	Total BTEX (ppm) Toluene (ppb)
	Field Headspace (ppm) Ethylbenzene (ppb)
	TPH (ppm) ND Total Xylenes (ppb)
Groundwater Sample	e: Yes No X (If yes, attach sample results)
KNOWLEGE AND I	Y THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF M BELIEF
DATE	4/22/98, PRINTED NAME Buddy D. Shaw
signature Bus	4/22/98 PRINTED NAME Buddy D. Shaw Oly D. Shaw AND TITLE Environmental Coordinator
A DONE DEVIEW OF	F THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANC A APACHE TRIBE PIT CLOSURE ORDINANCE.
APPROVED: YES_	NO (REASON)
SIGNED:	DATE: 4-29-98

CLIENT AMOCO BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199 C.D.C. ND:
FIELD REPORT: CLOSURE VERIFICATION PAGE NO: / of /
OCATION: NAME: JICA. CONTR. 148 WELL #: 42 PIT: 5EP PROD DATE STARTED: 4/22/48 DATE STRATED: 4/22/48
QUAD/UNIT: G SEC: 24 TWP: 250 RNG: 5W PM: NO CHITEMY SECONDENTIAL NV
18 FT x 18 FT x 9 FT. DEEP. CUBIC YARDAGE: 100
DISPOSAL FACILITY: ON-SITE REMEDIATION METHOD: LAND USE: LEASE: JIC 148 FORMATION: DK
FROM WELLHEAD
NEAREST WATER SOURCE:
NMOCD RANKING SCOPE: NMOCD TPH CLOSURE STD: 5000 PPM SIL AND EXCAVATION DESCRIPTION: STEEL TANK INSTALLED FIBERGLASS TANK INSTALLED
MOSTLY OK YELL. BROWN SAND TO SILTY TAND, NOW TO SLIGHTLY COHESIVE, ORY TO SLIGHTLY MOIST FIRM TO DENSE, NO APPARENT STAINING OR
HE THE DESERVED IN EXCHAPTION WEST SIDEWALL CONSIST OF
THE DUM SOMPLES
BOTTOM - GREENISH GRAY BEDROCK, SHALE SANDSTONE VERY HARD, NO APPARENT NO DOOR OBSERVE) WITH EXCAUPTION OR OWN SAMPLE.
BOTTOM FIELD 418.1 CALCULATIONS FIELD 418.1 CALCULATIONS
SCALE TIME SAMPLE 1.D. LAB NO. WEIGHT (9) III. 1340 De 4' TPH-1961 5 20 1:1 4 NO.
0 FT PIT PROFILE
PIT PERIMETER NOVM A A'
RESULTS SAMPLE FIELD HEADSPACE FIELD HEADSPACE
A PIPING 184' 0.0
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
PROD. BEDROCK
TAUX
LAB SAMPLES SAMPLE ANALYSIS TIME
WELL HEAD
Hen
TRAVEL NOTES: CALLOUT: 4/21/98-AFTER. ONSITE: 4/22/98 - AFTER.

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:

1 @ 4'

Date Analyzed:

04 - 22 - 98

Project Location:

Jicarilla Contract 148 - 42

Date Reported:

04 - 22 - 98

Soil

Laboratory Number:

TPH-1961

Sample Matrix:

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

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
608	568	6.80

^{*}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:

Separator / Production Tank Pit - BJ548

P.O. Box 87, Bloomfield, New Mexico 87413 Phone: (505)632-1199 Fax: (505)632-3903

Field TPH-Worksheet

Client: AMOCO Project #:

Sample ID: 1 @ 4' Date Analyzed: 04-22-98
Project Location: Jicarilla Contract 148 - 42 Date Reported: 04-22-98

Laboratory Number: TPH-1961 Sample Matrix: 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 Duplicate %

TPH mg/kg TPH mg/kg Diff.

608 568 6.80

Comments: Separator / Production Tank Pit - BJ548

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

87548 SUBMIT 1 COPY TO NATURAL RESOURCE DEPT

ON-SITE SOIL REMEDIATION REPORT

Operator: AMOCO PRODUCTION C	COMPANY	Telephone: (505) 326-9200
Operator:	Earmington,	NM 87401
Address: 200 Amoco Court,		CONTRACT # 148-42
Facility or Well Name: <u>JICARICE</u>	A 148 - 42	CONTRAC) # 110
Location: Unit or Qtr/Qtr Sec	Sec_ <u>24</u> _ T_ <u>2</u>	SN R SW County RIO ARRIBA
Land Type: <u>RANGE</u>		
	60	Date Completed: 1 12 99
Date Remediation Started: $\frac{4/22}{}$	98	Approx. cubic yards 1050
Remediation Method: Landfarmed		Approx. cuoto juisto
Composted		
Offici		
epth To Groundwater:	(pts.)	Final Closure Sampling:
Distance to an Ephemeral Stream	(pts.)	Sampling Date: 1/4/99 Time: 1230
Distance to Nearest Lake, Playa,		Sample Results: (LF-1 & LF-2)
or Watering Pond	(pts.)	Field Headspace (ppm) (F-Z)
Wellhead Protection Area:	(pts.) <u>o</u>	TPH (ppm) 943 Method 6073
Distance To SurfaceWater:	(pts.) <u>0</u>	Other MULTIPLE SAMPLES - REFERTO
GOODE (FOTAL POIN	NTS)· D	ATTACHED FORM
RANKING SCORE (TOTAL POIN	ODMATION ABOV	E IS TRUE AND COMPLETE TO THE BEST OF MY
I HEREBY CERTIFY THAT THE INFO KNOWLEGE AND BELIEF		
DATE 1/12/99	, PRINTED!	NAME Buddy D. Shaw
SIGNATURE Bully S.	Shaw	AND TITLE Environmental Cooldinate
, and the second		44 TION ON-SITE REMEDIATION IS APPROVED IN
		MATION, ON-SITE REMEDIATION IS APPROVED IN IT CLOSURE ORDINANCE.
APPROVED: YES NO	(REASON)	
SIGNED: LE CANS	DATI	E: 3-31-99

CLIENT: AMOCO

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

LOCATION NO: 83548

C.O.C. NO: 6324

FIELD RI	EPORT	: LAN	DFARM/	COMPOS	T PILE	CLOST	JRE	VERIFIC.	ATION
LOCATION: NAM	ie: Jvar	CONTINE	8 WELL	#: 42	PITS: 56P.	BLOW, PRO	D. D.	ATE STARTED: ATE FINISHED:	1/4/99
QUAD/UNIT: 0						51.1	Et Si	NVIRONMENTAL PECIALIST:	REP
OFFICE FEMEDIA		NC/-1			<u> </u>				
		YSTEM: 🚣	ANDFARM	1	APPR	OX. CUE	BIC YA	RDAGE: 🔼	050
			PANGE		LIFT	DEPTH	(ft):	1-2.	
FIELD MOTES	& REM	ARKS:						- .	
DEFIN TO GROUNI						NEAREST S	SURFACE	WATER:	000
nnend Faneine s DK Yellow		- TA IT 27	PALLE KALIN	LIDAL PAHES	1115 SLIGH	ITLY MOIS	T. FIRM	٠.	
NO STAINING	OBSER	IVED OR H	IC ODOR DE	TECTED 5	AMPLING D	EPIHS FR	20M - 6	"-18"	
COLLECTED	S PT S	OMPLE FRO	W EACH LA	ND FARM F	OR LAB A	MALYSIS			
CLO	ED								
			FIi	ELD 418.1 CA	LCULATION	S			1
5.	AMP. TIME	SAMPLE LO	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm	
									-
: }-				<u> </u>					
i i									-
									J
SKETC	H/SAM	PLE LO	CATIONS						

_	<u>80'</u>	FLOTP	N
	B 0 1.30°	581°W	LANDFARM #1
$L \setminus$	LANDFARM # 2		1. S.
		105'	
1	·	3	•

	RESULTS		AB S		
SAMPLE	FIELD HEADSPACE	SAMPLE	ANALYSIS	TIME	RI

SAMPLE ID	FIELD HEADSPACE PID (ppm)		SAMPLE ID	ANALYSIS	TIME	RESULTS
	0.0	45	- /	(BOIS)	1200	54,7
LF · 1 LF · 2	0.0	15	.2	11 "	1230	943
<u> </u>						
		╢				
		╢		 		
				İ		

SCALE FT

1.499

CALLOUT: NA ONSITE: __ TRAVEL NOTES:



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / AMOCO	Project #:	04034-10 01-06-99
Sample ID:	LF - 1	Date Reported:	• • • • • •
Laboratory Number:	E448	Date Sampled:	01-04-99
Chain of Custody No:	6324	Date Received:	01-05-99
Sample Matrix:	Soil	Date Extracted:	01-05-99
•	Cool	Date Analyzed:	01-06-99
Preservative:		Analysis Requested:	8015 TPH
Condition:	Cool and Intact	Allalysis resquestion	

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	6.6	0.2
Diesel Range (C10 - C28)	48.1	0.1
Total Petroleum Hydrocarbons	54.7	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 - 42 Landfarm. 5

5 Pt. Composite.

Analyst

Stacy W sendler



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Gasoline Range (C5 - C Diesel Range (C10 - C		939	0.1
Casalina Banga (CE - (°10\	3.6	0.2
Parameter		(mg/Kg)	(mg/Kg)
		Concentration	Det. Limit
Condition:	Cool and intact	Analysis Requested:	8015 TPH
Sample Matrix: Preservative:	Soil Cool	Date Extracted:Date Analyzed:	01-06-99
_aboratory Number: Chain of Custody No:	E449 6324	Date Received:	01-05-99 01-05-99
Client: Sample ID:	Blagg / AMOCO LF - 2	Project #: Date Reported: Date Sampled:	04034-10 01-06-99 01-04-99

ND - Parameter not detected at the stated detection limit.

Total Petroleum Hydrocarbons

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

943

SW-846, USEPA, December 1996.

Comments:

Jicarilla Contract #148 - 42 Landfarm. 5 Pt. Composite.

Analyst

Stacy W Sendler

0.2

CHAIN OF CUSTODY RECORD

Cool - ice/Blue ice	Cool - k	MEXICO 8/401	Farmington, New Mexico 6/401				
Received Intact	Receiv	hway 64	5796 U.S. Highway 64	7	64337	6	
Y Z		= 10			1.52250		Ref Coc's
Sample Receipt		SE DO	EOVIDOTECH IOC		1		2
		Received by: (Signature)	Recei			ature)	Relinquished by: (Signature)
		Received by: (Signature)	Recei			ature)	Relinquished by: (Signature)
79	Lew	Received by: (Signature)	Date Time Receiv 1.5.99 0800	/-		iture)	Relinquished by (Signature)
Data							
PRESERVE-COOL	7						
BOTH SAMPLES							
SPT COHPOSITE	5	7	2016	6443	1230	14.99	1F.2
		•	2016	E44X	1200	1.4.99 1200	1-17
DI MANDISME	N	C	Matrix	Lab Number	Sample	Sample Date	Sample No./ Identification
		No. of ontainer		01-46070		_	Sampron. REP
Remarks				Client No.			Campler:
			JUARILLA CONTEAT M8-42	JEARILLA C		CO	BLAGG/AMOCO
	ANALYSIS / PARAMETERS	AN	MARADIN	Project Location LANDFARH			Client / Project Name