# JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P.O. BOX 507 DULCE, NEW MEXICO 87528 AUG 1 6 1999 PIT REMEDIATION AND CLOSURE REPORT COLUMN DATE P.O. BOX 507

NATURAL RESOURCE DEPT

Operator: AMOCO PRODUCTION COMPANY	Telephone: (505) 326-9200
and Among Court, Farmington, Ni	м 87401
Facility or Well Name:	# 146-19 
Location: Unit or Qtr/Qtr Sec_A Sec_4 T_25	SN R SW County X/V /7XC/617
Pit Type: Separator Dehydrator Other	
Land Type:	
I II LACATION	60', width <u>45'</u> _, depth_23'
(Attach diagram)  Reference: wellhead X,	other
Footage from reference: 195  Direction from reference: 4	-4 Degrees X East North X
Direction from reference.	West South
Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points)
groundwater)  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)
	RANKING SCORE (TOTAL POINTS):

BJ675	Bron	4	17
		3	ما

	Date Completed:98.
Date Remediation Started:	Approx. cubic yards
Remediation Method: Excavation	Insitu Bioremediation
sections) Landfarmed	
Other	
(i.e. landfarmed onsite, name and location of  offsite facility)	PENGER ROTTOM
General Description of Remedial Action: Excavation	on . Besteen Berry
Groundwater Encountered: No × Yes	Depth
Final Pit: Sample location see Attache	d Documents
Closure Sampling:	
(if multiple samples, attach sample results	TH SIDEWAY)
and diagram of sample Sample depth	Sample time /3/5
locations and depths)  Sample date	Sample time
Sample Results	Water: Benzene (ppb)
Soil: Benzene (ppm)	
Total BTEX (ppm)	Toluene (ppb)
Field Headspace (ppm)	90.8 Ethylbenzene (ppb)
TPH (ppm)	88.6 Total Xylenes (ppb)
Groundwater Sample: Yes No	(If yes, attach sample results)
I HEREBY CERTIFY THAT THE INFORMATION ABO KNOWLEGE AND BELIEF	OVE IS TRUE AND COMPLETE TO THE BEST OF MY
DATE 10/27/98 PRINTED	NAME Buddy D. Shaw
SIGNATURE BURLY D. Show AND TI	TLE Environmental Coordinator
AFTER REVIEW OF THE PIT CLOSURE INFORMATI TO THE JICARILLA APACHE TRIBE PIT CLOSURE	ION, PIT CLOSURE IS APPROVED IN ACCORDANCE ORDINANCE.
APPROVED: YES NO (REASON)	· .
	: 12-28-98

	· · · · · · · · · · · · · · · · · · ·	<del></del>
CLIENT: AMOCO	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 874 (505) 632-1199	13 LOCATION NO: 83675 C.O.C. NO: 6320
FIELD REPOF	RT: CLOSURE VERIFICATIO	N PAGE No: _/_ of _/_
QUAD/UNIT: A SEC: 4	NT 146 WELL #: 19 PIT: BLOW TWP: 25N RNG: SW PM: NM CNTY: RAST: N NE/4 CONTRACTOR: PAUL	DATE STARTED:  DATE FINISHED: 10/23/99  ENVIRONMENTAL SPECIALIST:
EXCAVATION APPROX	ONSITE REMEDIATION ME LEASE: JIC CONT 146	THOD: LANDFALM
FIELD NOTES & REMAR	RKS: PIT LOCATED APPROXIMATELY 195 F  NEAREST WATER SOURCE: >1000 NEAREST SU  NMOCD TPH CLOSURE STD: 5000 PPM	T. N44É FROM WELLHEAD.  URFACE WATER: >100 )  CHECK ONE:  PIT ABANDONED  STEEL TANK INSTALLED
ORFINGE YELLOW, DR 20' Deptu. MINOR	Y TO MOIST, COHESIVE, FIRM SILTY Sand TIC ODOR ON SOUTH & WAST WENTS - NO TOXX @ 20'. MINOR FIC DEOR, NO STA	HC STAD.
BEDROCK CLOS BOTTOM  SCALE  O FT  PIT PERIM	TIME SAMPLE I.D. LAB NO: WEIGHT (g) mL. FREG	NS ON DILUTION READING CALC. ppm PIT PROFILE
A B B	OVM RESULTS  SAMPLE   FIELD HEADSPACE   PID (ppm)  IN@ 10	BLUE SHALE REDEAK
TRAVEL NOTES: CALLOU	T:ONSITE:	



# EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	Blow S @ 18'	Date Reported:	10-27-98
Laboratory Number:	E099	Date Sampled:	10-23-98
Chain of Custody No:	6320	Date Received:	10-26-98
Sample Matrix:	Soil	Date Extracted:	10-26-98
Preservative:	Cool	Date Analyzed:	10-26-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	25.3	0.2
Diesel Range (C10 - C28)	63.3	0.1
Total Petroleum Hydrocarbons	88.6	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 146 Well 19.

Analyst M Walter

Taly W. Jendle-

# CHAIN OF CUSTODY RECORD

Cool - Ice/Blue Ice	-	5	ton, N°∵√ Mexic	Farmington, N° Nexico 8/401 (505)2-0615				
Received Intact		ıy 64	. Highwa	5796 U.S. Highway 64	i			
Y N N	•	=				1 हर	9 - 5189	Lap coc ps
Sample Receipt		50	2	FOVIDOTECH I				
		Received by: (Signature)	Received				lure)	Relinquished by: (Signature)
		by: (Signature)	Rećeived				ure) /	Relipedished by: (Signature)
<u>0</u>	· Destero	Received by: (Signature)		10/14/15 0720	Jî		ure)	Relinquished by: (Signature)
Date								
-								
						- 1		
		X		2012	E099	/3/5	10/2%	R, ou S, & 18
		TP 801	N	Sample Matrix	Lab Number	Sample Time	Sample Date	Sample No./
Florestics		tainers H	o. of	1-10	Client No. 04034-10	·	75	Samples: C. Blass
	ANALYSIS / PARAMETERS		٥	RT HE Well	TICARILA CONTRACT HG Well 19		$\omega$	BLAGE/AMOCO
			1					

### **B1612**

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, M	IM 87401	
Estitus or Wall Name: JOANUA CONTR	ACT #146-19	
Location: Unit or Qtr/Qtr Sec A Sec 4 TZ	SN R SW County R10 ARRIB	<del>17</del>
Pit Type: Separator Dehydrator Other		
Land Type: RANG€		
I'll Location.	/5', width36', depth	
	other	
Footage from reference: 90	5' 4.7 - X Foot North	•
Direction from reference:	Degrees X East North of West South	<u>×</u>
Depth To Groundwater: (Vertical distance from contaminants to seasonal high water elevation of groundwater)	Less than 50 feet (20 pc 50 feet to 99 feet (10 pc Greater than 100 feet (0 pc	oints)
Distance to an Ephemeral Stream (Downgradient dry wash greater than ten feet in width)	Greater than 100 feet (0 p	ooints) O
Distance to Nearest Lake, Playa, or Watering Pond (Downgradient lakes, playas and livestock or wildlife watering ponds)	Less than 100 feet (10 p Greater than 100 feet (0 p	points)
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or: less than 1000 feet from all other water sources)	No (0 <sub>1</sub>	points)
Distance To SurfaceWater: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	100 feet to 1000 feet (10	points) points) points)
n .	RANKING SCORE (TOTAL POIN	NTS):

	1100
Date Remediation Sta	arted: Date Completed:
Remediation Method:	Excavation Approx. cubic yards
Theck all appropriate sections)	Landfarmed Insitu Bioremediation
	Other
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility)	
General Description	of Remedial Action: Excavation ENTIRE EXCAUATION IN BEDROCK
THEREFORE NO	TPH ANALYSIS WAS CONDUCTED.
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 depth 7' (PIT Remorn)
locations and depths)	Sample date $\frac{10/23/98}{2}$ Sample time $\frac{1445}{2}$
	Sample Results
н	Soil: Benzene (ppm) Water: Benzene (ppb)
	Total BTEX (ppm) Toluene (ppb)
	Field Headspace (ppm) 52.4 Ethylbenzene (ppb)
	TPH (ppm) Total Xylenes (ppb)
Groundwater Sample	e: Yes No X (If yes, attach sample results)
I HEREBY CERTIFY KNOWLEGE AND B	Y THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF M'BELIEF
DATE	10/23/98 PRINTED NAME Buddy D. Shaw
	Oly D. Show AND TITLE Environmental Coordinator
A PARED DEVIEW OF	THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE APACHE TRIBE PIT CLOSURE ORDINANCE.
APPROVED: YES	NO (REASON)
SIGNED:	Ma DATE: 12-28-98

FIELD REPORT: CLOSURE VERIFICATION PAGE NO (505) 632-1199  FIELD REPORT: CLOSURE VERIFICATION PAGE NO (505) 632-1199  CCATION: NAME: Jic CONT 1416 WELL #: 19 PIT: SEPARATOR QUAD/UNIT: A SEC: 4 TWP: 25N RNG: SW PM: NMCNTY: RA ST: NM STR/FOOTAGE: NE/4 NE/4 CONTRACTOR: PAUL  EXCAVATION APPROX. 15 FT x 36 FT x 7 FT. DEEP. CUBIC YARDA STEINAND USE: RANGE LEASE: Jic CONT 146 FORMATION WETHOD: LEAD USE: RANGE LEASE: Jic CONT 146 FORMATION DESCRIPTION:  FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 90 FT. S43E  DEPIT TO GROUNDWATER: POWD NEAREST WATER SOURCE: POWD NEAREST SUFFACE WATER STEEL: TIBERGE  STILL AND EXCAVATION DESCRIPTION:  PUT LOCATED IN SANDETINE BEDIEVE VEILOU OF OWN ONLY TOPP 17 STEEL: TIBERGE  FIELD 418.1 CALCULATIONS  TIME SAMPLE ID. LAB NO: WEIGHT (9) ML. FREON DILUTION IN SCALE  TIME SAMPLE ID. LAB NO: WEIGHT (9) ML. FREON DILUTION IN SCALE	•
QUAD/UNIT: A SEC: 4 TWP: ZSN RNG: SW PM. NMCNTY: RAST: NM OTR/FOOTAGE: NE/4 NE/4 CONTRACTOR: PAUL  EXCAVATION APPROX. 15 FT. x 36 FT. x 7 FT. DEEP. CUBIC YARD/ SYCIALS STEAM STEAM SYCIALS STEAM SYCIALS STEAM SYCIALS STEAM SYCIALS SYCIALS LEASE: JIC CONT. 146 FORMATION METHOD: LAND USE: FLANSE LEASE: JIC CONT. 146 FORMATION METHOD: LAND USE: FLANSE LEASE: JIC CONT. 146 FORMATION FORMATION OF THE LONG PARKING SCORE: O NABORD THE CLOSURE STD. SOJO PARKING SCORE: TAN - N.  FIELD 418.1 CALCULATIONS  TIME SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DILUTION IN GEODERY  TOP 1' J. RT. IC ECON STATE. NO OWN. IND. STATE.  SCALE  O FT  PIT PERIMETER  OVM  RESULTS  SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DILUTION IN GEODERY  RESULTS  SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DILUTION IN GEODERY  RESULTS  SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DILUTION IN GEODERY  TIME SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DILUTION IN GEODERY  RESULTS  SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DILUTION IN GEODERY  RESULTS  SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DILUTION IN GEODERY  RESULTS  SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DILUTION IN GEODERY  TIME SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DILUTION IN GEODERY  TOP 1' J. RT. IC ECON STATE. SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DILUTION IN GEODERY  TOP 1' J. RT. IC ECON STATE. SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DILUTION IN GEODERY  TOP 1' J. RT. IC ECON STATE. SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DILUTION IN GEODERY  TOP 1' J. RT. IC ECON STATE. SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DILUTION IN GEODERY  TOP 1' J. RT. IC ECON STATE. SAMPLE I.D. LAB NO: WEIGHT (g) ML. FREON DILUTION IN GEODERY  TOP 1' J. RT.	ON NO: <b>83675</b> J.C. NO:
QUAD/UNIT: A SEC: 4 TWP: ZSN RNG: SW PM: NMCNTY: RAST: NM QUAD/UNIT: A SEC: 4 TWP: ZSN RNG: SW PM: NMCNTY: RAST: NM STERING ST	No: 1 of 1
EXCAVATION APPROX. 15 FT. x 36 FT. x 7 FT. DEEP. CUBIC YARDA DISPOSAL FACILITY: 2N SITE REMEDIATION METHOD: LAND USE: FAME LEASE: Jic GNT 146 FORMATION SITE LAND USE: FAME LEASE: Jic GNT 146 FORMATION USE: FAME LEASE: Jic GNT 146 FORMATION DISCONTINUOUS NEAREST WATER SDURCE: 21000 NEAREST SURFACE WATER STEEL. 21000 NEAREST SURFACE WATER SDURCE: 21000 NEAREST SURFACE WATER SDURCE: 21000 NEAREST WATER SDURCE: 21000 NEAREST SURFACE WATER SDURCE: 21000 NEAREST WATER SDURCE: 21000 NEAREST SURFACE WATER SDURCE: 21000 NEAREST WATER SDURCE: 21000 NEARE	RTED:
DEPTH TO GROUNDVATER: SOUND NEAREST WATER SIDURCE: \$7000 NEAREST SURFACE WATER  NMOCD PANKING SCORE: \$\int \text{ NMOCD TPH CLOSURE STD. } \int \text{SOJO PPM} \$\text{ NPT ABOUT AND EXCAVATION DESCRIPTION:} \$\text{ STELL.} \text{ FIBERGE FIBERGE} \$\text{ STELL.} \text{ FIBERGE FIBERGE} \$ NO. OF COLUMN ONLY FOR ONLY FOR ONLY FOR ONLY FOR ONLY FOR ONLY FIELD 418.1 CALCULATIONS FILED 418.1 CALCULATIONS  TIME SAMPLE I.D. LAB NO: WEIGHT (g) mL FREON DILUTION SCALE  O FT  PIT PERIMETER  OVM  RESULTS  SAMPLE RECURRESSPACE FIRE PROSPACE FIRE (ppm) (ppm) 10.0 pm; (ppm) 10.	NGE: 100 NDFACM
FIELD 418.1 CALCULATIONS  TIME SAMPLE I.D. LAB NO: WEIGHT (g) ml. FREON DILUTION  SCALE  O FT  PIT PERIMETER  OVM  RESULTS  SAMPLE   FIELD HEADSPACE   FIELD	K <u>ONE</u> : INDONED TANK INSTALLED
PIT PERIMETER  OVM  RESULTS  SAMPLE FIELD HEADSPACE PID (ppm)  1C@ 7' 52.4  2 @ 3 @ 4 @ A A	
	)FILE
LAB SAMPLES  SAMPLE ANALYSIS TIME  DEDICAL	DNE CK

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

SUBMIT 1 COPY TO

NATURAL RESOURCE DEPI

AND OIL & GAS ADMINISTRATION

# **ON-SITE SOIL REMEDIATION REPORT**

Operator: AMOCO PRODUCTION COMPANY	Y Telephone: (505) 326-9200
Address: 200 Amoco Court, Farmin	-
Facility or Well Name: JICARILLA CONTRA	CT 146.19
Location: Unit or Qtr/Qtr Sec_A Sec_	4 T 25N R SW County RIO AZZIBA
Land Type: Lawls E	
Date Remediation Started:	Date Completed: 5/10/99  Approx. cubic yards 1900
pth To Groundwater: (pts.)	Final Classes Carelle
Distance to an Ephemeral Stream (pts.)  Distance to Nearest Lake, Playa, or Watering Pond (pts.)  Wellhead Protection Area: (pts.)  Distance To SurfaceWater: (pts.)	Sampling Date: 5.7.99 Time: 1245/  Sample Results: 15-1 / LF-2  Field Headspace (ppm) 161.8   333.2  C
I HEREBY CERTIFY THAT THE INFORMATION KNOWLEGE AND BELIEF	N ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY
	INTED NAME Buddy D. Shaw  AND TITLE Environmental Coordinator
ACCORDANCE TO THE JICARILLA APACHE T	INFORMATION, ON-SITE REMEDIATION IS APPROVED IN TRIBE PIT CLOSURE ORDINANCE.
SIGNED:	DATE:

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199    C.D.C. NO. 6915
FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION
QUAD/UNIT: A SEC: 4 TWP:25N RNG: 5W PM: NM CNTY: RA ST:NM
QTR/FOOTAGE: NE/4 NE/4 CONTRACTOR: P45 ENVIRONMENTAL SPECIALIST:
REMEDIATION:  REMEDIATION SYSTEM: LANDFARM APPROX. CUBIC YARDAGE: 1900  LAND USE: ZANGE LIFT DEPTH (ft): 1.5
FIELD NOTES & REMARKS:  DEPTH TO GROUNDWATER: > 100' NEAREST WATER SOURCE: > 1000' NEAREST SURFACE WATER: > 1000'
NMETO RANKING SCORE: NMOCD TPH CLOSURE STD: \$600 PPM
SAMP. TIME SAMPLE I.D. LAB No: WEIGHT (9) ML. FREON DILUTION READING CALC. ppm  SKETCH/SAMPLE LOCATIONS  O OVM RESULTS LAB SAMPLES
SAMPLE FIELD HEADSPACE SAMPLE ANALYSIS TIME RESULTS  ID TPT
B SAOE B LANDFARM " FOT. BEX " 8240
LF-Z (8015) 1340 Z 448  " SENTENE " 293
LANDFARM AREA #2  SCALE  O FT
TRAVEL NOTES: CALLOUT: N/A ONSITE: 5-7-99



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

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	05-10-99
Laboratory Number:	F181	Date Sampled:	05-07-99
Chain of Custody No:	6915	Date Received:	05-10-99
Sample Matrix:	Soil	Date Extracted:	05-10-99
Preservative:	Cool	Date Analyzed:	05-10-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)		
Gasoline Range (C5 - C10)	116	0.2		
Diesel Range (C10 - C28)	3,020	0.1		
Total Petroleum Hydrocarbons	3,140	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 146 - 19 Landfarm. 5 Pt. Composite.

Decen L. Ogeccan

Stacy W Sendler



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

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	LF - 2	Date Reported:	05-10-99
Laboratory Number:	F182	Date Sampled:	05-07-99
Chain of Custody No:	6915	Date Received:	05-10-99
Sample Matrix:	Soil	Date Extracted:	05-10-99
Preservative:	Cool	Date Analyzed:	05-10-99
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	718	0.2
Diesel Range (C10 - C28)	1,730	0.1
Total Petroleum Hydrocarbons	2,450	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 146 - 19 Landfarm. 5 Pt. Composite.

Alexan A. Cylencen

Stacy W Sendler



# EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Blagg / AMOCO	Project #:	403410
Sample ID:	LF - 1	Date Reported:	05-10-99
Laboratory Number:	F181	Date Sampled:	05-07-99
Chain of Custody:	6915	Date Received:	05-10-99
Sample Matrix:	Soil	Date Analyzed:	05-10-99
Preservative:	Cool	Date Extracted:	05-10-99
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
		0.0
Benzene	293	8.8
Toluene	816	8.4
Ethylbenzene	240	7.6
p,m-Xylene	1,920	10.8
o-Xylene	1,530	5.2
Total BTEX	4,800	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	97 %
	Bromofluorobenzene	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-846,

USEPA, December 1996.

**Comments:** 

Jicarilla Contract 146-19 Landfarm. 5 Pt. Composite.

Den P. Ogen

Stacy W Sendler



# EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: Sample ID: Laboratory Number: Chain of Custody: Sample Matrix: Preservative:	Blagg / AMOCO LF - 2 F182 6915 Soil Cool	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Date Extracted:	403410 05-10-99 05-07-99 05-10-99 05-10-99
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene	265	8.8	
Toluene	2,170	8.4	
Ethylbenzene	445	7.6	
p,m-Xylene	3,510	10.8	
o-Xylene	1,850	5.2	
Total BTEX	8,240		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Trifluorotoluene	100 %
	Bromofluorobenzene	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 146-19 Landfarm. 5 Pt. Composite.

Analyst P. Oglewen

Stacy W sendler.
Review

# CHAIN OF CUSTODY RECORD

Farmington, New Mexico 6740 (505) 632-0615	5796 U.S. Highway 64		EOVIDATECH IO	Relinquished by: (Signature)	(Signature)	Relinquished by (Signature)  Received to S/w/99 7:20						1F-0 5/7/99/340 F182 SOIL 1	F-1 5/1/99 1245 F181 5010 1		REP 403 410	Client No.	BLAGG/ANOCO SCAPILLA CONTRACT 146-19	Client / Project Name
Cool - Ice/Blue Ice	ay 64 Received Intact		5	Received by: (Signature)	Received by: (Signature)	Received by: (Signature)					SAL	7	2	Con TR (BO BTZ (B	ntaine 4 (15) EX (021)	)		ANALYSIS / PARAMETERS
VBlue Ice	d Intact	۲ × × × × × × × × × × × × × × × × × × ×	Sample Receipt			<u>8</u>	Date Time			COOL	SAMPLES PRESENT		PT. COMPOSITE			Hemarks		