### JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P.O. BOX 507

**DULCE, NEW MEXICO 87528** 

SUBMIT I COPY TO

# PIT REMEDIATION AND CLOSURE REPORT

COMPANY	Telephone:	(505)326-9200
Operator: AMOCO PRODUCTION COMPANY		
200 Amogo Court, Farmington, NM	87401	
THE APPORT	# 102 - 14	
Facility or Well Name:		ARIBA
Vecation: Unit or Otr/Otr Sec F Sec 9 T268	R 40 County A	7/2-
Pit Type: Separator Dehydrator Other_ &_	۵۵	
Land Type: RANGE		
Land Type:		· · · · · · · · · · · · · · · · · · ·
Pit Location: Pit dimensions: length 4/	, ', width4°'	, depth
(Attach diagram)  Reference: wellhead X, or	ther	
Form reference' 168		
Direction from reference: 47	Dagrees Y East	North X
Direction from reference: _ ¬ /	_ Degices o	f South
	West	South
	Less than 50 feet	(20 points)
Depth To Groundwater:	50 feet to 99 feet	(10 points)
(Vertical distance from contaminants to seasonal	Greater than 100 feet	( o points)
high water elevation of		
groundwater)		(10 points)
<u>.</u>	Less than 100 feet	( 0 points)
Distance to an Ephemeral Stream (Downgradient dry wash greater than	Greater than 100 feet	(0)
ten feet in width)		(10 (145)
	Less than 100 feet	(10 points) <b>&gt;</b> (0 points) <b></b>
Distance to Nearest Lake, Playa, or Watering Pond	Greater than 100 feet	( 0 points)
(Downgradient lakes, playas and livestock or wildlife watering ponds)		
	Yes	(20 points)
Wellhead Protection Area:	No	(0 points)
(Less than 200 feet from a private domestic water source, or: less than		
1000 feet from all other water sources)		(00 ints)
1	Less than 100 feet	(20 points) (10 points)
Distance To SurfaceWater:	100 feet to 1000 feet	(0 points)
	Creater than 1000 teet	( 0 pomis) <u>cs</u>
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks,	Greater than 1000 feet	( U pomis)

RANKING SCORE (TOTAL POINTS):

		BJ651 BLOW PIT	
		10/5/98	
	rted:	Approx. cubic yards/, Zoo	
Remediation Method: Check all appropriate	Excavation	Insitu Bioremediation	
sections)	Landfarmed	Insini Bioremediation	
	Other		
Remediation Location: (i.e. landfarmed onsite, name and location of	Onsite <u>×</u> Offsite		
offsite facility)  General Description o	f Remedial Action: Excava	tion. BEDROCK BOTTOM. RISK ASSESSED.	
Groundwater Encount	ered: No 🔀 Yes	Depth	
Final Pit: Closure Sampling: (if multiple samples,	Sample location <u>see Attacl</u>	hed Documents	
attach sample results	Sample depth 14	EAST SIDENAL)	
and diagram of sample Sample depth 4 Censt Stock Sample time / 330			
	Sample Results		
•	•	Water: Benzene (ppb)	
		Toluene (ppb)	
	Field Headspace (ppm		
	TPH (ppm)	) Not Total Aylenes (1710)	
Groundwater Sample:	Yes No _X	(If yes, attach sample results)	
I HEREBY CERTIFY KNOWLEGE AND BE	THAT THE INFORMATION AI	BOVE IS TRUE AND COMPLETE TO THE BEST OF M	
DATE /	0/5/98 PRINTEI	D NAME Buddy D. Shaw	
SIGNATURE BULL		TITLE Environmental Coordinator	
AFTER REVIEW OF		TION, PIT CLOSURE IS APPROVED IN ACCORDANC	
APPROVED: YES	(REASON)	· · ·	
JIGNED:	Me DAT	TE: 12-28-98	

3003922931 LOCATION NO: 87651 BLAGG ENGINEERING, INC. CLIENT: AMOCO P.O. BOX 87, BLOOMFIELD, NM 87413 C.D.C. ND: \_\_\_\_\_ (505) 632-1199FIELD REPORT: CLOSURE VERIFICATION PAGE No: 1 of 1 DATE STARTED: 10 5 98 LOCATION: NAME: JICA AP 102 WELL #: 14 PIT: BLOW DATE FINISHED: \_ QUAD/UNIT: F SEC: 9 TWP: ZEN RNG: 4W PM: NM CNTY: BA ST:NM ENVIRONMENTAL OTR/FOOTAGE: )620' FAL (1730 FWL CONTRACTOR: P+5 EXCAVATION APPROX. 41 FT. x 40 FT. x 26 FT. DEEP. CUBIC YARDAGE: /200 DISPOSAL FACILITY: 00-5172 TRA AP. 102-18 REMEDIATION METHOD: LANDFARM LEASE: TIC 102 FORMATION: DR LAND USE: RANGE FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 168 FT. N47E FROM WELLHEAD. DEPTH TO GROUNDWATER >100 NEAREST WATER SOURCE >1000 NEAREST SURFACE WATER >1000 NMOCD RANKING SCORE: O NMOCD TPH CLOSURE STD: 5000 PPM V PIT ABANDONED \_\_\_\_ STEEL TANK INSTALLED SOIL AND EXCAVATION DESCRIPTION: \_\_\_\_ FIBERGLASS TANK INSTALLED STAINING OBSERVED IN NOW CORNER OF EXCAVATION SET. 4'-8' BELLE GRADE, NO APPARENT HE ODOR WIN EXCAUPTION OR IN ANY OF THE OUM SAMPLES. BOTTOM - BEDLOCK (SANDSPINE), OLIVE TO MED. GLAY IN COLOR VELY HERD, STRONG HE ODOR IN OUM SAMPLES. RISK ASSESSED BEDROCK FIELD 418.1 CALCULATIONS SAMPLE I.D. LAB No: WEIGHT (g) ML. FREON DILUTION READING CALC. ppm ROTTOM TIMÈ ND 1:1 De14' TPH-2047 1330 **SCALE** 0 PIT PROFILE PIT PERIMETER 10 OVMRESULTS FIELD HEADSPACE SAMPLE 1 @14 0.0 D, D @ 14 3 @ 14' 0.0 0.0 4 @ 15 40 3 الاساده BEDROCK 3LOPE CIRCUT LAB SAMPLES SAMPLE TIME \_\_\_\_ ONSITE: \_10/5/98 TRAVEL NOTES: CALLOUT: \_

Well Name: Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizonal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla Apache 102 #14
Unit F, Sec. 9, T26N, R4W
Blow Pit
Basin Dakota
Non Vulnerable
> 1000 ft.
> 100 ft.

### RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe encountered sandstone bedrock at 20 feet below grade.

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

- Past production fluids were contained locally by a relatively shallow sandstone bedrock located 20 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 <u>non-vulnerable area</u> and is approximately 1.26 miles north of the nearest vulnerable area boundary (Tapacito Creek).

(Refer to <u>Vigas Canyon Quadrangle</u>, New Mexico - Rio Arriba County, 7.5 Minute Series (<u>Topographic</u>), photorevised 1982, (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.

### 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

Sample ID: Project Location:

2 @ 14'

Jicarilla Apache # 102 - 14

Laboratory Number:

Jicarilla Apac TPH-2047 Project #:

Date Analyzed:

10-05-98

Date Reported:

10-05-98

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
230	220	

<sup>\*</sup>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 - BJ651

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

2 @ 14'

Project #:

Sample ID:

Jicarilla Apache # 102 - 14

Date Analyzed: Date Reported: 10-05-98 10-05-98

Project Location: Laboratory Number:

TPH-2047

Sample Matrix:

Soil

Sample Weight: Volume Freon:

5.00 grams 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:

Comments:

Blow Pit - BJ651

# 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

			.00
Operator: AMOCO PRODUCTION COMPANY	Telephone:	(505)326-92	.00
en remination, Nr	4 87401		
TICALILLA APACHE	# 106 - (1		
Scr 9 T	SN R 4W County LIO	ARRIBA	
Pit Type: Separator Dehydrator Other			
1			
Land Type:		01	
	_9', width40'		
(Attach diagram)  Reference: wellhead X,	other		
Footage from reference: 183	3'	_	
Direction from reference: 64	Degrees —— East O	f , v	
			· · · · · · · · · · · · · · · · · · ·
Depth To Groundwater: (Vertical distance from contaminants to seasonal	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) ( 0 points)	<u> </u>
high water elevation of groundwater)  Distance to an Ephemeral Stream (Downgradient dry wash greater than	Less than 100 feet Greater than 100 feet	(10 points) ( 0 points)	0
Distance to Nearest Lake, Playa, or Watering Pond	Less than 100 feet Greater than 100 feet	(10 points) ( 0 points)	0
Wellhead Protection Area: (Less than 200 feet from a private demostic water source, or; less than	Yes No	(20 points) ( 0 points)	<u> </u>
Distance To SurfaceWater: (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)	0
ri	RANKING SCORE (TOTA	L POINTS):	0

		8	TG51 SEY. FII
			cd:10 5 98
Date Remediation Sta	arted:		
Remediation Method:	Excavation	Approx. cubic	yards340
Check all appropriate sections)	Landfarmed _>	Insitu Bioremed	liation
	Other		
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility)			
General Description	of Remedial Action: Exc	avation BEDLOCK	Bottom.
Groundwater Encoun	tered: No <u>×</u>	Yes Depth	
Final Pit: Closure Sampling: (if multiple samples,	Sample location see At		
attach sample results and diagram of sample locations and depths)	Sample depth 4' Sample date 10/3/9	(NORTH SIDEWALL)  8 91 Sample	time 1200
	Sample Results		
	Soil: Benzene	(ppm) O.128 Water	: Benzene (pph)
	Total BTEX	(ppm) 15.370	Toluene (ppb)
	Field Headspace	(ppm) <u>536</u>	Ethylbenzene (ppb)
	ТРН	(ppm) <u>727</u>	Total Xylenes (ppb)
Groundwater Sample	:: Yes No _	(If yes, attach sam	ple results)
I HEREBY CERTIFY KNOWLEGE AND B	THAT THE INFORMATION ELIEF	ON ABOVE IS TRUE AND (	COMPLETE TO THE BEST OF MY
DATE	1017 98 PRI	NTED NAME Buddy D	. Shaw
SIGNATURE BLA		ND TITLE Environ	
APPED DEVIEW OF		RMATION, PIT CLOSURE	IS APPROVED IN ACCORDANCE
APPROVED: YES_	NO (REASON	)	<u> </u>

DATE:

THE CO. THE PROPERTY INC	LOCATION NO BJGS!
BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 8741 (505) 632-1199	3 C.D.C. ND: 6285
FIELD REPORT: CLOSURE VERIFICATION	PAGE No:
LOCATION: NAME: JICA. AP. 102 WELL #: 14 PIT: SEP	DATE STARTED: 10/5/98 DATE FINISHED:
QUAD/UNIT: F SEC: 9 TWP: ZEN RNG: YW PM:NM CNTY: RA ST: N	η
OTR/FUUTAGE: 1620 FNL 1730 FNL CONTRACTOR: 175	SPECIALIST.
THE ADDROY Z9 FT x 40 FT. x 8 FT. DEEP. CUI	BIC YARDAGE: 346
REMEDIATION MET	HOD: ZANOFARIC
LAND USE: RANGE LEASE:	ORMATION: UK
TO THE ADDRESS OF THE PROPERTY IN THE VIEW OF THE PROPERTY IN THE VIEW OF THE PROPERTY IN THE VIEW OF	S64W FROM WELLHEAD.
DEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE:	FACE WATER:
NMOCD RANKING SCORE: NMOCD TPH CLOSURE STD: PPM	PIT ABANDONED
SOIL AND EXCAVATION DESCRIPTION:	STEEL TANK INSTALLED FIBERGLASS TANK INSTALLED
SOTTOM - BEDIEVEK (SANDSTONE) OK HELL ORANGE TO LT. GRAY  SOTTOM - BEDIEVEK (SANDSTONE) OK HELL ORANGE TO LT. GRAY  SUGHT HE ODOR OFFECTED WIND EXCAUATION  BOTTOM - BEDIEVEK (SANDSTONE) OK HELL ORANGE TO LT. GRA  SUGHT HE ODOR IN OUN SAMPLE.	STRINING OBSERVED,  STRING HE OUR
Comment	
FIELD 418.1 CALCULATION	S N DILUTION READING CALC. ppm
SCALE  TIME SAMPLE I.D. LAB NO: WEIGHT (g) mL. FRED	
SCALE	
0 FT	IT PROFILE
PIT PERIMETER 40 OVM	, '
RESULTS A	<u>29'</u> A
Z9 1 10 4 530	
2 @ 4' 43Z 3 @ 4' 258 4 @ 4' 47Z 8'	7,07
SUPE A TO 5 @ 8' 31.9	
K- 3 HEAD	BEDROCIE (55)
40' (\$)	(55)
LAB SAMPLES  SAMPLE ANALYSIS TIME  10  SLOPE 10  SAMPLE ANALYSIS TIME  10  10  10  10  10  10  10  10  10  1	
OC 4 PM 10 10	
(BOH DASSED)	
TRAVEL NOTES:	
TRAVEL NOTES: CALLOUT: 9/29/98 ONSITE: /0/5/98	



### EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix: Preservative:	Blagg / AMOCO 1 @ 4' E032 6285 Soil Cool	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed:	04034-10 10-07-98 10-05-98 10-07-98 10-07-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	221	0.2
Diesel Range (C10 - C28)	506	0.1
Total Petroleum Hydrocarbons	727	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 Apache #102 - 14 Separator Pit.

Analyst P. Office

Stacy W Sendler
Review



## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

ested: BTEX
: 10-07-98
10-07-98
: 10-07-98
10-05-98
10-07-98
04034-10

Parameter	Concentration (ug/Kg)	(ug/Kg)
Benzene	128	8.8
Toluene	1,700	8.4
Ethylbenzene	827	7.6
p,m-Xylene	8,290	10.8
o-Xylene	4,420	5.2
Total BTEX	15,370	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	96 %
	Bromofluorobenzene	96 %

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 Apache #102 - 14 Separator Pit.

Dew P. Quecu

Stacy W Sendler

# CHAIN OF CUSTODY RECORD

5796 U.S. Highway 64 Farmington, New Mexico 87401	1	Pu Cac't 6284-6287 FOVIDOTECH IO	Relinquished by: (Signature)	Relinquished by: (Signature)	Relinquished by: (Signature)    Date   Time   Received by: (Signature)					(1) @ 4' 10/5/98 1200 E032 5012 /	Sample No./ Sample Sample Lab Number Sample C C	Client No.  CY03 4-10  of tainers	SUMEGI AMOCO JICARILA APACHE *102-14	-
64  Received Intact  0 87401  Cool - Ice/Blue Ice	Y Z NA	Sample Receipt	(Signature)	(Signature)	(Signature) Date Time					V V RESERV COOL	74 (80 87 (80	Hemans		

24631

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

SUBMIT 1 COPY TO

NATURAL RESOURCE DEP1

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 APACHE 102	? - 14
Location: Unit or Qtr/Qtr Sec F Sec 9 T2	CON RAW County RIOARRIBA
Land Type:	
Date Remediation Started: 10.5 98	Date Completed:
Remediation Method: Landfarmed	Approx. cubic yards /540
Composted	
Other	
Pepth To Groundwater: (pts.) _o	Final Closure Sampling:
Distance to an Ephemeral Stream (pts.)	Sampling Date: $4.15.99$ Time: $1250$
Distance to Nearest Lake, Playa, or Watering Pond (pts.)	Sample Results: (LF-I)
Wellhead Protection Area: (pts.)O	Field Headspace (ppm) 3.2  (ppm) 5.9 Method 8015
Distance To SurfaceWater: (pts.)	TPH (ppm) S.9 Method 3015  Other MULTIPLE SAMPLES - SEE ATTACHED
RANKING SCORE (TOTAL POINTS):	FORM
I HEREBY CERTIFY THAT THE INFORMATION ABOVE KNOWLEGE AND BELIEF	E IS TRUE AND COMPLETE TO THE BEST OF MY
DATE $\frac{4/19/99}{}$ , PRINTED N	NAME Buddy D. Shaw
SIGNATURE Bully D. Shaw	AND TITLE Environmental Coordinator
AFTER REVIEW OF THE SOIL REMEDIATION INFORM ACCORDANCE TO THE JICARILLA APACHE TRIBE PI	ATION, ON-SITE REMEDIATION IS APPROVED IN CLOSURE ORDINANCE.
APPROVED: YES NO (REASON)	
SIGNED: LE Me DATE	: 6-18-99

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION N	10: <u>BISU</u>
FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE	VERIFIC	ATION
QUAD/UNIT: F SEC: 9 TWP: 26N RNG: AW PM: NM CNTY: RA ST:NM	DATE STARTED.  DATE FINISHED	
STEVEBOTAGE SE/4 NW/4 CONTRACTOR: P.S	ENVIRONMENTAL SPECIALIST:	REP
REMEDIATION:  REMEDIATION SYSTEM: LANDFARM  LAND USE:  RANGE  LIFT DEPTH (ft):		540
FELI NOTES & REMARKS:		
DE VELLOWISH ORANGE SAND, NON CONESIVE, SLIGHTLY MOIST, FIRM LARGE AREA OF STAINING IN LANDFARME PROM (SEE SKETCH BELOW)  NO HC ODOR DETECTED. SAMPLING DEPTHS RANGE FROM 6"-12" COLLECTED		000
NOTE: SOME OF THE SOIL WAS MOVED + LANDFARMED SITE ON THE SICARILLA APACHE 102-18 FIELD 418.1 CALCULATIONS	S ARE IMMED SCENT TO ONE	IATELY
SKETCH/SAMPLE LOCATIONS  WEIGHT (g) ml. FREON DILUTION READING  SKETCH/SAMPLE LOCATIONS	o cale. ppm	
LANDFARM AREA		
OVM RESULTS  SAMPLE FIELD HEADSPACE SAMPLE	LAB SAMP	<del></del>
10 PIO (ppm) 10	TPH	
1/8	(8015) 1234 (8015) 125	<del></del>
TRANSPORTION OF TOUR STATE OF		
STAINED SCALE  SCALE		<u> </u>
TRAVEL NOTES: CALLOUT: N/A ONSITE: 4:15.99		



### EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	4.0	0.2
Diesel Range (C10 - C28)	1.9	0.1
Total Petroleum Hydrocarbons	5.9	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 Apache 102 - 14 Landfarm. 5 Pt. Composite.

Analyst

Review P. Lende



### EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Sample Matrix: Soil Date Extracted: 04-16-99  Preservative: Cool Date Analyzed: 04-19-99	Preservative:	Cool	Date Analyzed:	403410 04-19-99 04-15-99 04-16-99 04-19-99 8015 TPH
--	---------------	------	----------------	--

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2.9	0.2
Diesel Range (C10 - C28)	0.5	0.1
Total Petroleum Hydrocarbons	3.4	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 Apache 102 - 14 Landfarm. 5 Pt. Composite.

Alexand. Cejecen

Review

Hary W. Sendle

# CHAIN OF CUSTODY RECORD

SPI LOPE  LOOL  COOL  Date  Pire  Pi	SPT LOVINSTIE  LOOL  Cool - Ice/Blue Ice  SAMPLES THES  LOOL  V N  Receipt  V N	(Signature) (Signature) (Signature)	Received by: (Signature)	Sample Matrix  Time 8:/0  8:/0  1001	Lab Number To53	Sample Time 1250	Sample Sample Date Time  4.1597 1259  4.1597 1259  ature)	Sample No./ Identification  LF-1  A  LF-2  A  Relinquished by (Signature)  Relinquished by: (Signature)
Remarks	Re	:)	of iners	4-10	Client No.			Sampler:
	METERS	ANALYSIS / PARAMETERS		Project Location LALLOFARM  SKARILLA ATACHE 102-14	Project Location LANDFARM  SKARILLA ATACHE 101		1000	Client / Project Name  BALS AMOCO