District III 1000 Rio Brazos Rd Aztec, NM 87410

State of New Mexico

Energy, Minerals and Natural Resources Department

Submit 1 copy to Appropriate District and 1 copy to Santa Fe Office

FEB 0 8 1999

DETAILS OF THE PROPERTION OIL CONSERVATION DIVISION 2040 S. PACHECO

Santa Fe, New Mexico 87505

TANY	DV Pd	d d				Mil e		
Operator: Apache Corp	ooration \ MW Petr	roleum	_	_Telephone	:	505-325-0	318	
Address: 2855 Souths	ide River Road, S	uite A, Farm	ington, N	M 87401				
Facility or Well Name:		Jic Apach	e Tribal A1	118 #24 Pi	it #1			
Location: Unit or Qtr/Qt	tr Sec	P	Sec 25	T 26 N	R 3W	County	Rio Arriba	
Pit Type: Separator: _		_Dehydrato	r	_Other	Blow Pit			
Land Type:	licarilla Tribal							
Beginnin	g Pit Dimensions:	Length	15	' Width	15'	Depth	3'	
Pit Location: Ending (Attach diagram)	g Pit Dimensions:	Length	20	<u>'</u> Width	20'	Depth	8'	
Referen	ce:	Wellhead	XX	_Other				
Footage	from reference:		75		_			
Directio	n from reference:		145	_Degrees	X	East	North .	
						of _West	r South .	XX
Depth To Groundwate	r:			Less than	50 feet		(20 points)	
(vertical distance from				50 feet to			(10 points) (0 points)	0
contaminants to seasonal high water elevation of groundwater)				Greater tri	an 100 feet		(o points)	
Wellhead Protection A	rea:			•		Yes	(20 points)	
(Less than 200 feet from domestic water source,	•					No	(0 points)	0
1000 feet from all other								
Distance To Surface V	Vater:			Less than	200 feet		(20 points)	
(Horizontal distance to	perennial				o 1000 feet		(10 points)	
lakes, ponds, rivers, str				Greater th	nan 1000 fe	et	(0 points)	0
irrigation canals and dite	ones)			RANKING	SCORE (T	OTAL POI	NTS)	0
1								

Date Remediation Star	ted:	9/11/97		Date Comple	eted:		9/15/97
Remediation Method: (Check all appropriate		Excavation	XXX	Approx. cubi	c yards		118
sections)	Landfarmed		ХХ	Insitu Bioren	nediation _		
		Other		•••			
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility)	:	Onsite	XX	Offsite _			
General Description o	f Remedial Action:		Excavate	pit to 8' , too	k PID readi	ngs. Spre	ad soil on
location for	remediation. Took	soil samp	les.				
<u> </u>					· · · · · · · · · · · · · · · · · · ·		
Groundwater Encount	tered:	No	XX	<u>(</u> Yes		Depth_	
Final Pit: Closure Sampling:	Sample location			posite sample	taken from pit	sidewalls. C	Grab sample
(in multiple samples, attach sample results		taken from I	oit bottom ce	nter.			
and diagram of sample locations and depths)	Sample depth	8'	8 to 10" i	nto pit sidew	alls 10" inte	o pit botto	m
nocations and departs,	Sample Date Sample results		9/15/97	7	Sample Tim	e .	9:00 AM
	Benzene		(ppm)	ND			
	Total BTEX		(ppm)	ND			
	Field Headspace		(ppm)	17.46			
	TPH			Side/ND			
Groundwater Sample		Ye		Btm/ND No			ch sample results)
I HEREBY CERTIFY T KNOWLEDGE AND B		ATION ABO	VE IS TRU	E AND COM	PLETE TO	THE BEST	OF MY
DATE	December 1, 199	8	_PRINTE	NAME	Jeff Cross	<u> </u>	
SIGNATURE	A Cum		_AND TIT	LE	Project Ma	nager	

District III 1000 Rio Brazos Rd Aztec, NM 87410

State of New Mexico Energy, Minerals and Natural Resources Department

Submit 1 copy to
Appropriate District
and 1 copy to
Santa Fe Office

OIL CONSERVATION DIVISION

2040 S. PACHECO Santa Fe, New Mexico 87505

	che Corporation \ MW Petro			Telephone	<u>.</u>	505-325-03	18	
ddress: 2855	Southside River Road, Su							
acility or Well N	Name:	Jic Apache	Tribal A1	18 #24 Pit	#2		·	
ocation: Unit	or Qtr/Qtr Sec	Р	Sec 25_	T 26 N	R 3W	County	Rio Arriba	
Pit Type: Sepa	arator:	Dehydrator		Other	Separator/	Tank Drain	1	
_and Type:	Jicarilla Tribal							
	Beginning Pit Dimensions:	Length	15	Width	15'	Depth	3'	
Pit Location:	Ending Pit Dimensions:	Length	20	'_ Width	20'	. Depth	10'	
(Attach diagran	n) Reference:	Wellhead	XX	_Other				
	Footage from reference:		70		_			
	Direction from reference:		220	_Degrees		_East	North _	
					XX	_ _West	South _	X
Depth To Gro	undwater:			Less than	50 feet	<u></u>	(20 points)	
(vertical distance f				50 feet to			(10 points) _ (0 points)	
contaminants to so high water elevation groundwater)				Greater tr	an 100 feet		(o points) _	
Wellhead Pro	taction Area:			٠		Yes	(20 points)	
(Less than 200 domestic wate	O feet from a private er source, or; less than all other water sources)					No	(0 points) _	0
Distance To	Surface Water:				n 200 feet		(20 points)	
	stance to perennial				to 1000 feet han 1000 fe		(10 points) (0 points)	0
	rivers, streams, creeks, als and ditches)				G SCORE (INTS)	0

Date Remediation Start	ed:	9/15/97		Date Comple	ted:		9/15/97
Remediation Method:		Excavation	XXX	Approx. cubic	yards		148
(Check all appropriate sections)	Landfarmed		XX	Insitu Biorem	ediation		
		Other					
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)		Onsite	xx	Offsite			
General Description of	Remedial Action:		Excavate	pit to 10' , to	ok PID re	adings. Sp	read soil on
location for	remediation. Took	soil samp	les.				
Groundwater Encount	tered:	No	XX	Yes_		_ Depth	
Final Pit:	Sample location		4 point com	posite sample t	aken from	pit sidewalls.	Grab sample
Closure Sampling: (in multiple samples,		taken from	pit bottom ce	nter.			
attach sample results and diagram of sample	Sample depth	10'	8 to 10" ii	nto pit sidew	alls 10" i	nto pit botte	om
locations and depths)			9/15/9		Sample T		3:00 PM
	Sample Date Sample results		31 (313)		Campio 1		
	Benzene		(ppm)	ND			
	Total BTEX		(ppm)	ND			
	Field Headspace		(ppm)	23.34			
	TPH			Side/ND Btm/800			
Groundwater Sample		Υe	-	No		 ` •	ach sample results)
I HEREBY CERTIFY I		ATION ABO	OVE IS TRU	IE AND COM	PLETE T	O THE BES	T OF MY
DATE	December 1, 199	98	PRINTE	D NAME	Jeff Cro	oss	
SIGNATURE	116000		AND TIT	LE	Project I	Manager	
	70						

Submit 1 copy to Natural Resource Dept. and Oil & Gas Administration

Operator: <u>M</u>	/ W PE	TROLEUM			_Telephone	505-32	25-0318		
Address: 2	855 SC	OUTHSIDE RI	VER ROAD	/ SUITE A	/ FARMING	STON N.M.	87401-79)47	
Facility or Well	Name	:	JAT A118	#24 PIT	#1				·
Location: L	Jnit or (Qtr/Qtr Sec	P	SEC 25	T 26N	R3W	County	RIO ARRIBA	
Pit Type: S	Separat	or:	Dehydrato	r	_Other	BLOW PI	<u>r</u>		
Land Type: _	 	JIC. TRIBA	AL						
Pit Location:	Pit	Dimensions:	Length	n 20'	Width	20'	Dep	oth 8'	
(Attach diagrar		eference:	Wellhead	XXX	_Other				
	Fo	otage from re	ference:	<u>75'</u>		_			
	Di	rection from re	eference:	145	_Degrees	X	_East	North	
							_West	of South	XX
Depth To Gro	undwa	iter:			Less than	50 feet		(20 points)	
(vertical distance fr					50 feet to	99 feet		(10 points)	
contaminants to se	asonal				Greater th	an 100 fee	t	(0 points)	0
high water elevatior groundwater)	n of								
Distance to a	n Enhe	emeral Stream	1:		Less than	100 feet		(10 points)	
(Downgradient						an 100 fee		(0 points)	
ten feet in widt		J							
Distance to N	learest	Lake, Plava,	or Waterin	a Pond:	Less than	100 feet		(10 points)	
		playas and				nan 100 fee	t	(0 points)	0
livestock or wi									
 Wellhead Pro	staction	n Area:				Ye	:S	(20 points)	
(Less than 200						N		(0 points)	0
domestic wate			1					_	
1000 feet from		•							
Distance To S	Surface	e Water:			Less than	100 feet		(20 points)_	
(Horizontal dis					100 feet t	o 1000 fee		(10 points)	
		streams, creel	κs,		Greater th	nan 1000 fe	eet	(0 points) _	0
		ditches)							

Date Remedia	ation Start	ed: 9/11/	/97	Date Compl	leted:		9/15/97	
Remediation l		Excavation	on XXX	Approx. cub	oic yards		118	
(Check all app sections)	ropriate	Landfarm	ned XX	Insitu Biore	mediation	<u>.</u>		
		Other				·		
Remediation (i.e. landfarme name and loca	ed onsite,	On:	site XX	Offsite _				
offsite facility)								į
General Desc	ription of:	Remedial Action:	Excavate pit	t to 8',took F	PID readings.	spread	soil on	
<u>-</u>	location fo	or remidiation. To	ok soil samp	oles.				
Groundwater	Encounte	ered:	No xxx	Yes		Depth		,
				<u></u>				,
Final Pit: Closure Sam	oling:	Sample location	4 point c	omposite take	n from pit sid	ewalls, G	irab sample	from pit
(in multiple sa	amples,	bottom	center.	8" to 10" in	to pit side wal	ls ,10" in	to pit botton	<u>n.</u>
attach sample and diagram o	of sample	Sample depth	8'					•
	depths) Sample Da Sample re		9/15/9	97	Sample Time	;	9:00AM	
	Soil:	Benzene	(ppm)	ND	Water: B	enzene	(ppb)	NA
		Total BTEX	(ppm)	ND	T	oluene	(ppb)	NA
		Field Headspace	(ppm)	17.46	Ethylb	enzene	(ppb)	NA
		TPH	(ppm)	SIDE/ND	Total	Xylenes	(ppb)	NA
Groundwate	r Sample:		Yes	BTM\ND No	XXX(l	f yes atta	ach sample	results)
		HAT THE INFORMA	ATION ABOV	/E IS TRUE A	ND COMPLE	TE TO T	THE BEST	OF MY
KNOWLEDG								
DATE	<u>9-</u>	-14-98 eff los	PRINTE	D NAME	J	EFF CR	oss	
SIGNATURE	:	eff los	AND TI	TLE	P	ROJECT	T MANAGE	R
AFTER REVI	IEW OF TH	HE PIT CLOSURE THE TRIBE PIT CLO	INFORMATION OSURE ORD	ON, PIT CLOS	SURE IS APP	ROVED	IN ACCOR	DANCE TO
APPROVED:	: YES	s_ <u>X</u>	NO	(REASON)			
		,	Pa					
SIGNED: <	Let	= CMa		DATE:	11-13	-98	<u>`</u>	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

Submit 1 copy to
Natural Resource Dept.
and Oil & Gas Administration

Operator: <u>N</u>	M W PETROLEUM			_Telephone	505-32	25-0318		
Address: 2	2855 SOUTHSIDE F	IVER ROAD	/ SUITE A	/FARMING	STON N.M.	87401-79	47	
Facility or Well	l Name:	JAT A118	# 24 PIT	# 2				
Location: L	Unit or Qtr/Qtr Sec	Р	SEC 25	T 26N	R3W	County	RIO ARRIBA	
Pit Type: S	Separator:	Dehydrato	Γ	_Other	SEPERAT	OR\TANK	DRAIN	
Land Type: _	JIC. TRIE	BAL						
Pit Location: (Attach diagrar	-	-		Width	20'	_ Dept	h <u>10'</u>	
	Reference: Footage from r	Wellhead eference:	70'	_Other				
	Direction from		220	_Degrees		_East	North _	
					XX	_West	of South	X
Depth To Gro	oundwater:			Less than	50 feet		(20 points)	
(vertical distance fr				50 feet to	99 feet		(10 points)	
contaminants to sea high water elevation groundwater)				Greater th	an 100 feet	t	(0 points) _	0
Dietance to a	n Ephemeral Strea	m·		Less than	100 feet		(10 points)	
	t dry wash greater th				an 100 feet	t	(0 points)	
Distance to N	learest Lake, Playa	or Watering	a Pond:	Less than	100 feet		(10 points)	
(Downgradient			_		an 100 feet	t	(0 points)	0
Wellhead Pro	staction Area:				Yes	s	(20 points)	
1	nection Area. O feet from a private				No.		(0 points)	0
domestic wate	er source, or less than all other water sou	n					· · · / <u>-</u>	
Distance To S	Surface Water:			Less than	100 feet		(20 points)	
	stance to perennial				1000 feet		(10 points)	
	rivers, streams, cree	eks,		Greater th	an 1000 fe	et	(0 points)	0
irrigation cana	als and ditches)			RANKING	SCORE (TOTAL PO	DINTS)	0

						1
Date Remediation Starte	ed: 9/15/9	97	Date Comple	eted:	9/15/97	
Remediation Method:	Excavation	xxx	_Approx. cubi	c yards	148	
(Check all appropriate sections)	Landfarme	d <u>XX</u>	_Insitu Bioren	nediation		
	Other					
Remediation Location:	Ons	ite XX	_Offsite _			
(i.e. landfarmed onsite, name and location of offsite facility)						
General Description of	Remedial Action: 8	Excavate pit	to 10 ',took F	PID readings. spread	soil on	
location for	or remidiation. Too	k soil sampl	es.			
Groundwater Encounte	ered:	No xxx	_ Yes_	Depth		
Final Pit:	Sample location	4 point co	mposite take	n from pit sidewalls, G	rab sample	from pit
Closure Sampling: (in multiple samples,	bottom	center.	8" to 10" int	o pit side walls ,10" in	to pit bottom	
attach sample results and diagram of sample	Sample depth	10'				1 1
locations and depths) Sample D Sample re		9/15/9	7	Sample Time	3:00PM	
Soil:	Benzene	(ppm)	ND	Water: Benzene	(ppb)	NA NA
	Total BTEX	(ppm)	ND_	Toluene	(ppb)	NA
	Field Headspace	(ppm)	23.34	Ethylbenzene	(ppb)	NA
	TPH	(ppm)	SIDE\ND BTM\800	Total Xylenes	(ppb)	NA
Groundwater Sample:	,	Yes		XXX (If yes atta	ach sample r	esults)
I HEREBY CERTIFY T		ATION ABOV	E IS TRUE A	ND COMPLETE TO	THE BEST (OF MY
DATE 9	-14 -98	PRINTE	D NAME	JEFF CR	oss	
DATE 9	<i>U</i> .					
AFTER REVIEW OF T	HE PIT CLOSURE I CHE TRIBE PIT CLO	NFORMATIONSURE ORD	ON, PIT CLOS INANCE.	SURE IS APPROVED	IN ACCOR	DANCE TO
APPROVED: YE	s_ <u></u>	NO	(REASON)		
SIGNED:	C711a-		DATE:	11-13-98		

M W PETROLEUM/FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

NE Corner

SW Corner

SE Corner

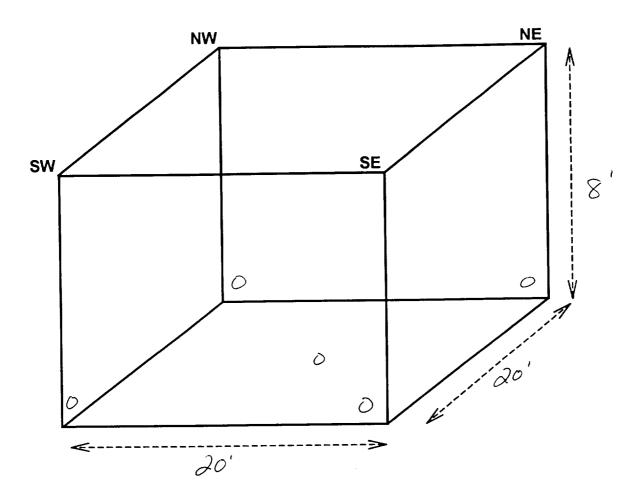
D

Jicarilla Apache Tribal EPO/OCD/BLM Review and Approval LOCATION JAT A118 # 24 OCD-BLM EPO Representative 2 PIT COUNT Date of Review FINISH: PIT # 1 9/15/97 PIT # 1 9/11/97 START: PIT # 2 9/15/ 97 PIT# 2 9/15/97 DIMENSIONS **CU YDS** D W D W 8' 118 20' 20' 15' 3' Pit 1 15' Pit 1 10' 148 20' 20' 18' 18' 3' Pit 2 Pit 2 Pit 3 Pit 3 Pit 2 @ 10' Pit 3 @ Pit 1 @ 8 Pit 3 @ Pit 2 @ 10' Pit 1 @ 8 4.7 Center 20.3 20.3 4.7 Center **NW** Corner 9.7 32.8 P 32.8 Ρ **NW Corner** 9.7 40.7 35.2 **NE** Corner 35.2 40.7 NE Corner 25.8 SW Corner 17.8 D 25.8 SW Corner 17.8 12.7 4.3 SE Corner 12.7 SE Corner 4.3 NOTES: 9/11/97 START EXCAVATION ON PIT # 1,NO STAINING OR ODOR 9/15/97 FINISH EXCAVATION ON PIT # 1, PID READINGS GOOD 9/15/97 START ECAVATION ON PIT # 2 , NO STAINING OR ODOR. 9/15/97 FINISH EXCAVATION ON PIT # 2, PID READINGS GOOD. SAMP DATE PER LAB Assaigai ANALYSIS RESULTS Pit 1 @ 8 Pit 2 @ 10' Pit 3 @ WITNESS DATE PIT TPH **BETEX** Center 20.3 4.7 SIDE\BTM SIDE\BTM NO 32.8 NW Corner 9.7 **ND/ND** J.C. 9/24/97 **NDND** NE Corner 35.2 40.7 1 **ND\ND** J.C. 9/24/97 ND\800 25.8 SW Corner 17.8 O 3 SE Corner 4.3 12.7 **RE-SAMPLE** ANALYSIS RESULTS PER LAB Pit 3 @ DATE: Pit 1 @ Pit 2 @ WITNESS DATE **BETEX** PIT **TPH** Center SIDE\BTM SIDE\BTM NO Þ NW Corner 1 NE Corner ŧ SW Corner 2 D 3 SE Corner **RE-SAMPLE** PER LAB Pit 3 @ ANALYSIS RESULTS DATE: Pit 1 @ Pit 2 @ **WITNESS** DATE **BETEX** TPH PIT Center NO SIDE\BTM SIDE\BTM NW Corner Р

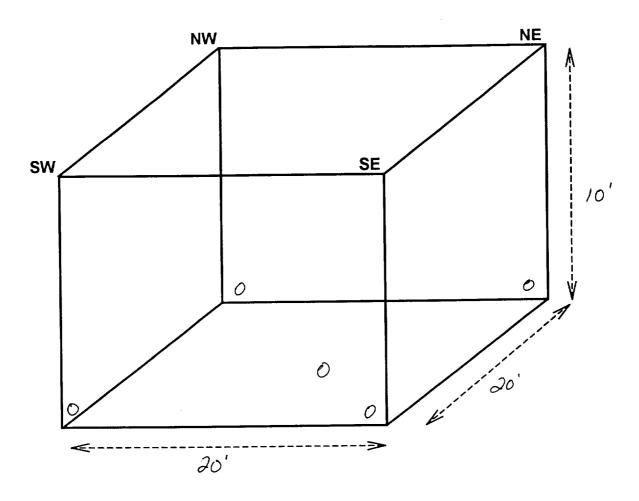
1

2

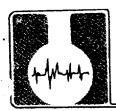
3



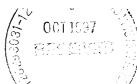
					= SA	AMPLE AREA
WELL NAM	ΛE	JAT A118 # 24	PIT#1			
SAMPLE D	ATE	9/15/97				
NOTES	4 POIN	NT COMPOSITE	SAMPLE TAK	(EN 8" TO 10" II	NTO PIT	
	SIDE	WALL				
	1 POI	NT GRAB SAMP	LE TAKEN 10	" TO 12" INTO	BOTTOM CEI	NTER
				····		



					= SAMPLE ARE	A
WELL NAN	ЛE	JAT A118 # 24	PIT#2			
SAMPLE D	ATE	9/15/97				
NOTES		IT COMPOSITE	SAMPLE TAK	EN 8" TO 10" I	NTO PIT	
			LE TAKEN 10	" TO 12" INTO I	BOTTOM CENTER	
	E DATE 4 POII SIDE					



ASSAIGAI ANALYTICAL LABORATORIES, INC.



7300 Jefferson, N.E. • Albuquerque, New Mexico 87109 • (505) 345-8964 • FAX (505) 345-7259

3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820

Report Generated: October 2, 1997 14:01

CERTIFICATE OF ANALYSIS **RESULTS BY SAMPLE**

SENT APACHE CORPORATION

WORKORDER #

: 9709176

TO: 2855 SOUTHSIDE RIVER RD STE AWORK ID

: JICARILLA PIT CLOSURES

FARMINGTON, NM 87401-7947

CLIENT CODE

: APA01

DATE RECEIVED : 09/19/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9709176-01A

Sample ID: A118 #24 PIT #1 SIDES

Collected: 09/15/97 09:00:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT I	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A Benzene Toluene Ethylbenzene P-&m-Xylene O-Xylene	ND ND ND ND ND	mg/kg mg/kg mg/kg mg/kg mg/kg	0.0050 0.0050 0.010	100 100 100 100 100	09/24/97 09/24/97 09/24/97 09/24/97 09/24/97	SVUST007 SVUST007 SVUST007 SVUST007 SVUST007

Lab ID: 9709176-01B

Sample ID: A118 #24 PIT #1 SIDES

Collected: 09/15/97 09:00:00

Matrix: SOIL

<u> </u>							
TEST / METHOD	RESULT	UNITS	LIMIT I	D_F	DATE ANAL	BATCH_ID	
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	ND	mg/Kg	25 2	25	09/23/97	SDRO054	

Lab ID: 9709176-02A

Sample ID: A118 #24 PIT #1 BOTTOM

Collected: 09/15/97 09:30:00

Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A Benzene Toluene Ethylbenzene P-&m-Xylene O-Xylene	ND	mg/kg	0.0050	100	09/24/97	SVUST007
	ND	mg/kg	0.0050	100	09/24/97	SVUST007
	ND	mg/kg	0.0050	100	09/24/97	SVUST007
	ND	mg/kg	0.010	100	09/24/97	SVUST007
	ND	mg/kg	0.0050	100	09/24/97	SVUST007



... .o ID: 9709176-02B
Sample ID: A118 #24 PIT #1 BOTTOM

Collected: 09/15/97 09:30:00

Sample ID: A118 #24 PIT #	1 BOTTOM	Matrix: SC)IL		·	
rest / Method	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	ND	mg/Kg	25	25	09/23/97	SDRO054
Lab ID: 9709176-03A Sample ID: A118 #24 PIT #	2 SIDES	Collected: Matrix: SO		7 15	:00:00	
rest / method	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A Benzene Toluene Ethylbenzene P-&m-Xylene O-Xylene	ND ND ND ND ND	mg/kg mg/kg mg/kg mg/kg mg/kg	0.0050 0.0050 0.0050 0.010 0.0050	100 100 100 100 100	09/24/97 09/24/97 09/24/97 09/24/97 09/24/97	SVUST007 SVUST007 SVUST007 SVUST007 SVUST007
Lab ID: 9709176-03B Sample ID: A118 #24 PIT ‡	‡2 SIDES	Collected: Matrix: So		7 15	:00:00	
3T / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	ND	mg/Kg	25	25	09/23/97	SDRO054
Lab ID: 9709176-04A Sample ID: A118 #24 PIT #	‡2 BOTTOM	Collected: Matrix: So		97 15	:30:00	
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A Benzene Toluene Ethylbenzene P-&m-Xylene O-Xylene	ND ND ND ND ND	mg/kg mg/kg mg/kg mg/kg mg/kg	0.0050 0.0050 0.0050 0.010 0.0050	100 100 100 100 100	09/24/97 09/24/97 09/24/97 09/24/97 09/24/97	SVUST007 SVUST007 SVUST007 SVUST007 SVUST007
Lab ID: 9709176-04B Sample ID: A118 #24 PIT :	#2 BOTTOM	Collected: Matrix: S	09/19/ OIL	97 15	5:30:00	
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 ssel Range OG in Soil	800	mg/Kg	25	25	09/23/97	SDRO054

William P. Biava President

WORKORDER COMMENTS

: 10/02/97 DATE

WORKORDER:

DEFINITIONS/DATA QUALIFIERS

The following are definitions, abbreviations, and data qualifiers which may have been utilized in your report:

ND = Analyte "not detected" in analysis at the sample specific detection limit.

D F = Sample "dilution factor"

 $\overline{\mathrm{N}}\mathrm{T}$ = Analyte "not tested" per client request.

B = Analyte was also detected in laboratory method QC blank.

E = Analyte concentration (result) is an estimated value or

exceeds analysis calibration range.

LIMIT = The minimum amount of the analyte that AAL can detect utilizing the specified analysis.

Please Note: Multiply the "Limit" value (AAL's Detection Limit) by Dilution Factor (D F) to obtain the sample specific Detection Limit.

REPORT COMMENTS

Chain of Cust 3y Record

Page

Project Manager / Contact __Jeff__Cross_

Client Apache Corporation

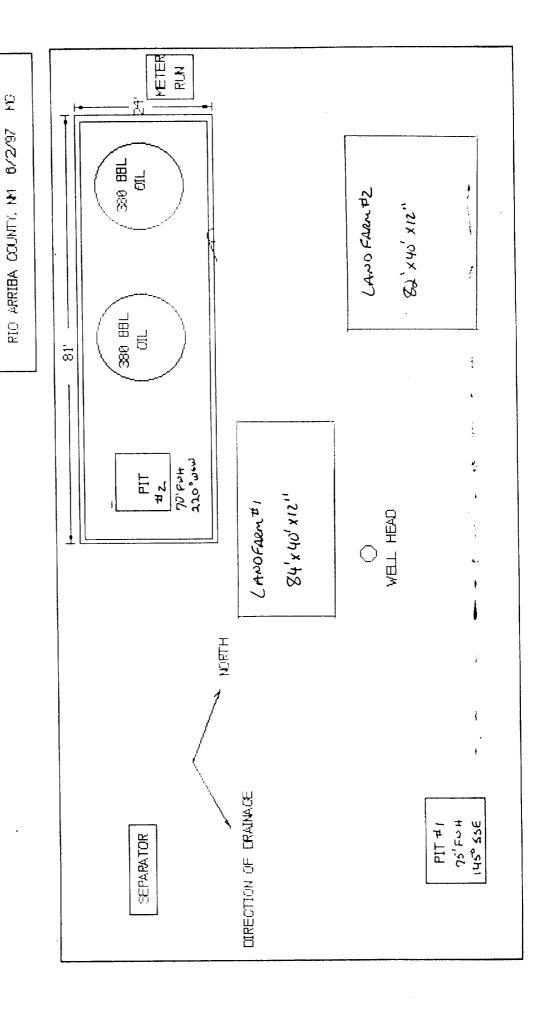
ALBUQUEROUE, NEW MEXICO 877 (505) 345-8964

1910 N. BIG SPRING MIDLAND, TEXAS 79705 (915) 570-1116

3332 WEDGEWOOD EL PASO, TEXAS 79925 (915) 593-6000

MELOUIADES ALANIS 6411 LOCAL UNO CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Address 304	4 N. Behrend				elephon	Telephone No. (505)	774-6643	643	1	/		Analysis Hequired	Deumbe			
City / State / 2	City/State/ZipEarmington, NM 87401	87401		L.	ax No.	Fax No. (505) 774-6624	5624		1	<u></u>	300	<u> </u>	_	<u></u>	r* + j^*	
Project Name	Project Name/NumberJICARILLA PIT CLOSURES Samplers:	PIT CL	SUR	5.5.3	amplers	: (Signature)	L. L.	Male	<u> </u>	\$10 U/\$1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			<u></u>	Remarks	
Contract / Pur	Contract / Purchase Order / Quote				•	<u> </u>			0,	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\					
*	170		-		4		-	Preservation	* \ \ \	777	_	<u></u>				
FRACTION	Sample Number / Location	Deta	-	Time	Туре	Type / Size of Container	٤	Temp. Chemical	7	>			1			T
14	A115 #24 P. 1 # 5.20		9-15-919:00 55-1	\ \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	-,	40201252		77.68	1,1							Т
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Refinquished by:	More of Done	9	Received by:	<i>\</i> /\	1/3	C	Relinquished by:	\wedge			* 6/	19 Sept - G Signature		ask [Cidal Rubio	
12	6	2/16/16	Printed		196	II Preser	Printed	ν,	COTT	Drath	Tae	Ę.	Printed	* //		
Company		\ : :	Company	, y	₫	₩	Company		MAR		h/ -	14:30 0	Сотрапу	7 7 7	ا	1
Reason		11.42	Reason				Reason					Rea	Reason			T
											After an	After analysis, samples are to be:	are to be:			
Method of Shipment			Comments:	冀								Disposed	Disposed of (additional fee)	<u>:</u>		
Shipment No.												Stored (30	Stored (30 days max)			
Special Instructions:	1,0											Stored ove	er 30 days (ac	Stored over 30 days (additional fee)		
												☐ Returned t	Returned to customer			



SECTION 25, TOWNEHIP 26N, RANGE 3W

SE/4 SE/4 (P) L0039 #JAT A118

JICARILLA APACHE TRIBAL 118-24

M W RETROLDIM

-Wind

Agri Edwyr o

Submit 1 copy to Natural Resource Dept. and Oil & Gas Administration

ON-SITE SOIL REMEDIATION REPORT

Operator:	M W PETF	ROLUEM			Telephone)	505-325-0	318	
Address:		2855 SOUTHS	IDE RIV	VER ROAD	/SUITE A	FARMING]	<u>ron, n.m. 8</u>	B7401-7947	
Facility or W	ell Name:	JAT	A118#	24 CELL	# 1	····			
Location:	Unit or Qtr	/Qtr Sec	Р	SEC 25	T 26N	R 3W	_County	RIO ARRI	ВА
Land Type		JIC. TRIBAL			<u>-</u> '				
Date Remed	iation Starte	ed: 9/	11/97		Date Com	ipleted:		8/18/98	
Remediation	Method:	Landfarmed		XXX	_Approx. c	ubic yards		134	
		Composted			-				
		Other			REMEDIA	ATED SOIL	TO BE PU	T BACK IN I	PIT.
Depth to Gro	oundwater:		(pts)	0		Final Clo	sure Samp	ling	
Distance to a	an Ephemer	al Stream:	(pts)	0	Sampling	Date:	8/18/98	_Time:	10:15AM
Distance to l or Watering		e, Playa,	(pts)	00	Sample F		-		
Wellhead Pr	rotection Are	a:	(pts)	0	Field Heads	pace (ppm) (ppm	0 n) ND	– Method	M8015
Distance To	Surface Wa	ater:	(pts)	0				_ 20A (NC	
RANKING S	CORE (TO	TAL POINTS)		0		DILX (C	211040,00		
	CERTIFY TH GE AND BE	AT THE INFOR	RMATIC	ON ABOVE	IS TRUE A	AND COMP	LETE TO T	HE BEST (OF MY
DATE:		9/14/98		_PRINTED	NAME		JEFF CF	ROSS	
SIGNATUR	E	flon		TITLE		PROJEC	T MANAGI	ER	
		HE SOIL REME E JICARILLA A						N IS APPRO	OVED IN
APPROVED): YES	s_ <u>></u>	NC)	_(REASO	N)		· ///	_
SIGNED:	Kee	-Chla-	<u>J</u>	_DATE:	<u>use</u> 11-	as B	aeky. 8	<i></i>	-

Submit 1 copy to Natural Resource Dept. and Oil & Gas Administration

ON-SITE SOIL REMEDIATION REPORT

Operator:	M W PETF	ROLUEM		<u> </u>	Telephone)	505-325-0)318	
Address:		2855 SOUTHS	SIDE RIV	/ER ROAD	/SUITE A/	FARMING	TON, N.M.	87401-7947	<u></u>
Facility or W	'ell Name:	JA	T A118#	24 CELL	# 2				
Location:	Unit or Qtr	/Qtr Sec	Р	SEC 25	T 26N	R 3W	County	RIO ARRI	ВА
Land Type	<u></u>	JIC. TRIBAL							
Date Remed	liation Starte	e <u>d:</u> 9	/15/97		_Date Com	pleted:		8/18/98	
Remediation	Method:	Landfarmed		XXX	_Approx. c	ubic yards		132	
		Composted			_				
		Other			REMEDIA	ATED SOIL	TO BE PU	T BACK IN	PIT.
Depth to Gr	oundwater:	<u>.</u>	(pts)	0		Final Clo	sure Sam	pling	
Distance to	an Ephemei	ral Stream:	(pts)	0	Sampling	Date:	8/18/98	Time:	10:30AM
Distance to or Watering		e, Playa,	(pts)	0	Sample F		0		
Wellhead P	rotection Are	ea:	(pts)	0	Field Heads TPH	pace (ppm)	0 n) ND		M8015
Distance To	Surface W	ater:	(pts)	0)20A (NE	
RANKING :	SCORE (TO	TAL POINTS)		0	- Othe	BIEX IX	344040,00	720A (14L	
li de la companya de	CERTIFY TI GE AND BE	HAT THE INFO	RMATIC	ON ABOVE	IS TRUE /	AND COMP	LETE TO	THE BEST (OF MY
DATE:		9/14/98		_PRINTED	NAME		JEFF C	ROSS	
SIGNATUR	RE	floor		TITLE		PROJEC	T MANAG	SER	
AFTER RE ACCORDA	VIEW OF TH	<i>V V</i> HE SOIL REME IE JICARILLA <i>A</i>	DIATIO	N INFORM	IATION. C	N-SITE RE	MEDIATIONCE.	N IS APPR	OVED IN
APPROVE	D: YE	s_ <u>X</u>							_
SIGNED:	Li	-CMa		_DATE:	11	as B	sce Ky	/w/	

M W PETROLEUM/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE		JAT A118 # 24		-	
* AMOUNT OF SOIL UNDER	RGOING	REMEDIATION	266	Yds.	
			SampDATE	TPH	BTEX
CELL No1			8/18/98	ND	ND
DIMENSIONS(LxWxH)	84' X <u>40'</u>	X 12"			
CELL LOCATION (dir. from well h	ead	WEST			
* DATE BEGAN: 9/11/97					
DATE TERMINATED (TPH <5,00	0 ppm/BTE	EX< 50 ppm/Benzene < 10 ppm)	8/18/98	3	•
			SampDATE	TPH	BTEX
CELL No. 2			8/18/98	ND	ND
	•				
DIMENSIONS(LxWxH)	82' X 40'	X 12"		<u> </u>	
		NORTH			
CELL LOCATION (dir. from well h	nead	NORTH			
* DATE BEGAN: 9/15/97					
DATE TERMINATED (TPH <5,00		= EX< 50 ppm/Benzene < 10 ppm)	8/18/9	8	_
			SampDATE	TPH	BTEX
CELL No3	_		Samporte		
DIMENSIONS(LxWxH)					
CELL LOCATION (dir. from well	head				
* DATE BEGAN:		_			
DATE TERMINATED (TPH <5,00	00 ppm/BT	EX< 50 ppm/Benzene < 10 ppm)			-
REMEDIATION RECORD: (Date	, Treatmer	nt, Tilling)			
9/23/97 TREAT SOIL CELLS WI	YH 46-0-0	FERTILIZER, WATER, PLOW AN	D TILL.		-
4/22/98 PLOWED SOIL CELLS.					
4/24/98 TILL SOIL CELLS.				ii. OEU O	
5/19/98 PLOWED SOIL CELLS.		8/4/98 WATER,PLO	W AND TILL SC	OL CELLS.	
5/20/98 TILL SOIL CELLS.		8/17/98 PLOW AND	TILL SOIL CELI	.S.	
6/12/98 WATER,PLOW AND TIL	L SOIL C	ELLS.			
7/18/98 PLOW SOIL CELLS.					
7/23/98 TILL SOIL CELLS.					

From excavation reports.

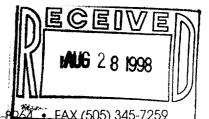
= SAMPLE AREA 8 point composite sample ALL SAMPLES TAKEN 10" TO 12" INTO CELL. Alloty Celltz 82, x40, X12" 85-81-8 SAMPLE DATE: DIMENSIONS: WELL NAME: NOTES:

= SAMPLE AREA 861 A ALL SAMPLES TAKEN 10" TO 12" INTO CELL. 8 point composite sample All8#24 Cell#1 84' x43 x12" 85-81-8 SAMPLE DATE: DIMENSIONS: WELL NAME: NOTES:

1.17



ASSAIGAI ANALYTICAL LABORATORIES, INC.



7300 Jefferson, NE • Albuquerque, New Mexico 87109 • (505) 345-8054 • FAX (505) 345-7259

3332 Wedgewood, E-5 • El Paso, Texas 79925 • (915) 593-6000 • FAX (915) 593-7820 127 Eastgate Drive, 212-C • Los Alamos, New Mexico 87544 • (505) 662-2558

APACHE CORPORATION attn: JEFF CROSS 2855 SOUTHSIDE RIVER RD STE A **FARMINGTON, NM 87401-7947**

	* explanation of codes
3	analyte detected in Method Blank
	result is estimated
4	analyzed out of hold time
V	tentatively identified compound
S	subcontracted
-9	see footnote

Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client:

APACHE CORPORATION

Project: 9808193

JICARILLA PIT CLOSURES

William P. Biava: President of Assaigai Analytical Laboratories, In

Client Sample ID	A118 #2	4 CEL	L #1	Sai Ma	mple SOIL trix				Sample Collected	08/18/98 10:15:00
	00.0	CAC#		Result	Units	Dilution Factor	Detection Limit	*	Sequence	Run Date
<u>Fraction</u>	QC Group	CAS#				<u> </u>				
			Test: SW846 8015A/8020A GRO				.,			
9808193-01A	X98392	71-43-2	Benzene	ND	mg / Kg	50	0.005		XG.1998.704-20	08/21/98
	X98392	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005		XG.1998.704-20	
	X98392	95-47-6	o-Xylene	ND	mg / Kg	50	0.005		XG.1998.704-20	
	X98392		p/m Xylenes	ND	mg / Kg	50	0.01	Ĺ	XG.1998.704-20	
	X98392	108-88-3	Toluene	ND	mg/Kg	50	0.005		XG.1998.704-20	
		1	Test: SW846 8015A Diesel Rang	ge Organics by GC	/FID					
9808193-01B	X98391	1	Diesel Range Organics	ND	mg / Kg	25	25		XG.1998.700-5	08/22/98
Client Sample ID	A118 #2	24 CEL	.L #2		ample SOIL	-			Sample Collected	08/18/98 10:30:00
						Dilution	Detection			Run
Fraction	QC Group	CAS#		Result	<u>Units</u>	<u>Factor</u>	<u>Limit</u>	*	Sequence	Date
			Test: SW846 8015A/8020A GRC) / Purgeable Arom	atics					
9808193-02A	X98392	71-43-2	Benzene	ND	mg / Kg	50	0.005	!	XG.1998.704-17	08/21/98
	X98392	100-41-4	Ethylbenzene	ND	mg / Kg	50	0.005		XG.1998.704-17	
	X98392	95-47-6	o-Xylene	ND	mg / Kg	50	0.005		XG.1998.704-17	
	X98392		p/m Xylenes	ND	mg / Kg	50	0.01		XG.1998.704-17	
	X98392	108-88-3	Toluene	ND	mg / Kg	50	0.005		XG.1998.704-17	
		·	Test: SW846 8015A Diesel Ran	ge Organics by GO	C/FID					
9808193-02B	X98391		Diesel Range Organics	ND	mg / Kg	25	25		XG.1998.700-6	08/22/98
							Des	ort Dr	-A- 0/0E/09 (3.47.32 AM





Client Reports

2.0

Report Date

8/25/98 8:47:32 AM



Assaigai Analytical Laboratories, Inc.

Certificate of Analysis

Client: APACHE CORPORATION

Project: 9808193 JICARILLA PIT CLOSURES

 Page 2 of 2
 Client Reports
 2.0
 Report Date
 8/25/98 8:47:32 AM

^{***} Sample specific analytical Detection Limit is determined by multiplying the sample Dilution Factor by the listed method Detection Limit. ***

*** Results relate only to the items tested. ***

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	Tarris (
	AZ
٠	
Į	

ent Apache Corporation

Project Manager / Contact <u>Jeff-Cross</u>

7

Chain of Custody Record

B193

3332 WEDGEWOOD ALBUQUERUUE, NEW MEXICO 87109 (505) 345-8964

1910 N. BIG SPRING MIDLAND, TEXAS 7970S (915) 570-1116

MELOUIADES ALANIS	EL PASO, TEXAS 79925 (915) 593-6000
ALANIS	MIDLAND, 1 (915) 5

6411 LOCAL UNO . CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Returned to customer		
Stored over 30 days (additional fee)		hstructions:
Stored (30 days max)		R YO
Disposed of (additional fee)	Comments:	of Shipment
After analysis, same		
- (#5)	Reason DRI WROLD Reason ANALYSIS	
· · · · · · · · · · · · · · · · · · ·	MA Company A	Apache Corp.
	Sun. P. DIDGE Printed Win	JEFT Coss
Q. Braise 8/30 /5th Signature Con 19	A. HIDAR Signature LOTT	10/15/50 must
		Data
*	10:30	8
×	-	2A A118#24 Cell #2
*	Hoz Glass	0
X	10:15 Soil 402 91ASS	A118#24 ce 11 #1 8-18-98
B Q	Time Sample Type / Size of Container Temp. Chemical	Field Circums Faid Location Date USES
10.01/XX		ract / Purchase Order / Quote
Tonie in ere	SURES Samplers: (Signature) Hell Cor	ct Name / Number JICARILLA PIT CLOSURES
1 28	1947 Fax No. (505) 774-6624	state/zpEarmington, NM 87401-7947
Analysis Required	E. 4 Telephone No. (505) 774-6643	ress 2855 South SIDE RIVER PLD. STE. A