JICARILLA APACHE TRIBE JENNY S. Toust ENVIRONMENTAL PROTECTION OFFICE OF NATURAL RESOURCE DEPT P.O. BOX 507 P.O. BOX 507 DULCE. NEW MEXICO 87528

DULCE, NEW MEXICO 87528

Bedock

AUG 1 3 1999

PIT REMEDIATION AND CLOSURE REPORT

PIT REMEDIATION	AND CLOSURE REPORT	
Operator: AMOCO PRODUCTION COMPANY	Telephone : (505)326-920	0
Address: 200 Amoco Court, Farmington,	NM 87401	
Facility or Well Name: TICARILLA E	3 #Z	
Location: Unit or Qtr/Qtr Sec_M Sec_16_ T	CZGN R SW County RIO ARRIBA	
Pit Type: Separator Dehydrator Other	BLOW	
Land Type: RANGE		
(Attach diagram)	38', width 30', depth 15'	
lf .	6 Degrees X East North	
	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)	<u> </u>
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> </u>
Distance to Nearest Lake, Playa, or Watering Pond (Downgradient lakes, playas and livestock or wildlife watering pends)	Less than 100 feet (10 points) Greater than 100 feet (0 points)	<u> </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> </u>
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):	>

BJ463/ BLOW PIT

<u>'</u>) /
Date Remediation St	arted:		Date Completed:	10/23/96
Remediation Method:	Excavation X	A	Approx. cubic yards _	500
' 'leck all appropriate tions)	Landfarmed 🔀]	Insitu Bioremediation _	
	Other			
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility)				
General Description	of Remedial Action:	Excavation .	BEDROCK KOTT	m
Groundwater Encoun	tered: No X	Yes	Depth	_
Final Pit: Closure Sampling: (if multiple samples,	Sample location see	Attached Doo	cuments	
attach sample results and diagram of sample	Sample depth //	/		
locations and depths)	Sample date /0/2			
	Sample Results			
 -	Soil: Benzene	(ppm) <u>0.14</u>	5 Water: Benze	ne (ppb)
	Total BTEX	-		ne (ppb)
		ce (ppm) 1,35		enzene (ppb)
	трн	(ppm) 3,380		Kylenes (ppb)
Groundwater Sample:	: Yes N			s)
I HEREBY CERTIFY KNOWLEGE AND BI		TION ABOVE IS	TRUE AND COMPLE	TE TO THE BEST OF MY
DATE /	0/23/96_, ,	PRINTED NAME	Buddy D. Shaw	
SIGNATURE BLD.	0/23/96 P	AND TITLE	Environmental	Coordinator
AFTER REVIEW OF	- 	FORMATION, PIT	Γ CLOSURE IS APPR	OVED IN ACCORDANCE
APPROVED: YES	NO 🔀 (REASC	ON) Condition	nal Closure	Fuled Total BTex
SIGNED:	:5nall	DATE://	1-5-96	

CLIENT: AMOCO BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.O.C. NO: 4920
FIELD REPORT: CLOSURE VERIFICATION	PAGE No: of
LOCATION: NAME: JICARIUM B WELL #: Z PIT: BLOW	DATE STARTED: /0/22/96 DATE FINISHED:
QUAD/UNIT: M SEC: 16 TWP: ZCO RNG: 5W PM: NM CNTY: RA ST: NM OTR/FOOTAGE: 815 FSL 845 FWL CONTRACTOR: PAS	ENVIRONMENTAL NV SPECIALIST:
EXCAVATION APPROX. 38 FT. x 30 FT. x 15 FT. DEEP. CUBIC DISPOSAL FACILITY: 00-517E REMEDIATION METHO LEASE: 11-9. COST: 109 FOR	D: LANDFARMED
SOIL AND EXCAVATION DESCRIPTION:	VAC FROM WELLHEAD. E WATER: 21000' CHECK ONE: PIT ABANDONED STEEL TANK INSTALLED FIBERGLASS TANK INSTALLED
SIDEMALLS - GRAYISH ORANGE PINK TO DK. YELL. BROWN SILT CLOT, NON-COHESTUE, SLIGHTLY MOIST, FIRM TO HE ODDR IN EAST SIDEMALL OWN JAMPLE ONL OFFERDED WIN EAST SIDEMALL AFTER CLOSE I OFFERDED WIN EAST SIDEMALL AFTER CLOSE I OWN JAMPLE OWN JAMPLE OWN JAMPLE OWN JAMPLE OWN JAMPLE BOTTOM- BEDROCK, OLIVE GRAY IN COUR, VERY HARD SHALL CONDITIONAL OWN JAMPLE DECROCK SCALE SC	HC STAINING REPECTION
O FT PIT PERIMETER OVM RESULTS PIT	PROFILE
SAMPLE FIELD HEADSPACE PID (ppm) 1 @ // 0.0 2 @ // /356 3 @ /o / 0.0 4 @ /2 / 0.0 5 @ /5 / 208.1 15' LAB SAMPLES SAMPLE ANALYSIS TIME ID SELV TPH/BTEX 1/50 Roys Roys	REDROCK A
TRAVEL NOTES: CALLOUT: 10/21/96 MORN. ONSITE: 10/22/96 M	ORN.

j

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla B #2
Unit M, Sec. 16, T26N, R5W
Blow Pit
Basin Dakota
Non Vulnerable
> 1000 ft.

> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe encountered shale bedrock at 15 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 shale bedrock located 15 feet below grade. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below shale bedrock.
- 2. Topographic information does not indicate off site lateral fluid migration near the earthen pit.
- 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 0.72 miles north northeast of the nearest vulnerable area boundary (Tapacito Creek).

(Refer to <u>Lapis Point Quadrangle</u>, <u>New 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 lateral impact of the excavation is limited and that the shale 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
Sample ID:	2 @ 11'	Date Reported:	10-23-96
Laboratory Number:	A707	Date Sampled:	10-22-96
Chain of Custody No:	4920	Date Received:	10-23-96
Sample Matrix:	Soil	Date Extracted:	10-23-96
Preservative:	Cool	Date Analyzed:	10-23-96
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	1,190	0.2
Diesel Range (C10 - C28)	2,190	0.1
Total Petroleum Hydrocarbons	3,380	0.2

ND - Parameter not detected at the stated detection limit.

References:

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

SW-846, USEPA, July 1992.

Comments:

Jicarilla B #2 Blow Pit.

Deur L. Cejeuen Analyst

Review Stacy W Sendler



EPA METHOD 8020 AROMATIC VOLATILE ORGANICS

Client:	Blagg / Amoco	Project#:	04034
Sample ID:	2 @ 11'	Date Reported:	10-23-96
Laboratory Number:	A707	Date Sampled:	10-22-96
Chain of Custody:	4920	Date Received:	10-23-96
Sample Matrix:	Soil	Date Analyzed:	10-23-96
Preservative:	Cool	Date Extracted:	10-23-96
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	445	4
	145	17.5
Toluene	9,520	16.7
Ethylbenzene	5,750	15.2
p,m-Xylene	47,300	21.6
o-Xylene	19,000	10.4
Total BTEX	81,700	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	102 %
	Bromofluorobenzene	99 %

References:

Method 5030, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

July 1992.

Method 8020, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, Sept. 1994.

Comments:

Jicarilla B #2 Blow Pit.

Dew L. Gener

Stacy W Sendler
Review

		CH INC. Pay 64-3014 Mexico 87401 2615	ENVIROTECH INC. 5796 U.S. Highway 64-3014 Farmington, New Mexico 87401 (505) 632-0615				
		Received by: (Signature)	Re				Relinquished by: (Signature)
	•	sceived by: (Signature)	# #				
Date Time	Ques	Received by:\Signature\	Date Time Re			16)	Relinquished by: (Signature)
No verx							
5000		1 / /	10/4	#767	1150	15/25/01	(F) (S)
Received - Con-		No. Contai	Sample Matrix	Lab Number	Sample Time	Sample Date	Sample No./ Identification
Remarks		ners	No.	Chain of Custody Tape No.		12	Sampler: (Signature)
	ANALYSIS/PARAMETERS		C # 10 10 10 10 10 10 10 10 10 10 10 10 10	丁! ctかなってた		Amoso	
		ממסיים יורטטחט	!				Client/Project Name

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

BJ 463 NATURAL RESOURCE DEPT

AND OIL & GAS ADMINISTRATION

PIT REMEDIATION AND CLOSURE REPORT

Operator: AMOCO PRODUCTION COMPANY	Telephor	ne: (505)326-9200
Address: 200 Amoco Court, Farmington,	NM 87401	
Facility or Well Name: JICARILLA	B # Z	
Location: Unit or Qtr/Qtr Sec_MSec_/6_7	FZCN R SW County R10	ARRIBA
Pit Type: Separator Other_		
Land Type: RANGE		
(Attach diagram) Reference: wellhead X	35', width 25' , other 95'	, depth 9
		
Direction from reference:	53 Degrees East West	of
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)
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) (0 points)
Distance To SurfaceWater: (Horizontal distance to perennial akes, ponds, rivers, streams, creeks, rrigation canals and ditches)	Less than 100 feet 100 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) (0 points)
	RANKING SCORE (TOTAL	POINTS):

	BT463 SEY. YII	
Date Remediation Se	Started: Date Completed:	6
Remediation Method:	,	
eck all appropriate	Landfarmed X Insitu Bioremediation	
·	Other	
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility)		
General Description	of Remedial Action: Excavation. ENTIRE EXCAUATION CONSIST	
mostly of	= BEDROCK, THEREFORE NO THY ANALYSIS WAS CONDUCTED	D .
	ntered: No X Yes Depth	
Final Pit: Closure Sampling: (if multiple samples,	Sample locationsee Attached Documents	
attach sample results and diagram of sample	Sample depth 5	
locations and depths)	Sample date	
	Sample Results	
	Soil: Benzene (ppm) Water: Benzene (ppb)	
	Total BTEX (ppm) Toluene (ppb)	
	Field Headspace (ppm) //19 Ethylbenzene (ppb)	
	TPH (ppm) Total Xylenes (ppb)	
Groundwater Sample:	: Yes No X (If yes, attach sample results)	
I HEREBY CERTIFY KNOWLEGE AND BE	THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST ELIEF	OF MY
DATE	10/zz/96, PRINTED NAME Buddy D. Shaw	
SIGNATURE BUZZ	Ly D. Shaw AND TITLE Environmental Coordinator	
AFTER REVIEW OF	THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORANGE TRIBE PIT CLOSURE ORDINANCE.	RDANCE
APPROVED: YES 👤	× NO (REASON) <u>5222</u> → C (85 €	
signed: Lim (O Man DATE: 11-5-96	

CLIENT: AMOCO BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.O.C. NO:
FIELD REPORT: CLOSURE VERIFICATION	PAGE No:
LOCATION: NAME: JICARILLA B WELL #: Z PIT: SEP	DATE STARTED: /0/22/96 DATE FINISHED:
QUAD/UNIT: M SEC: 16 TWP: ZEN RNG: 5W PM: NM CNTY: RA ST: NM QTP/FBOTAGE: 815 FSL 1845 FNL 5W3W CONTRACTOR: P + 5	ENVIRONMENTAL NV
EXCAVATION APPROX. 35 FT. x 25 FT. x 9 FT. DEEP. CUBIC	YARDAGE: 250
	: LANDFARMED
LAND USE: RANGE LEASE: JICA CONT 109 FOR	MATION: OK
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY _ 95 FTA DEPTH TO GROUNDWATER: _>100' NEAREST WATER SOURCE: _>1000' NEAREST SURFACE	
	CHECK DNE :
COLL AND EVEN ATION DESCRIPTION	PIT ABANDONED STEEL TANK INSTALLED
RED TO DK. GREENER GRAY IN COLOR SOFT IN M TO VERY HARD MEAR PIT BOTTOM MOTORTY OF SOFT	FIBERGLASS TANK INSTALLED
FREE OF HC STAINING & DOOR TIRONG HC ODOR SAMPLES PIT ROTTOM LT GOULD TO COLOR UZBY HIS HC ODER IN DUM SAMPLE UNABLE TO DISTINGUA TO WHAT APPEARS TO BE THE NATURAL SUBSURFACE BEDIOCK. NO TOH ANALYSIS WAS CONDUCTED DU BEUROCK DISK ASSESSED FIELD 418.1 CALCULATIONS TIME SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DILL SCALE O FT	IN ALL OTHER BUM OLD, NO PROPORENT ALSH HC STAINING OSLOR WIND THE E TO BEDROOK JTION READING CALC. ppm
PIT PERIMETER TO RESULTS PIT	PROFILE
25' A B SAMPLES SAMPLE ANALYSIS TIME 135' 150 A MEND 150 A MALYSIS TIME	35 IL MOTERIAL SEOROCK
TRAVEL NOTES. CALLOUT: 10/21/96 MORN. ONSITE: 10/22/96 M	102~

Well Name:

Well Site location:

Pit Type:

,

Producing Formation:

Pit Category:

Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla B #2

Unit M, Sec. 16, T26N, R5W

Separator Pit Basin Dakota

Non Vulnerable

> 1000 ft.

> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe encountered very hard shale bedrock at 9 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 shale bedrock located 9 feet below grade. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below shale bedrock.
- 2. Topographic information does not indicate off site lateral fluid migration near the earthen pit.
- 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 0.72 miles north northeast of the nearest vulnerable area boundary (Tapacito Creek).

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

Based upon the information given, we conclude that the lateral impact of the excavation is limited and that the very hard shale 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.

85463

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

SUBMIT 1 COPY

NATURAL RESOURCE DE

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	3 # 2
Location: Unit or Qtr/Qtr Sec_ M Sec_ 16 T	26N R 5W County RIO ARRIBA
Land Type: RANGE	
Date Remediation Started: 10/22/96	Date Completed: 4/27/98
Remediation Method: Landfarmed X	Approx. cubic yards 750
Composted	
Other + Starkpile	
pth To Groundwater: (pts.)	Final Closure Sampling:
Distance to an Ephemeral Stream (pts.)	Sampling Date: $\frac{4/21/98}{}$ Time: $\frac{0945}{}$
Distance to Nearest Lake, Playa, or Watering Pond (pts.)	Sample Results: BENZENE 0.0067 Ppm
Wellhead Protection Area: (pts.)	Field Headspace (ppm) 102.6 & LANDERGEN
Distance To SurfaceWater: (pts.)	TPH (ppm) 23.3 Method 8015 Other STOCKPILE 0.0 ppm oum
RANKING SCORE (TOTAL POINTS):	165 ppm TPH
I HEREBY CERTIFY THAT THE INFORMATION ABOVE KNOWLEGE AND BELIEF	E IS TRUE AND COMPLETE TO THE BEST OF MY
SIGNATURE Bully S. Show	NAME Buddy D. Shaw
SIGNATURE Dudly D. Shaw	AND TITLE Environmental Coordinator
AFTER REVIEW OF THE SOIL REMEDIATION INFORM ACCORDANCE TO THE JICARILLA APACHE TRIBE PI	Γ CLOSURE ORDINANCE.
APPROVED: YES NO (REASON) U	T for use as Backfull
S.GNED: Koc Maul DATE:	5-7-98

CLIENT: _AMOCO BLAGG ENGINEERING, INC. LOCATION NO. 87463 P.O. BOX 87, BLOOMFIELD, NM 87413 C.O.C. NO: 5745 (505) 632-1199FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION DATE STARTED: 4/21/98 LOCATION: NAME: JICARILLA B WELL #: 2 PITS: BLOW SEP. DATE FINISHED: 4/27/98 QUAD/UNIT: M SEC: 16 TWP: 260 RNG: 5W PM: NM CNTY: RA ST: NM ENVIRONMENTAL NV QTR/FOOTAGE: 5w/4 5w/4 CONTRACTOR: SPECIALIST: SOIL REMEDIATION: REMEDIATION SYSTEM: ____LF/SP APPROX. CUBIC YARDAGE: 750 LIFT DEPTH (ft): 1/2-3' RANGE LAND USE: FIELD NOTES & REMARKS: NMOCD RANKING SCORE: _____ NMOCD TPH CLOSURE STD: 5000 PPM SAMPLE PT. Z FOR LITT BISENUSRED 51832 C- 1-CLOSED STOCKPILE - 132 SIOW FROM WELL HEAD D105/6 50' DIAMETER FIELD 418.1 CALCULATIONS 5016 סדווכצ כד SAMP. TIME SAMPLE I.D. WEIGHT (g) ml. FREON DILUTION READING CALC. ppm LAB No: moster AZEA BET. Dr GLL PK. SET. TACK PI 50-11 13 FIRAT. OCS9 & (NOT SHOUL) TILTU TIND SEE PIT ECOSMET Flean SISTENCY 4 1 SKETCH/SAMPLE LOCATIONS TO A

SEP

TANK DEP OVM RESULTS LAB SAMPLES SAMPLE PT SAMPLE FIELD HEALISPACE PID (ppm) SAMPLE ANALYSIS RESULTS LF-1 1.F-1 0945 z 3. 3 102.6 TPH 8015 5P-1 15P-1 0.0 165 LANDFRAM 1010 3EN 0.087 LF-1 0945 pg. 3.257 (8051) (\mathcal{D}) DEMY

> SCALE 0 FT

TRAVEL NOTES: CALLOUT: NA

STOCK PILE

10 HEIGHT

ONSITE: 4/21/98 - MORN.



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	04-24-98
Laboratory Number:	D130	Date Sampled:	04-21-98
Chain of Custody No:	5745	Date Received:	04-22-98
Sample Matrix:	Soil	Date Extracted:	04-22-98
Preservative:	Cool	Date Analyzed:	04-23-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.5	0.2
Diesel Range (C10 - C28)	22.8	0.1
Total Petroleum Hydrocarbons	23.3	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 B #2 Landfarms.

Deu L. Giere.

Stacy W Sendler
Review



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	SP - 1	Date Reported:	04-24-98
Laboratory Number:	D131	Date Sampled:	04-21-98
Chain of Custody No:	5745	Date Received:	04-22-98
Sample Matrix:	Soil	Date Extracted:	04-22-98
Preservative:	Cool	Date Analyzed:	04-23-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	46.2	0.2
Diesel Range (C10 - C28)	119	0.1
Total Petroleum Hydrocarbons	165	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 B #2 Stockpile.

Remed. Ogicaen

Stacy W Sendler.
Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	04-28-98
Laboratory Number:	D130	Date Sampled:	04-21-98
Chain of Custody:	5745	Date Received:	04-22-98
Sample Matrix:	Soil	Date Analyzed:	04-27-98
Preservative:	Cool	Date Extracted:	04-27-98
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	6.7	6.1
Toluene	19.2	16.7
Ethylbenzene	37.3	15.2
p,m-Xylene	88.4	21.6
o-Xylene	112	10.4
Total BTEX	257	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene Bromofluorobenzene	97 % 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-84

USEPA, December 1996.

Comments:

Jicarilla B #2 Landfarms.

Analyst P. Cyclica

Hay W. Sender

CHAIN OF CUSTODY RECORD

		21 %	CH INC Pay 64-3014 Mexico 8740 0615	ENVIROTECH INC. 57% U.S. Highway 64-3014 Farmington, New Mexico 87401 (505) 632-0615	2745, 5746, 5747, 5748	46, 57	745, 57	Ref Cac's s
		gnature)	Received by: (Signature)	R				Relinquished by: (Signature)
7-22-97 0704	6	gnature)	Received by: (Signature)	480704	4		What was a second	Relinquished by: (Signature)
+ INTRO XM	ED COOL	(enutarion)	SAMPLES RECE	Date Time R			7	Relinquished by: (Signature)
		\$						
SIECKHE COMPOSITES.		X		307		3773	1/2/170	-
				12	1 814	2000	1/2 /ax 0945	SP-1
1.2		< .	-	2017	D130	1010	4/2/198	1-77
BOTH SAMPLES	BTZ	TPH (8015 BTC	No. Contai	Sample Matrix	Lab Number	Sample Time	V Sample Date	Sample No./ Identification
Remarks	4 302		of ners	O No.	Chain of Custody Tape No.		Se	My Mon (
ANALYSIS/PARAMETERS		,		2#8	TICARILLA		Pmoco	9
		ECORD	ODY R	CHAIN OF CUSTODY RECORD	Project Location			Client/Project Name