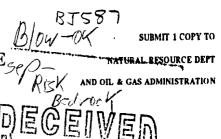
JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P.O. BOX 507

DULCE, NEW MEXICO 87528



PIT REMEDIATION AND CLOSURE REPORT

	(0)111	(CIANAL INTRO		
Operator: AMOCO PRODUCTION COMPANY	Telephon	e: 1505) 326-9200		
Address: 200 Amoco Court, Farmington,	NM 87401			
Facility or Well Name: TICALIUA C	ONTRACT # 147 - 1E			
Location: Unit or Qtr/Qtr Sec Sec T	725N RSW County 10	ALRIBA		
Pit Type: Separator Dehydrator Other	BWW			
Land Type: RANGE				
(Attach diagram)	50', width 60'			
Footage from reference:	62'			
Direction from reference: 38 Degrees East North of 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)		
Distance to an Ephemeral Stream (Downgradient dry wash greater than ten feet in width)	Less than 100 feet Greater than 100 feet	(10 points) O O		
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)		
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) \triangleright (0 points)		
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)		
	DANKING SCORE (TOTAL	POINTS).		

Date Remediation Started:		_ Date Completed:	7/-	20 98
mediation Method: Excavation	\preceq	Approx. cubic yard	s	225
eck all appropriate sections) Landfarme	•	Insitu Bioremediatio		
,				
Remediation Location: Onsi (i.e. landfarmed onsite, name and location of offsite facility)	te X Offsite			
General Description of Remedial	Action: Excavation	. ४६०१०००८ ८०७	Jom_	
Groundwater Encountered:	No <u>X</u> Yes	Depth		
Final Pit: Sample loca Closure Sampling: (if multiple samples,	tion see Attached	Documents		
n	191 (SOUTH	510 Eupul)		
1	7/16/98			
Sample Resi				
•	enzene (ppm) <u>O</u>	368 Water: Be	enzene	(ppb)
	otal BTEX (ppm) 3		oluene	(ppb)
	eld Headspace (ppm)		thylbenzene	(ppb)
	PH (ppm)		otal Xylenes	(ppb)
Groundwater Sample: Yes	No <u>×</u> (If	yes, attach sample r	esults)	
I HEREBY CERTIFY THAT THE KNOWLEGE AND BELIEF	INFORMATION ABOVE	IS TRUE AND COM	PLETE TO T	HE BEST OF MY
DATE 7/20/98	PRINTED NAM	ME Buddy D. Sh	ıaw	
SIGNATURE Sully D.	Show AND TITLE	Environment	al Coordi	nator
AFTER REVIEW OF THE PIT CI TO THE JICARILLA APACHE T	OSURE INFORMATION RIBE PIT CLOSURE ORI	, PIT CLOSURE IS AI DINANCE.	PPROVED IN	N ACCORDANCE
APPROVED: YES 🗶 NO _	(REASON)			
SIGNED: Ken Ma	DATE: _	7-27-98		

3003922342 LOCATION NO: BJ587 BLAGG ENGINEERING, INC. CLIENT: AMOCO P.O. BOX 87, BLOOMFIELD, NM 87413 C.D.C. ND: 6/00 (505) 632-1199 CLOSURE VERIFICATION PAGE No: _ 1 of _ 1 FIELD REPORT: DATE STARTED: 7/16/98 LOCATION: NAME: Jiの. CONTR. 147 WELL #: 1€ PIT: BLOW DATE FINISHED: QUAD/UNIT: J SEC: 8 TWP: ZSN RNG: SW PM: NM CNTY: RA ST: NM ENVIRONMENTAL QTR/FOOTAGE: 1560 FSL 1710 FEL CONTRACTOR: P+5 EXCAVATION APPROX. 50 FT. x 60 FT. x 25 FT. DEEP. CUBIC YARDAGE: 2,225 DISPOSAL FACILITY: 02-517E REMEDIATION METHOD: LANDFRRM _____ FORMATION: LAND USE: RANGE LEASE: JIC 147 FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 16Z FT. 538W FROM WELLHEAD. DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000' CHECK DNE : NMOCD RANKING SCORE: __ O NMOCD TPH CLOSURE STD: 5000 PPM PIT ABANDONED ___ STEEL TANK INSTALLED SOIL AND EXCAVATION DESCRIPTION: ____ FIBERGLASS TANK INSTALLED SOIL CONSIST OF DK. YELL DRANGE TO GREENISH GRAY TO DK. GRAY SAND, NON COHESTUE SLIGHTLY MOIST, FIRM TO DENSE NORTH & SOUTH SIDEWALL'S CONTAINED DARKER COLORS NOTED + W/ STRONG HC ODOR, STRINING NOT GUIDENT ANEING BOTTOM - BEDROCK (SANDSTONE), MED. LT. GRAY IN COLOR, SOFT, STRONG HC ODOR IN OUM SAMPLE. (CLOSED BEDROCK FIELD 418.1 CALCULATIONS BOTTOM SAMPLE I.D. | LAB NO: | WEIGHT (g) | mL. FREON | DILUTION | READING | CALC. ppm TIME SCALE FT PROFILE PIT PERIMETER A OVM 50 RESULTS FIELD HEADSPACE PID (ppm) SAMPLE 1 6 201 220.7 @ 19' 0.0 nell STANDING 663 22 HEAD! BEDROCK LAB SAMPLES standing water one to RECENT PRECIPITATION 3)e19' TPH 18TEX 0845 BOTH PASSED TRAVEL NOTES: CALLOUT: 7/15/98-MOW. ONSITE: 7/16/98-MORN.



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	3 @ 19'	Date Reported:	07-17-98
Laboratory Number:	D645	Date Sampled:	07-16-98
Chain of Custody No:	6100	Date Received:	07-16-98
Sample Matrix:	Soil	Date Extracted:	07-17-98
Preservative:	Cool	Date Analyzed:	07-17-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	377	0.2
Diesel Range (C10 - C28)	86.7	0.1
Total Petroleum Hydrocarbons	464	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 - 1E Blow Pit.

Analyst P. Office.

Hay W. Sender



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	3 @ 19'	Date Reported:	07-17-98
Laboratory Number:	D645	Date Sampled:	07-16-98
Chain of Custody:	6100	Date Received:	07-16-98
Sample Matrix:	Soil	Date Analyzed:	07-17-98
Preservative:	Cool	Date Extracted:	07-17-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	368	8.8
Toluene	4,970	8.4
Ethylbenzene	818	7.6
p,m-Xylene	20,160	10.8
o-Xylene	6,370	5.2
Total BTEX	32,690	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:

Parameter

Percent Recovery

Trifluorotoluene Bromofluorobenzene

98 % 98 %

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-84

USEPA, December 1996.

Comments:

Jicarilla Contract #147 - 1E Blow Pit.

nalyst d. Comment

Review

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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:	pet #147-1E
Location: Unit or Qtr/Qtr Sec_ J Sec_ 8 T_ZSN	R Sw County RIO ARRISA
Pit Type: Separator Dehydrator Other	
Land Type: Separator Denytrator Constitution Separator Denytrator Constitution Separator Denytrator Constitution Separator Constitution S	
	o', width35', depth5'
(Attach diagram) Reference: wellhead X, oth	her
Footage from reference: 150	
Direction from reference:	Degrees East North
	West South
	(20
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)
TR A	ANKING SCORE (TOTAL POINTS):

n n 11 0 Co	ato.li	Date Completed: 7 20 98
	rted:	Approx. cubic yards
nediation Method:	Excavation	
sections)	Landfarmed 🔀	Insitu Bioremediation
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)	-	
General Description o	of Remedial Action: Excar	ration. BEDROCK BOTTOM. RISK ASSESSED.
Groundwater Encount	tered: No <u>X</u> Y	es Depth
Final Pit: Closure Sampling: (if multiple samples,	Sample location see Atta	
attach sample results and diagram of sample	Sample depth3' ((SOUTH SIDEWALL)
locations and depths)	Sample date 7/16/9	Sample time On 35
	Sample Results	
H	Soil: Benzene (p	pm) 3.430 Water: Benzene (ppb)
	Total BTEX (p	
	Field Headspace (p	
	трн (р	pm) 8,810 Total Xylenes (ppb)
Groundwater Sample	Yes No _>	(If yes, attach sample results)
I HEREBY CERTIFY KNOWLEGE AND BI	THAT THE INFORMATION ELIEF	ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY
DATE	20 98 PRIN'	TED NAME Buddy D. Shaw
SIGNATURE BUD		D TITLE Environmental Coordinator
AFTED DEVIEW OF	THE PIT CLOSURE INFORM APACHE TRIBE PIT CLOSU	MATION, PIT CLOSURE IS APPROVED IN ACCORDANCE. JRE ORDINANCE.
APPROVED: YES	NO (REASON) _	R.A.
SIGNED: Lew	~ Mand D	К.Л. ATE:7-27-98

CLIENT: AMOCO BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM (505) 632-1199	
FIELD REPORT: CLOSURE VERIFICAT	ION PAGE No: / of /
QUAD/UNIT: T SEC: 8 TWP: 250 RNG: 5W PM: DM CNTY: RA	DATE STARTED: 7/16/98 DATE FINISHED:
QTR/FOOTAGE: 1560 FSL 1710 FEL CONTRACTOR: P65	ENVIRONMENTAL SPECIALIST: NV
EXCAVATION APPROX. 30 FT. x 35 FT. x 5 FT. DEEP.	
DISPOSAL FACILITY: DO-51TE REMEDIATION	
LAND USE: RANGE LEASE: JIC 147	
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 150 DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEARES	FT. <u>NAM</u> FROM WELLHEAD.
NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM	CHECK ONE :
SOIL AND EXCAVATION DESCRIPTION:	✓ PIT ABANDONED STEEL TANK INSTALLED
SOIL CONSIST OF MODE TO BE WITH	EXPERSION AND TAXABLE TO THE PARTY OF THE PA
SOIL CONSIST OF MOD. TO DR. YELL. BROWN SA. SLIGHTLY MOIST FIRM, DARKER BROWN ON WEST NO DISTURCT FIRMING OBSERVED WILL FIRE TO	ND NOW COHESIVE
NO DISTUCT STAINING OBSERVED WIN SIDEMANS, &	TRONG HE POUR IN ALL
BOTTOM - BEDROCK (SANDSTONE) GRAVISH OLIVE IN HE ODOR DETECTED IN OUM SAMPLE.	color, very HARD, strong
BEDROCK RISK ASSESSED FIELD 418.1 CALCULAT	TIONS
TIME SAMPLE I.D. LAB No: WEIGHT (g) mL. FI	
SCALE	
O FT	
PIT PERIMETER 🗚	PIT PROFILE
OVM RESULTS A	,
SAMPLE FIELD HEADSPACE PID (Ppm)	30°, A
1 2021 415	74'
4 2 3' 771	7,7727,777
5 e 5 709	bedrock
LAB SAMPLES SAMPLE ANALYSIS TIME	
HEDD ANALYSIS TIME Des' TPH (CCX 0735)	
TOT. BTEX - FAILED	
TDAVEL NOTES	
TRAVEL NOTES: CALLOUT: 7/15/98 - MORN. ONSITE: 7/16/98 -	mokn.

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizonal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla Contract 147 #1E

Unit J, Sec. 8, T25N, R5W

Separator 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 5 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 5 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 0.08 miles north of the nearest vulnerable area boundary (Gonzales Canvon wash).

(Refer to <u>Lapis Point Quadrangle</u>, New <u>Mexico - Rio Arriba County</u>, 7.5 <u>Minute Series (Topographic)</u>, 1963, (vulnerable area boundary developed by Mr. William C. Olson, <u>Hydrogeologist</u>, <u>Environmental Bureau</u>, <u>New Mexico Oil Conservation Division</u>).

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.



EPA METHOD 8015 Modified

Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	3 @ 3'	Date Reported:	07-17-98
Laboratory Number:	D646	Date Sampled:	07-16-98
Chain of Custody No:	6100	Date Received:	07-16-98
Sample Matrix:	Soil	Date Extracted:	07-17-98
Preservative:	Cool	Date Analyzed:	07-17-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	7,750	0.2
Diesel Range (C10 - C28)	1,060	0.1
Total Petroleum Hydrocarbons	8,810	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 - 1E Separator Pit.

Analyst P. Quece

They W. Janden
Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	3 @ 3'	Date Reported:	07-17-98
Laboratory Number:	D646	Date Sampled:	07-16-98
Chain of Custody:	6100	Date Received:	07-16-98
Sample Matrix:	Soil	Date Analyzed:	07-17-98
Preservative:	Cool	Date Extracted:	07-17-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	3,430	8.8
Toluene	18,430	8.4
Ethylbenzene	1,670	7.6
p,m-Xylene	61,990	10.8
o-Xylene	28,570	5.2
Total BTEX	114,090	

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-84

USEPA, December 1996.

Comments: Jicarilla Contract #147 - 1E Separator Pit.

alyst Review

7	Cool - Ice/Blue Ice	615	(505) 632-0615			
7	Received Intact	exico 87401	Farmington, New Mexico 87			
Y NA			5706 II S Uigh			
ceipt	Sample Receipt	HINC.	ENVIROTECH		6100, 6101, 6170	Ref cocs
		Received by: (Signature)	Receiv			atur
		Heceived by: (Signature)	Hecen			
ate Time	Date 7.16 98	Received by: (Signature)	7/16/98 1447		M	Relinquished by: (Signature)
			•			Relinquished by: (Signature
A PIT	SEPARATOR PIT	- < <	<u>.</u>	9490	7/K/98 0735	3
PIT	Scow 1			6		
	2 200	~	-	סויאט	7/1/98 0845	3 ex/19'
POTH SAMPLES	BOTH S	No Conta	Sample Matrix	Lab Number	Sample Sample Date Time	Sample No./ Identification
::Remarks		uners	- 0	01-75070		NIN
			17 1-16			Sampler:
	NAMETERS	ANALYSIS / PARAMETERS		TicaRicia c	Anoco	82966 / An
				Project I ocation		Client / Project Name

JICARILLA APACHE TRIBE

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ENVIRONMENTAL PROTECTION OFFICE

NATURAL RESOURCE DEPT

P.O. BOX 507

DULCE, NEW MEXICO 87528

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: <u>SICARILLA CONTRACT</u> 1	47-18
Location: Unit or Qtr/Qtr Sec_ ユ Sec_ B T2	SH RSW County RIO ARRIBA
Land Type: RONGE	
Date Remediation Started:	Approx. cubic yards 2350
oth To Groundwater: (pts.)	Final Closure Sampling:
Distance to an Ephemeral Stream (pts.) Distance to Nearest Lake, Playa, or Watering Pond (pts.) Wellhead Protection Area: (pts.) Distance To SurfaceWater: (pts.) RANKING SCORE (TOTAL POINTS):	Sampling Date: 3.30.99 Time: 1015 Sample Results: (F-Z) Field Headspace (ppin) 9.4 (LF-1+LF-Z) TPH (ppin) ND Method 8015 Other MULTIPLE SAMPLES - SEE ATTACHED FORM
I HEREBY CERTIFY THAT THE INFORMATION ABOVE KNOWLEGE AND BELIEF	E IS TRUE AND COMPLETE TO THE BEST OF MY
	AND TITLE Environmental Coordinator
AFTER REVIEW OF THE SOIL REMEDIATION INFORM ACCORDANCE TO THE JICARILLA APACHE TRIBE PITAPPROVED: YES NO (REASON)	CLOSURE ORDINANCE.
SIGNED: DATE:	

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.O.C. NO: <u>USB</u>)
FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE	VERIFICATION
QUAD/UNIT: 5 SEC: 8 TWP: 25N RNG: 5W PM: NM CNTY: RA ST: NM QTR/FOOTAGE: NW/4 SE/4 CONTRACTOR: P-5	DATE STARTED: 3.3099 DATE FINISHED: ENVIRONMENTAL SPECIALIST: LEP
SOIL REMEDIATION: REMEDIATION SYSTEM: LANDFARM APPROX. CUBIC Y LAND USE: RANGE LIFT DEPTH (ft):	
FIELD NOTES & REMARKS: DEPTH TO GROUNDWATER: >100 NEAREST WATER SQURCE: >1000 NEAREST SURFACE NMOCD RANKING SCORE: O NMOCD TPH CLOSURE STD: \$000 PPM DK. YELLOWISH BROWN SAND, NON CONESIVE, SUIGHTLY MUIST, FIRM	
RANGE FROM 6" - 18", TOOK 2 SPT. COMPOSITE SAMPLES FOR LAF AND CLOSED FIELD 418.1 CALCULATIONS SAMP. TIME SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DILUTION READING	LY\$15 .
SKETCH/SAMPLE LOCATIONS OVM RESULTS SAMPLE FIELD HEADSPACE FID SAMPLE FIELD HEADSPACE FID LF 2 9.4 LF 2 9.4 SCALE	AB SAMPLES ANALYSIS TIME RESULTS TPH (BOIS) 0945 ND TPH SOIS) 1015 ND
TRAVEL NOTES: CALLOUT: N/A ONSITE: 3.30.99	



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix: Preservative:	Blagg / AMOCO LF - 1 E917 6581 Soil Cool	Project #: Date Reported: Date Sampled: Date Received: Date Extracted:	403410 04-01-99 03-30-99 03-31-99 03-31-99
Condition:	Cool and Intact	Date Analyzed: Analysis Requested:	04-01-99 8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	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 - 1 E Landfarm. 5 Pt. Composite.

Analyst P. Oyecan

Stacy W Sendler



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Sample ID: Laboratory Number:	Blagg / AMOCO LF - 2 E918	Project #: Date Reported: Date Sampled:	403410 04-01-99 03-30-99
Chain of Custody No:	6581	Date Received:	03-31-99
Sample Matrix:	Soil	Date Extracted:	03-31-99
Preservative:	Cool	Date Analyzed:	04-01-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	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 - 1 E Landfarm. 5 Pt. Composite.

Analyst

Stacy W Sendler

CHAIN OF CUSTODY RECORD

6581

Cool - Ice/Blue Ice		(200) 002-00				
Received Intact	xico 87401	Farmington, New Mexico 87401				
Y NA		5796 U.S. Highway 64	ı			
Sample Receipt	当 nc.	ENVIROTECH				
	Heceived by: (Signature)	Heceive				
2.3.9 9 9.5%	Alexander Congramment	3/31/99 0756	3/3		(e)	Relinquished by: (Signature)
Date Time 3/31/99 07/5	Received (Signature)	2160 6	3/:		TO MY	Relinquished by: (Signature)
	ad by: (Signature)	Date Time Receive			re)	Relinquished by: (Signature)
Cool						
SAMPLES PRESERVE						
SPT. COMPOSITE	7	3016		1010	11.01	
			59.8	316	A CO CAN	15-2
57T. COMPOSITE	7	3012	+11.3	040	C+1011 1.02.6	
	C	The state of the s	707	77.0	o a co	15-1
	No. Contain	Sample	Lab Number	Sample Time	Sample Date	Sample No./ Identification
Remarks	iners	1-10	01-42040			KEP
		Client No.	Client No.			Sampler:
ANALYSIS / PARAMETERS			1120		200	Beach AHOCO
		ANDFARH	Project Location CANDFARH			Client / Project Name