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

Blow - bedvoe BJ702 SEP - SV. SUBMIT I COPY TO NATURAL RESOURCE DEPT AND OIL & GAS ADMINISTRATION

PIT REMEDIATION AND CLOSURE REPORT

AUG 2 7 1999

	OFF	LCON. DIV.	<u> </u>
	<u></u>	150535326-9200	
Operator: AMOCO PRODUCTION COMPANY	Telephone:	(50 13 28 - 9200	
Operator: APIOCO TRODUCTION			
Address: 200 Amoco Court, Farmington, N	VM 0/401		
Facility or Well Name: JICARINA CONTR	# 155 - 25		
Facility or well name.		RIRA	
Location: Unit or Qtr/Qtr Sec Sec 3° T 3	260 RSW County KN AA		
D. L. Joseph Other	BLOW		
Pit Type: Separator Dehydrator Other			
Land Type: RANGE			
Pit Location: Pit dimensions: length	54', width <u>44'</u>	, depth	
(I = == : - :			
Reference: wellhead X,	other		
Footage from reference: 25	<i>o'</i>		
- Contago Hom Contago	BO Degrees Kast of	North	
Direction from reference:			
	West	3000 <u> </u>	
	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	(0 points)	
high water elevation of			
groundwater)	100.0	(10 noints) *	
Distance to an Ephemeral Stream	Less than 100 feet Greater than 100 feet	(10 points) > (0 points) >	
(Downgradient dry wash greater than	Ofcator than 100 foot		
ten feet in width)	Less than 100 feet	(10 points)	
Distance to Nearest Lake, Playa, or Watering Pond	Greater than 100 feet	(0 points)	
(Downgradient lakes, playas and livestock or wildlife watering ponds)			
ll and the second secon	Yes	(20 points)	
Wellhead Protection Area: (Less than 200 feet from a private	No	(0 points)	
domestic water source, or: less than			
1000 feet from all other water sources)	I 4h 100 foot	(20 points)	
Distance To SurfaceWater:	Less than 100 feet 100 feet to 1000 feet	(10 points)	
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks,	Greater than 1000 feet	(0 points)	<u>:</u>
irrigation canals and ditches)			
		DOINTS).	
1 ·	RANKING SCORE (TOTAL	L POINTS):	

	Date Completed: 12/4/98
Date Remediation Started:	Approx. cubic yards
Remediation Method: Excavation (Check all appropriate	
sections) Landfarmed	Insitu Bioremediation
Other	
Remediation Location: Onsite X Offsite	
(i.e. landfarmed onsite, name and location of	
offsite facility)	2
General Description of Remedial Action: Excavation	KEDROCK KOTTOM, KIKK HOSESSED.
	Dist
Groundwater Encountered: No X Yes	Depin
Final Pit: Sample location see Attached	Documents
Closure Sampling:	
(if multiple samples, attach sample results	51DEWALL)
locations and depths) Sample date/z/3/98	Sample time
Sample Results	
Soil: Benzene (ppm)	Water: Benzene (ppb)
Total BTEX (ppm)	Toluene (ppb)
Field Headspace (ppm) <u>C</u>	2.0 / 136.3 Ethylhenzene (ppb)
TPH (ppm)	Total Xylenes (ppb)
Groundwater Sample: Yes No (I	f yes, attach sample results)
I HEREBY CERTIFY THAT THE INFORMATION ABOVE KNOWLEGE AND BELIEF	E IS TRUE AND COMPLETE TO THE BEST OF MY
KNOWLEGE AND DESIGN	
DATE /2/4/98 PRINTED NA	
SIGNATURE Bully D. Show AND TITLE	E Environmental Coordinator
AFTER REVIEW OF THE PIT CLOSURE INFORMATION TO THE JICARILLA APACHE TRIBE PIT CLOSURE OR	I, PIT CLOSURE IS APPROVED IN ACCORDANCE DINANCE.
APPROVED: YES NO (REASON)	• ;
SIGNED: La CON an DATE:	12-28-98

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	C.O.C. NO: 6419
FIELD REPORT: CLOSURE VERIFICATION LOCATION: NAME: JICA. COMR. 155 WELL #: 25 PIT: BLOW QUAD/UNIT: O SEC: 30 TWP: 262 RNG: SW PM: NM CNTY: RA ST: NM.	PAGE No: of DATE STARTED: 3 /98 DATE FINISHED:
QTR/FODTAGE: 1080 FSL (1570 FEL CONTRACTOR: P&S	ENVIRONMENTAL SPECIALIST:
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 250 FT. 5 DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >100' NEAREST SURFACE NMOCD RANKING SCORE: NMOCD TPH CLOSURE STD: 5000 PPM	MATION: MV/CK TO SE FROM WELLHEAD. WATER: >1000 CHECK DNE: PIT ABANDONED
1 2011 BIAD EVOLUTION DECONISTRATION	
BEDROX BOTTOM FIELD 418.1 CALCULATIONS TIME SAMPLE I.D. LAB NO: WEIGHT (9) ML. FREON DI SCALE O FT PIT PERIMETER N OVM	
RESULTS SAMPLE FIELD HEADSPACE 10 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	BEDROCK (SS)

Well Name:

Well Site location:

Pit Type:

Producing Formation:

Pit Category:

Horizontal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla Contract 155 #25

Unit O, Sec. 30, T26N, R5W

Blow Pit

Chacra/Mesa Verde

Non Vulnerable

> 1000 ft.

> 100 ft.

RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe encountered sandstone bedrock at 12 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 12 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 0.17 miles northwest of the nearest vulnerable area boundary (Tapacito Creek).

(Refer to Gonzales Mesa 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 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 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	2 @ 8'	Date Reported:	12-04-98
Laboratory Number:	E258	Date Sampled:	12-03-98
Chain of Custody No:	6419	Date Received:	12-04-98
Sample Matrix:	Soil	Date Extracted:	12-0 4- 98
Preservative:	Cool	Date Analyzed:	12-04-98
Condition:	Cool and Intact	Analysis Needed:	TPH-418.1

		Det.
	oncentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons ND 5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water

and Waste, USEPA Storet No. 4551, 1978.

Comments:

Jicarilla Contract #155 - 25 Blow Pit.

Decen L. Ofence

Stacy W Sendler

85702

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

		(505)326-93	200
Operator: AMOCO PRODUCTION COMPANY		:(505)326-92	
Address: 200 Amoco Court, Farmington,	NM 87401		
Facility or Well Name: JICARIZLA CON	JTRICT # 155 - 45	Pa= 2=	<u></u>
Location: Unit or Qtr/Qtr Sec Sec 30 T	ZGN R SW County 100 /	HRRISTI	<u></u>
Pit Type: Separator X Dehydrator Other			
Land Type:			
	18', width 9'		
	, other		
Footage from reference:	65		
Direction from reference:	O Degrees East	f North	
	West		
Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)	6
groundwater) 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)	<i>></i>
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)	<i>O</i>
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)	0
Distance To SurfaceWater: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, rigation canals and ditches)	Less than 100 feet 100 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) (0 points)	<i>D</i> .
	RANKING SCORE (TOTA)	L POINTS):	0

	arted: Date Completed: 12 4 98
Date Remediation Sta	Parted: Date Completed:
Remediation Method:	Dyca Agrici.
(Check all appropriate sections)	Landfarmed Insitu Bioremediation
	Other
Remediation Location (i.e. landfarmed onsite, name and location of	: Onsite <u>X</u> Offsite
offsite facility) General Description	of Remedial Action: Excavation, BEDROCK Bottom.
Groundwater Encoun	tered: No X Yes Depth
Final Pit: Closure Sampling: (if multiple samples,	Sample location see Attached Documents
attach sample results and diagram of sample	Sample depth15' (WRTH SIDEWALL)
locations and depths)	Sample date
ll .	Sample Results
1	Soil: Benzene (ppm) O.0461 Water: Benzene (ppb)
	Total BTEX (ppm) 5.620 Toluene (ppb)
	Field Headspace (ppm) 225 / 3.4 Ethylbenzene (ppb)
	TPH (ppm) 4,200 Total Xylenes (ppb)
Groundwater Sample	e: Yes No X (If yes, attach sample results)
I HEREBY CERTIFY KNOWLEGE AND F	Y THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY SELIEF
DATE	2/4/98 PRINTED NAME Buddy D. Shaw
SIGNATURE BUS	Oly Shaw AND TITLE Environmental Coordinator
APPED DEVIEW OF	THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE A APACHE TRIBE PIT CLOSURE ORDINANCE.
APPROVED: YES 7	NO (REASON)
SIGNED:	-CMall DATE: 12-28-98

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199 FIELD REPORT: CLOSURE VERIFICATION PAGE NO: 1 of 1 LOCATION: NAME: TICD, COUTR. ISS WELL F. Z.5 PIT: SCP QUAD/UNIT: 0 SEC 30 TW 745 RNG SJ. PM: NRC CRIT'R ST.NICL DTR/FODIAGE: 1080-751, 1510-761. EXCAVATION APPROX. 18 FT. x 10 PT. DEEP. CUBIC VARDAGE: 115 EXCAVATION APPROX. 18 FT. x 10 PT. DEEP. CUBIC VARDAGE: 115 DISPOSAL FACILITY: 0 N-SITE REMEDIATION METHOD: CHOSERT. LAND USE: RENGE LEASE 71C 1SS FORMATION: NUCK FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 165 FT. DAS 5 FROM WELLHEAD. DEPTH TO DROUGHUNDVATER 2100 NAMEST VALUE STORED. 21000 PPM MICH TO DROVE WAREST VALUE STORED. 21000 PPM MICH TO DROVE WAS SURFICED ON METHOD: CHIESE UM. SIDELIBRUS - MORDIO TIPL CLOSURE STO 5000 PPM FIRM TO DESSE HE SHIRING SESENCED ON METH SIDELIAN BET. 1-7 SECON GLODE NO APPROXIMATELY SIDELIBRUS - MORDIO TIPL SECON SECON STORED BET. 1-7 SECON GLODE NO APPROXIMATELY BOTTOM - BEDDROCK (SENDISTIONS) MOD. MERCHATTON, TERMS THE ODOR IN MORTH SIDELIBRUS ONN SAMPLE OLD, LAB NO: WEIGHT (0) MICH INEON DILUTION READING CALC PPM BEDDROCK (SENDISTIONS) MOD. MEN SAMPLE OFT PERIMETER IN OVA RESULTS SAMPLE ID, LAB NO: WEIGHT (0) MICH INEON DILUTION READING CALC PPM BEDDROCK (SENDISTIONS) MOD. SAMPLE OFT PERIMETER IN OVA RESULTS SAMPLE ID, LAB NO: WEIGHT (0) MICH INEON DILUTION READING CALC PPM BEDDROCK (SENDISTIONS) NO. OVA RESULTS SAMPLE ID, LAB NO: WEIGHT (0) MICH INFO DILUTION READING CALC PPM BEDDROCK (SENDISTIONS) NO. OVA RESULTS SAMPLE ID, LAB NO: WEIGHT (0) MICH INFO DILUTION READING CALC PPM BEDDROCK (SENDISTIONS) NO. OVA BEDDROCK (SENDISTIONS) NO.			
DOCATION: NAME TICH, COSTR. ISS WELL # ZS PIT: SCP. QUAD/UNIT.O SEC. 30 TWP. ZG IS PMS. SW. PMS. NOT. CNTY. &A ST. NOT. QUAD/UNIT.O SEC. 30 TWP. ZG IS PMS. SW. PMS. NOT. CNTY. &A ST. NOT. QUAD/UNIT.O SEC. 30 TWP. ZG IS PMS. SW. PMS. NOT. CNTY. &A ST. NOT. QUAD/UNIT.O SEC. 30 TWP. ZG IS PMS. SW. PMS. NOT. CNTY. &A ST. NOT. QUAD/UNIT.O SEC. 30 TWP. ZG IS PMS. SW. PMS. NOT. CNTY. &A ST. NOT. QUAD/UNIT.O SEC. 30 TWP. ZG IS PMS. SW. PMS. NOT. QUAD/UNIT.O SEC. 30 TWP. ZG IS PMS. SW. PMS. ST. NOT. EXCAVATION APPROX. IS FT. x IS FT. x ZO FT. DEEP. CUBIC YARDAGE: ITS DISPOSAL FACILITY: DN - ST. E REMEDIATION METHOD: LAWDARM. LEASE: JIC ISS FORMATION: ANV CK. FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY ISS FT. DNC S. FROM WELLHEAD. SEPEL TANK INSTALLED FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY ISS FT. DNC S. FROM WELLHEAD. SEPLIAM TO DEASE HE SHAINING SECRES SUPPRACE WATER SUPPLIES. SIDELIBLIS - MOTORY AND SECRIPTION: STELL TANK INSTALLED FIELD AND EXCAVATION DESCRIPTION: STELL TANK INSTALLED FIELD AND EXCAVATION DESCRIPTION: STELL TANK INSTALLED FIELD AND SECREC SANDERS IN SOUND THE SECRES IN COLOR, VERY HALD, NO APPRICATE HE SOUND SET OF SECRES. SIDELIBLIAM TO DEASE HE SHAINING SECRES IN COLOR, VERY HALD, NO APPRICATE HE SOUND SET OF SECRES. SECULTS OFT PIT PERIMETER AND OWN RESULTS OVM RESULTS	CLIENT: AMOCO	P.O. BOX 87, BLOOMFIELI	D, NM 87413 COC NO. 6 7/9
QUAD/UNIT. O SEC 3D TWP ZED RIGS DE PIN MON CONTY RO STINM QUAD/UNIT. O SEC 3D TWP ZED RIGS DE PIN MON CONTY RO STINM EXCAVATION APPROX. 18 FT. x 19 FT. x 20 FT. DEEP. CUBIC YARDAGE 175 EXCAVATION APPROX. 18 FT. x 19 FT. x 20 FT. DEEP. CUBIC YARDAGE 175 DISPOSAL FACILITY: ON STITE REMEDIATION METHOD: CANDERRY LEASE: JIC 155 FORMATION: AND CANDERRY FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 165 FT. DUE S FROM VELLHEAD DEPTH TO GROUNDVATER: 2100 NEAREST VATER SOURCE 21000 NEAREST SURFACE VATER 10000 CHECK DIRE: VIT APPARENT SIDEMBLIS - MOSTLY THE YEAR SOUNCE STOD SOUD PPH SIDEMBLIS - MOSTLY THE YEAR SOUNCE STOD NOW CANDESTOR, SUCHELY MISTALLED FIRM TO DEISCH HE TRAINING 9858/NED ON MATH STOCKMAN BET. Z'Y SELVA GLADE WEST SIDEMAL SET. 1-7 SELVA GLADE NA APPARENT HE OOR DETECTED WID EXCAUSTION, STANKE HE GOOR IN MATH SIDEMBLIS - MOSTLY THE YOUNG NOW. STANKE HE GOOR IN MATH SIDEMBLIS - MOSTLY THE OWN SAMPLE DAY. BOTTOM - SEDDECK (SAMDTIONE) MOO. HELL GALELD IN COLOR, WAY HAND NO APPRIENT HE ODOR IN OWN TAMPLE OFT PIT PERIMETER IN OVM RESULTS TIME SAMPLE ID LAB NO: WEIGHT (g) ML FREON DILUTION READING CALC. PPM OFT PIT PERIMETER IN OVM RESULTS TIME SAMPLE ID LAB NO: WEIGHT (g) ML FREON DILUTION READING CALC. PPM OFT PIT PERIMETER IN OVM RESULTS TIME SAMPLE ID LAB NO: WEIGHT (g) ML FREON DILUTION READING CALC. PPM OFT PIT PERIMETER IN OVM RESULTS TIME SAMPLE ID LAB NO: WEIGHT (g) ML FREON DILUTION READING CALC. PPM OVM RESULTS THE STANK INSTALLED TIME SAMPLE ID LAB NO: WEIGHT (g) ML FREON DILUTION READING CALC. PPM OFT PIT PERIMETER IN OVM THE STANK INSTALLED THE SAMPLE ID LAB NO: WEIGHT (g) ML FREON DILUTION READING CALC. PPM OFT PIT PERIMETER IN OVM THE SAMPLE ID LAB NO: WEIGHT (g) ML FREON DILUTION READING CALC. PPM THE STANK INSTALLED THE PROPHENCE IN INVENTOR SECONDS. THE PROPHENCE IN INVEN	FIELD REPOR'	Γ: CLOSURE VERI	
DISPOSAL FACILITY: DN-51TE REMEDIATION METHOD: CHAPERARM LEANE LEASE: JIC 155 FORMATION: MU/CK FIELD NOTES & REMARKS: PIT LDCATED APPROXIMATELY 165 FIT DWG 5 FT. DWG 5 FROM WELLHEAD. DEPTH TO GROUNDVATER. 2100 'NEAREST WATER SDURCE: 21000' NEAREST SURFACE WATER. 21000' MMODED RANKING SCORE: D MNOCD TPH CLOSUFE STD. 5000 PPM SOUL AND EXCAVATION DESCRIPTION: SIDEWALLS - MOSTLY MUE YOU. BROWN SILTY SAND NOW CHESTOE, SUGMENY MISSTALLED FIRM TO DENSE HE SHINING '85SERVED ON WAITH SIDEWALL BET. 7' 4' BELOW GLADE WEST SIDEWALL BET. 1'-7' BELOW GLADE NO APPRIENT HE ODOR DETECTED WIND EXCAUATION, STRING HE OOOR IN WITHH SIDEWALL OWN SAMPLE ONLY. BOTTOM - BEDDROCK (SANDSTUNE) MOD. HEUL GAREN IN COURR, VERY HALD NO APPRIENT HE ODOR IN WITHH SCALE OFT PIT PERIMETER AN OVM SCALE OFT PIT PERIMETER AN OVM PIT PROFILE OVM A A A A A A A A A A A A A	QUAD/UNIT: SEC: 30	TWP: ZEN RNG: 5W PM: NM	CNTY: RA ST: NM ENVIRONMENTAL ACT
DEPTH TO GROUNDWATER. \$100 NEAREST VATER SQUECE. \$7000 NEAREST SURFACE OF CHECK DNE. CHECK DN. CHECK DN	DISPOSAL FACILITY:	DN-SITE REME	FORMATION: MU/CK
BOTTOM - BEDROX (SANDSTONE) MOD. HELL, GREEN IN COLOR, LENY HARD, NO APPARENT HC ODOR IN OUN SAMPLE. FIELD 418.1 CALCULATIONS BEDROX FIELD 418.1 CALCULATIONS SCALE OBYS OVM RESULTS SAMPLE ID LAB NO: WEIGHT (9) ML. FREON DILUTION READING CALC. ppm OVM RESULTS SAMPLE FIELD HARDSPACE 10 10 10 10 10 10 10 10 10 10 10 10 10 1	DEPTH TO GROUNDWATER: >10 NMOCD RANKING SCORE: 5	NEAREST WATER SOURCE: 27005 NMOCD TPH CLOSURE STD: 5000	PPM CHECK ONE: Y PIT ABANDONED STEEL TANK INSTALLED
TIME SAMPLE I.D. LAB NO: WEIGHT (9) ML. FREON DILUTION READING CALC. ppm SCALE OFT PIT PERIMETER N OVM RESULTS SAMPLE FIELD HEADSPACE PID (ppm) 1 @ 15' ZZZS 2 @ 15' D.D.D 3 @ 14' 3.4' 4 @ 15' D.D.D SOUND SOU	SIDEWA	ic our sample out.	
SCALE OFT PIT PERIMETER OVM RESULTS SAMPLE FIELD HEADSPACE PPO (ppm) 1 @ 15' ZZ5 2 @ 15' D-O 3 @ 14' 3.4' 4 @ 15' O.D 5 @ ZD' 3.4' PIT PROFILE OVM A 19' A INTERIMETER OVM RESULTS 2 @ 15' D-O 3 @ 14' 3.4' 4 @ 15' O.D 5 @ ZD' 3.4' PIT PROFILE ONA A 19' A BEDROCK		FIELD 41	18.1 CALCULATIONS
OVM RESULTS SAMPLE FIELD HEADSPACE PID (ppm) 1 @ 15' ZZS 2 @ 15' D.D 3 @ 14' 3.4' 4 @ 15' O.D 5 @ ZO' 3.4' TOUCH PRESULTS SAMPLE FIELD HEADSPACE PID (ppm) 1 @ 15' D.D 3 @ 14' 3.4' 4 @ 15' O.D 5 @ ZO' 3.4' BEDROCK	O FT	<i>O</i> ₹45	
TRAVEL NOTES: ONLOUT.	A SEP A SEP A SEP A SEP A A SEP A	OVM RESULTS SAMPLE FIELD HEADSPACE 10 13 ZZS 2 @ 15 2 ZZS 2 @ 15 0.0 3 @ 14 3.4 4 @ 15 0.0 5 @ ZO' 3.4 DOULT SUPPE DIRECT, LAB SAMPLES SAMPLE ANALYSIS Dels' TPH1 BTGX	TIME



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix: Preservative: Condition:	Blagg / AMOCO 1 @ 15' E259 6419 Soil Cool Cool and Intact	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	04034-10 12-04-98 12-03-98 12-04-98 12-04-98 12-04-98 8015 TPH
--	---	---	--

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	642	0.2
Diesel Range (C10 - C28)	3,550	0.1
Total Petroleum Hydrocarbons	4,200	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 #155 - 25 Separator Pit.

Analyst L. Openson

Stacy W Sendler



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID: Laboratory Number: Chain of Custody: Sample Matrix:	Blagg / AMOCO 1 @ 15' E259 6419 Soil	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed:	04034-10 12-04-98 12-03-98 12-04-98 12-04-98
Preservative: Condition:	Cool & Intact	Date Extracted: Analysis Requested:	12-0 4 -98 BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
_	40.4	8.8
Benzene	46.1	
Toluene	964	8.4
Ethylbenzene	421	7.6
p,m-Xylene	2,880	10.8
o-Xylene	1,310	5.2
Total BTEX	5,620	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	98 %
	Bromofluorobenzene	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-846,

USEPA, December 1996.

Comments:

Jicarilla Contract #155 - 25 Separator Pit.

Alexan R. Ogeneen

Stacy W Sendler
Review

CHAIN OF CUSTODY RECORD

Received Intact Cool - Ice/Blue Ice	lighway 64 v Mexico 87401 32-0615	5796 U.S. Highway 64 Farmington, New Mexico 87401 (505) 632-0615			
Sample Receipt Y N N/A	CH INC.	ENVIROTECH		1249-11109	Ry coc
	Received by: (Signature)	Re		e)	Relinquished by: (Signature)
	Received by: (Signature)	12/4/98 0732 Re) S. C.	Relinquished by: (Signature)
Date Time	Received by: (Signature)			F	Relinquished by: (Signature)
PRESERV - COOL					
BOTH SAMPLES					
SEPARATAR PIT	\ \ \	3 2012	5223	12/3/98 0845	0 e 15'
SLOW III	<	2016	5258	12/3/98 0920	208
i	Col	Sample Matrix	Lab Number	Sample Sample Date Time	Sample No./
	No. of Intainers OH 15) EX DZ PH 18.1)	410	Client No. 04/03 4-10		Sampler: ルプレ
Remarks		JICARILLA CONTRACT \$ 155 - 25	TICARILLA (CO	BLAGG/ AMOCO
RAMETERS	ANALYSIS / PARAMETERS		Project Location		Client / Project Name

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 CONTRACT 155	. 25
Location: Unit or Qtr/Qtr Sec O Sec 30 T2	CON REW County RIOARRIBA
Land Type: RANGE	
Date Remediation Started: 12.3.98	Date Completed: 6/9/99
Remediation Method: Landfarmed	Approx. cubic yards 925
Composted	•
Other	
repth To Groundwater: (pts.)	Final Closure Sampling:
Distance to an Ephemeral Stream (pts.)	Sampling Date: 6899 Time: 0920
Distance to Nearest Lake, Playa, or Watering Pond (pts.)	Sample Results:
Wellhead Protection Area: (pts.)	Field Headspace (ppm) 201.2
Distance To SurfaceWater: (pts.)	TPH (ppm) 3,610 Method 8021
	Other BEAZENE 1.060 ppm
RANKING SCORE (TOTAL POINTS):	TOT. BIEX 24,080 ppm
I HEREBY CERTIFY THAT THE INFORMATION ABOVE KNOWLEGE AND BELIEF	E IS TRUE AND COMPLETE TO THE BEST OF MY
DATE $6/9/99$, PRINTED 1	NAME Buddy D. Shaw
SIGNATURE Bully S. Show	
AFTER REVIEW OF THE SOIL REMEDIATION INFORM ACCORDANCE TO THE JICARILLA APACHE TRIBE PI	IATION, ON-SITE REMEDIATION IS APPROVED IN T CLOSURE ORDINANCE.
APPROVED: YES NO (REASON)	
SIGNED: DATE);

REMEDIATION SYSTEM: LANDEACH LAND USE: ROUNGE LIFT DEPTH (ft): 1 FELD NOTES & REMARKS: DEPTH TO GROUNDWATER 2/00 NAMES VATER SOURCE: 2/000 NEAREST SURFACE VATER 2/000 NEAREST SURFACE VAT									
FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION CCATION: NAME CONTRACT ISS WELL #: 25 PITS SER, BLOW QUAD/UNIT: O SEC 30 TWP. 26N RNG. SW. PM.NM. CNTV.EA. ST.NM. DATE STATED & 68 99 CATION: NAME CONTRACTOR: TYS SOUL REMEDIATION: REMEDIATI	CLIENT: AMOCO	P.O. BOX 87	, BLOOMI	TELD,	NM 8	1			
QUAD/UNIT O SEC. 30 TWP. 260 RING. SW. PANAM CNTY EA STAM 2*PLEDIATION: REMEDIATION SYSTEM: LANDFREM LAND USE REMEDIATION SYSTEM: LANDFREM LANDFREM LANDFREM REMEDIATION SYSTEM: LANDFREM LANDFREM LANDFREM REMEDIATION SYSTEM: LANDFREM APPROX. CUBIC YARDAGE: 925 LIFT DEPTH (ft): 1' REMEDIATION SYSTEM: LANDFREM LANDFREM REMEDIATION SYSTEM: LANDFREM APPROX. CUBIC YARDAGE: 925 LANDFREM LANDFREM LANDFREM LANDFREM REMEDIATION SYSTEM: LANDFREM LANDFREM REMEDIATION SYSTEM: LANDFREM LANDFREM REMEDIATION SYSTEM: LANDFREM APPROX. CUBIC YARDAGE: 925 LANDFREM LANDFREM LANDFREM LANDFREM LANDFREM REMEDIATION REARRIS SURFACE VAIER: 1000' REMEDIATION SEPTIME SAMPLE ID LAB NO: WEIGHT (g) IND. FREON DILUTION READING CALC. ppm SEPTIME SAMPLE ID LAB NO: WEIGHT (g) IND. FREON DILUTION READING CALC. ppm SEPTIME SAMPLE ID LAB NO: WEIGHT (g) IND. FREON DILUTION READING CALC. ppm REMEDIATION SEPTIME SAMPLE ID LAB NO: WEIGHT (g) IND. FREON DILUTION READING CALC. ppm REMEDIATE VAIER SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLES SAMPLE MARGES SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLES SAMPLE MARGES SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLE SAMPLES SAMPLE MARGES SAMPLE	FIELD REPO					SURE	VERIF	'ICA'	ΓΙΟΝ
QUAD/UNIT O SEC 30 TWP. 26N RNG. SW PMAM CNTYEA STIME DTP/FDDTAGE SW/4 56/4 CONTRACTOR: PAS SCIL REMEDIATION: REMEDIATION SYSTEM: LANDFARM APPROX. CUBIC YARDAGE: 925 LAND USE: RANGE LIFT DEPTH (ft): 1 FIELD NOTES & REMARKS: DEPTH TO DEPLINDWATER > 1000 NEAREST VATER SOURCE: > 1000 NEAREST SURFACE VATER > 1000 NEAREST SURFACE VATER > 1000 NECESTARISM SAND, NON CONSSIVE SCIENTUMO ST, FIRM APPROX OF STAINING IN LANDFARM AREAT 1.47 2 (SEE SKETCH BELOW) HE OLOR DETECTED IN SAMPLING PTS O + 0. SAMPLING DEPTHS BANGE FROM U . 10' SOULLETED A SPT COMPOSITE SAMPLE FOR LAS MALVESS SAMP. TIME SAMPLE LD LAB NG: WEIGHT (g) m FREON DILUTION READING CALC. ppm SKETCH/SAMPLE LOCATIONS SKETCH/SAMPLE LOCATIONS SKETCH/SAMPLE LOCATIONS SCALE O FT SCALE O FT SCALE O FT	LOCATION: NAME: CO	ARILLA NTRACT 155 WELL	L #: 25	PITS:≤	EP., BLOU				
D'P/FDDTAGE SW/4 SE/4 CONTRACTOR PS SOIL REMEDIATION: REMEDIATION SYSTEM: LANDFARM LAND USE: RANGE LIFT DEPTH (ft): 1' FELD NOTES & REMARKS: CEPTH TO DEPUNDVATER. 200' NEAREST WATER SOURCE: > 1000' NEAREST SURFACE WATER > 1000' MECCO RANKING SCORE: 0 NMOCD TPH CLOSURE STD \$200 PPM MOFERITE VELLOWISU BEOWN! SAND, NON CONES. SCIENTIVE HOLST, FIRM LARDE AREN OF \$17 MINING IN CANDERDAM RECART 1-#7 2 (SEE'S KETCH BEOW) HO COLD ESTECTED IN SOMPLING PTS 0 + 0, SAMPLING DEPTHS BENGE FROM U'. O' COLLECTED A STP COMPASITE CAMPLE FOR LAB ANALYSIS CLOSED SKETCH/SAMPLE LOCATIONS FIELD 418.1 CALCULATIONS SKETCH/SAMPLE LOCATIONS SKETCH/SAMPLE LOCATIONS SKETCH/SAMPLE LOCATIONS SCALE O FT SCALE O FT SCALE O FT						T:NM -			
REMEDIATION SYSTEM: LANDEACH LAND USE: ROUGE LIFT DEPTH (ft.):							ENVIRONMEN SPECIALIST:	VIAL R	EP
EAND USE: RANGE REMARKS: DEFIN TO GROUNDWATER.2/20. NEAREST VATER SOURCE: 2/00. NEAREST SURFACE VATER \$1000. NEAREST SURFACE VATER \$1000. NORCESTARNING SCORE: 0 NAGCO THE CLOSURE STO \$200 PPM MORECUTER ARRIVES VELLOWISU EXPONENT SAND, NOW COMESIVE, SCHAPTLY MOIST, FIRM LARDE AREA OF STAINING IN LANDERSMAN AREA 1-47 2 (SEE SWETCH BELOW) HE OBOR DETECTED IN SAMPLING PTS Q + Q. SAMPLING DEPTHS EARISE FROM U: 10° COLUMN SAMPLE ID. LAB NO: WEIGHT (g) ML. FREON DILUTION READING CALC. PPM SAMP. TIME SAMPLE ID. LAB NO: WEIGHT (g) ML. FREON DILUTION READING CALC. PPM SECULTS SECULTS SECULTS SUBJECT FOR PROSPECT OF ANALYSIS IN THE RESULTS SUBJECT FOR PROSPECT	SOIL REMEDIATION:								
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FIELD NOTES & REMARKS: DEPTH TO GROUNDWATER > 100' NEAREST VATER SOURCE > 1000' NEAREST SURFACE VATER > 1000' NOMECO RANKING SCORE: O NUMBED THE CLOSURE STD \$000 PPM MODERATE YELDMISU BROWN SAND, NON COHESIVE, SCHOOL VALUE, FIRM LARGE AREA OF STAINING; IN LANDFARM AREA 1+ 1+ 2 (SEE SKETCH BELOW) HE OBOR DETECTED IN SAMPLING PTS O + Q. SAMPLING DEPTHS RANGE FROM U 10' COLLECTED A SFT COMPOSITE CAMPLE FOR LAR ANALYSIS CLOSED FIELD 4181 CALCULATIONS SAMP, TIME SAMPLE LOCATIONS SKETCH/SAMPLE LOCATIONS SKETCH/SAMPLE LOCATIONS SAMPL TIME SAMPLE LOCATIONS SAMPL TIME SAMPLES SAMPLES SAMPL TIME SAMPLES SA				' 4 1.1	r DEPTH	I (ft):			
NAMES AMPLE LOCATIONS SKETCH/SAMPLE LOCATIONS SCALE O FT SCALE O FT							·		
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EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix: Preservative: Condition:	Blagg / AMOCO LF - 1 F470 7068 Soil Cool	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	403410 06-09-99 06-08-99 06-09-99 06-09-99 8015 TPH
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Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	699	0.2
Diesel Range (C10 - C28)	2,910	0.1
Total Petroleum Hydrocarbons	3,610	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 155 - 25 Landfarm. 5 Pt. Composite.

Analyst L. Oferen

Stacy W Sendler
Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

	•		
Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	06-09-99
Laboratory Number:	F470	Date Sampled:	06-08-99
Chain of Custody:	7068	Date Received:	06-09-99
Sample Matrix:	Soil	Date Analyzed:	06-09-99
Preservative:	Cool	Date Extracted:	06-09-99
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1,060	8.8
Toluene	8,890	8.4
Ethylbenzene	1,060	7.6
p,m-Xylene	8,690	10.8
o-Xylene	4,380	5.2
Total BTEX	24,080	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene Bromofluorobenzene	100 % 100 %

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 155 - 25 Landfarm. 5 Pt. Composite.

Alexa R. Ogice

Stacy W Sendler
Review

CHAIN OF CUSTODY RECORD

Client / Project Name	Project Location LANDFARM	MADEARM			ANAIYSIS	ANALYSIS / PARAMETERS	ΣŌ		
BLACES/AMOCO	TICAPILLA	TICARILLA CONTRAT 155-25	5						
Sampler:	Client No.)			Remarks	arks	
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		5796 U.S. Highway 64	ghway 6	4		Rec	Received Intact	7	Ž
		Farmington, New Mexico 8/401 (505) 632-0615	Mexico 2-0615	8/401	·	Cool	Cool - Ice/Blue Ice	1	\;\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\