

Donny S. Felt
600 Rio Brazos Rd
Aztec, NM 87401
DEPUTY OIL & GAS INSPECTOR
APR 11 1998

State of New Mexico
Energy, Minerals and Natural Resources Department
OIL CONSERVATION DIVISION
2040 S. PACHECO
Santa Fe, New Mexico 87505

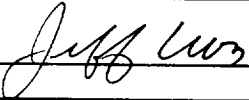
Submit 1 copy to
Appropriate District
and 1 copy to
Santa Fe Office

PIT REMEDIATION AND CLOSURE REPORT

Approved

Operator: <u>Apache Corporation</u>		Telephone: <u>505-325-0318</u>	
Address: <u>2855 Southside River Road, Suite A, Farmington, NM 87401</u>			
Facility or Well Name:		<u>Apache # 106</u>	
Location: Unit or Qtr/Qtr Sec		<u>A Sec 1 T 24 N R 4W</u> County <u>Rio Arriba</u>	
Pit Type: Separator: _____		Dehydrator: _____ Other: <u>TANK DRAIN (Blow Pit)</u>	
Land Type: _____		<u>Jicarilla Tribal</u>	
BEGINNING DIMENSIONS			
Pit Location: <u>END</u> Pit Dimensions:		Length <u>27'</u> Width <u>24'</u> Depth <u>8.5'</u>	
(Attach diagram)			
Reference:		Wellhead <u>X</u> Other: _____	
Footage from reference:		<u>50'</u>	
Direction from reference:		<u>285</u> Degrees <u>XX</u> East of South <u>X</u>	
Depth To Groundwater:		Less than 50 feet (20 points) _____	
(vertical distance from		50 feet to 99 feet (10 points) _____	
contaminants to seasonal		Greater than 100 feet (0 points) <u>0</u>	
high water elevation of			
groundwater)			
Wellhead Protection Area:		Yes (20 points) _____	
(Less than 200 feet from a private		No (0 points) <u>0</u>	
domestic water source, or; less than			
1000 feet from all other water sources)			
Distance To Surface Water:		Less than 200 feet (20 points) _____	
(Horizontal distance to perennial		200 feet to 1000 feet (10 points) _____	
lakes, ponds, rivers, streams, creeks,		Greater than 1000 feet (0 points) <u>0</u>	
irrigation canals and ditches)			
RANKING SCORE (TOTAL POINTS)		<u>0</u>	

RECEIVED
DEC 10 1997
OIL CON. DIV.
DIST. 3

Date Remediation Started:		<u>8/29/95</u>	Date Completed:		<u>8/14/97</u>
Remediation Method: (Check all appropriate sections)		Excavatio	<u>XXX</u>	Approx. cubic yards	<u>204</u>
		Landfarmed	<u>XX</u>	Insitu Bioremediation	
		Other			
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)		Onsite	<u>XX</u>	Offsite	
General Description of Remedial Action:		<u>Excavate pit to 8.5', took PID readings.</u>			
		<u>Spread soil on location for remediation. Took soil samples.</u>			
Groundwater Encountered:		No	<u>X</u>	Yes	Depth <u> </u>
Final Pit:	Sample location	<u>5 point composite taken from pit sidewalls and pit bottom center</u>			
Closure Sampling: (in multiple samples, attach sample results and diagram of sample locations and depths)	Sample depth	<u>8 to 10" into pit sidewalls 10" into pit bottom</u>			
	Sample Date	<u>9/15/95</u>	Sample Time	<u>2:35 P.M.</u>	
	Sample results				
	Benzene	(ppm)	<u>ND</u>		
	Total BTEX	(ppm)	<u>0.4</u>		
	Field Headspace	(ppm)	<u>23.9</u>		
	TPH		<u>3100</u>		
Groundwater Sample:		Yes		No	<u>X</u> (If yes attach sample results)
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.					
DATE		<u>November 5, 1997</u>		PRINTED NAME	
				<u>Jeff Cross</u>	
SIGNATURE		<u></u>		AND TITLE	
				<u>Project Manager</u>	

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

Operator: <u>APACHE CORPORATION</u>		Telephone <u>505-325-0318</u>	
Address: <u>304 N. BEHREND, FARMINGTON, N.M. 84701</u>			
Facility or Well Name: <u>APACHE # 106</u>			
Location:	Unit or Qtr/Qtr	Sec	T 24N R 4W County <u>RIO ARRIBA</u>
Pit Type:	Separator: _____	Dehydrator _____	Other <u>TANK DRAIN (BLOW PIT)</u>
Land Type: <u>JIC. TRIBAL</u>			

Pit Location: (Attach diagram)	Pit Dimensions:	Length <u>27'</u>	Width <u>24'</u>	Depth <u>8.5'</u>
	Reference:	Wellhead <u>XXX</u>	Other _____	
	Footage from reference:	<u>50'</u>		
	Direction from reference:	<u>285</u> Degrees	_____ East _____ West	North of South
				<u>X</u>

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>0</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>0</u>
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)	<u>0</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>0</u>
Distance To Surface Water: (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)	<u>0</u>
RANKING SCORE (TOTAL POINTS)			<u>0</u>

Date Remediation Started:		8/29/95		Date Completed:							
Remediation Method: (Check all appropriate sections)		Excavation		XXX		Approx. cubic yards		204			
		Landfarmed		XX		Insitu Bioremediation					
		Other									
Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)		Onsite		XX		Offsite					
General Description of Remedial Action: Excavate pit to 8.5',took PID readings. spread soil on location for remediation. Took soil samples.											
Groundwater Encountered:		No		XXX		Yes		Depth			
Final Pit:		Sample location 5 point composite taken from pit sidewalls and pit bottom center.									
Closure Sampling: (in multiple samples, attach sample results and diagram of sample locations and depths)		Sample depth 8" to 10" into pit side walls ,10" into pit bottom.									
		Sample Date 9/15/95				Sample Time 2:35 Am.					
		Sample results									
Soil:		Benzene		(ppm)		ND		Water: Benzene (ppb)		NA	
		Total BTEX		(ppm)		0.4		Toluene (ppb)		NA	
		Field Headspace		(ppm)		23.9		Ethylbenzene (ppb)		NA	
		TPH		(ppm)		3100		Total Xylenes (ppb)		NA	
Groundwater Sample:		Yes				No		XXX		(If yes attach sample results)	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.											
DATE		8-22-97		PRINTED NAME		JEFF CROSS					
SIGNATURE		Jeff Cross		AND TITLE		PROJECT MANAGER					
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.											
APPROVED:		YES		X		NO		(REASON)			
SIGNED:		Kew C Maull		DATE:		9-30-97					

//// = spread Area

NORTH

GENERAL DRAINAGE

APACHE

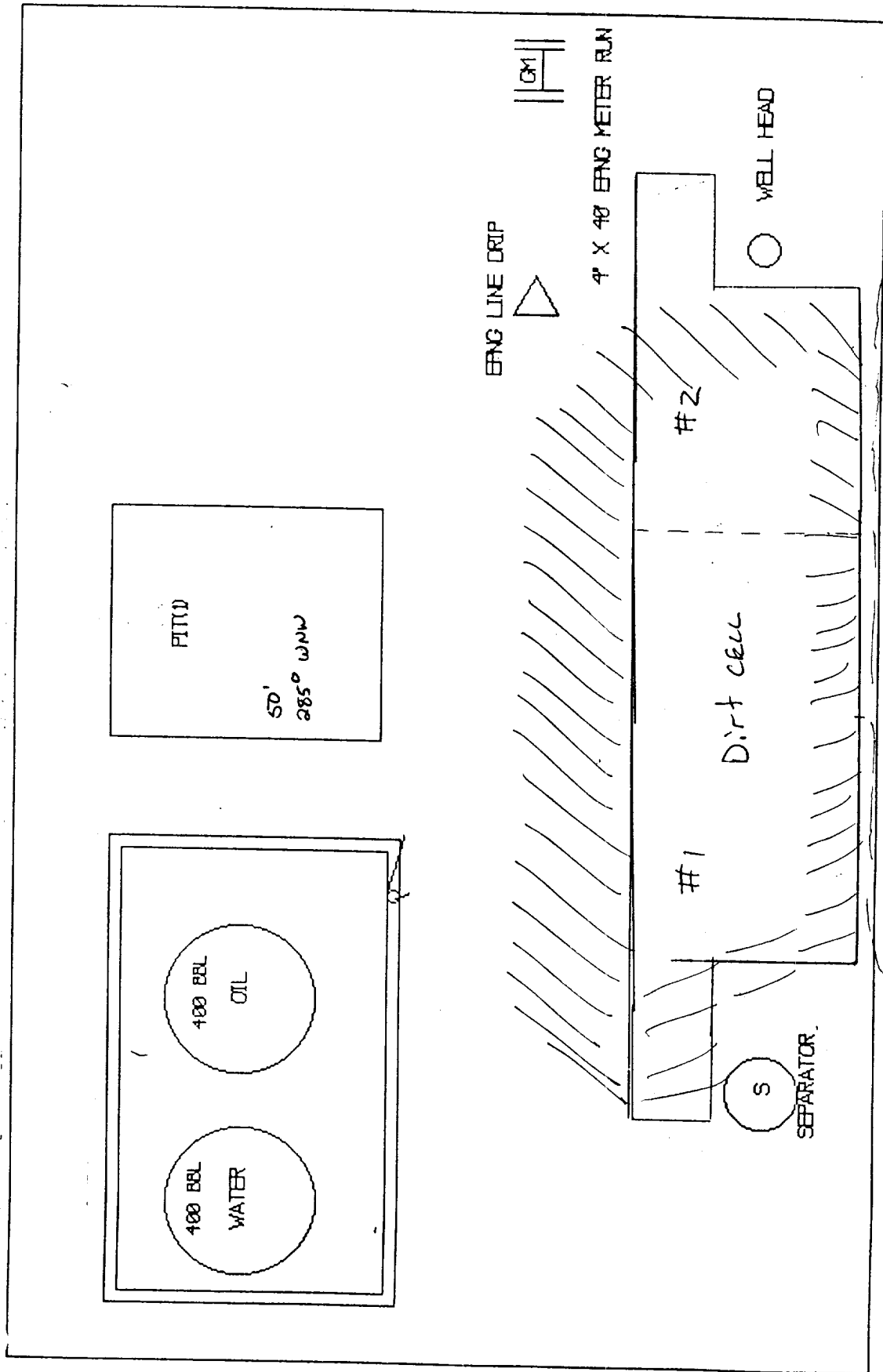
APACHE NUMBER 106 Lease JAT 126

NE/4 NE/4 (A)

SECTION 1, TOWNSHIP 24N, RANGE 4W

RIO ARriba COUNTY, NM

Revised 6/1/97 mo



See Area

APACHE CORPORATION FARMINGTON DISTRICT PIT EXCAVATION AND CLOSURE REPORT

JICARILLA APACHE TRIBAL EPO
REVIEW AND APPROVAL

EPO REPRESENTATIVE K.C.
DATE OF REVIEW: 10/30/95

LOCATION: APACHE 106

PIT COUNT: 1

				EXCAVATION					
DIMENSIONS		START		FINISH					
	W'	L'	D'		W'	L'	D'	CU.YDS.	
PIT 1	15'	21'	2'	PIT 1	24'	27'	8.5'	204.0	
PIT 2				PIT 2					
PIT 3				PIT 3					
DATE: 08/29/95		PIT 1@ 08.5'	PIT 2@	PIT 3@	DATE: 09/15/95		PIT 1@ 08.5'	PIT 2@	PIT 3@
P. I. D.	CENTER	120.0			P. I. D.	CENTER	2.1		
	NW CORNER	87.0				NW CORNER	14.4		
	NE CORNER	65.0				NE CORNER	3.8		
	SW CORNER	37.0				SW CORNER	2.1		
	SE CORNER	3.2				SE CORNER	1.5		

NOTES:

08/29/95 Excavate to 8.5', staining and odor to 8'.

*High TPH level from 08/29 sampling @ 6'.

SOIL SAMPLING

DATE: 08/29/95		PIT 1@ 06'	PIT 2@	PIT 3@	ANALYSIS RESULTS		PER LAB:	ASSAIGAI	
P. I. D.	CENTER	303.0			PIT	TPH	BTEX	WITNESS	DATE
	NW CORNER	111.0			NO.				
	NE CORNER	87.0			1	10000.0	21.7	IF&S	08/29/95
	SW CORNER	106.0							
	SE CORNER	3.7							

RE-SAMPLE OR CELL(S) SAMPLE

DATE: 09/15/95		PIT 1@ 08.5'	PIT 2@	PIT 3@	ANALYSIS RESULTS		PER LAB:	ASSAIGAI	
P. I. D.	CENTER	2.1			PIT	TPH	BTEX	WITNESS	DATE
	NW CORNER	14.4			NO.				
	NE CORNER	3.8			1	3100.0	0.4	JDT	09/15/95
	SW CORNER	2.1							
	SE CORNER	1.5							

RE-SAMPLE OR CELL(S) SAMPLE

DATE:		PIT 1@	PIT 2@	PIT 3@	ANALYSIS RESULTS		PER LAB:	
					TPH	BTEX	WITNESS	DATE
P.	CENTER							
I.	NW CORNER							
D.	NE CORNER							
	SW CORNER							
	SE CORNER							

Date Finished: 08/29/95

Notes:

PID READINGS						Site Number: 106	Notes:
Date	Pit No.	Interval (Depth)	Location	Reading (ppm)			
08/29/95	1	6'	Center	303			Starting Depth: 3'. Excavated to 6 feet, hit sandstone on the North and East Walls. Took 5 part composite sample and PID readings. Excavated to sandstone (7-9'), chased stain in center and S.E. Corner. Took PID readings, Moved soil and stopped.
08/29/95	1	6'	N.W. Corner	111			
08/29/95	1	6'	N.E. Corner	87			
08/29/95	1	6'	S.E. Corner	106			
08/29/95	1	6'	S.W. Corner	3.7			
08/29/95	1	8.5'	Center	120			
08/29/95	1	8.5'	N.W. Corner	87			
08/29/95	1	8.5'	N.E. Corner	65			
08/29/95	1	8.5'	S.E. Corner	37			
08/29/95	1	8.5'	S.W. Corner	3.2			
09/15/95	1	8.5'	Center	2.1			PID readings of samples before being sent to lab.
09/15/95	1	8.5'	N.W. Corner	14.4			
09/15/95	1	8.5'	N.E. Corner	3.8			
09/15/95	1	8.5'	S.E. Corner	2.1			
09/15/95	1	8.5'	S.W. Corner	1.5			

Lab ID: 9509143-11B
Sample ID: AP# 152C

Collected: 09/15/95 14:10:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	6.3B	mg/Kg	5.0	1.0	09/25/95	SLFTD45
HCs DSL XT/CAL DHS 8015M	09/20/95	N/A				

Lab ID: 9509143-12A
Sample ID: AP# 113

Collected: 09/15/95 14:20:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	09/22/95	SBTXME076
Toluene	ND	mg/Kg	0.0010	5.0	09/22/95	SBTXME076
Ethylbenzene	ND	mg/Kg	0.0010	5.0	09/22/95	SBTXME076
P-&m-Xylene	ND	mg/Kg	0.0010	5.0	09/22/95	SBTXME076
O-Xylene	ND	mg/Kg	0.0010	5.0	09/22/95	SBTXME076

Lab ID: 9509143-12B
Sample ID: AP# 113

Collected: 09/15/95 14:20:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	ND	mg/Kg	5.0	10	10/01/95	SLFTD45
HCs DSL XT/CAL DHS 8015M	09/20/95	N/A				

Lab ID: 9509143-13A
Sample ID: AP# 106

Collected: 09/15/95 14:35:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	100	09/22/95	SBTXME076
Toluene	ND	mg/Kg	0.0010	100	09/22/95	SBTXME076
Ethylbenzene	0.20	mg/Kg	0.0010	100	09/22/95	SBTXME076
P-&m-Xylene	0.21	mg/Kg	0.0010	100	09/22/95	SBTXME076
O-Xylene	ND	mg/Kg	0.0010	100	09/22/95	SBTXME076

Lab ID: 9509143-13B
Sample ID: AP# 106

Collected: 09/15/95 14:35:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M Diesel	3100	mg/Kg	5.0	100	09/26/95	SLFTD45
HCs DSL XT/CAL DHS 8015M	09/20/95	N/A				



ASSAIGAI ANALYTICAL LABORATORIES

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:

September 20, 1995 15:44

CERTIFICATE OF ANALYSIS RESULTS BY SAMPLE

SENT APACHE CORPORATION
TO: 304 N. BEHREND
FARMINGTON, NM 87401

WORKORDER # : 9509064
WORK ID : PIT REMEDIATION 95017
CLIENT CODE : APA01
DATE RECEIVED : 09/08/95

ATTN: JOHN TAYLOR

Page: 1

Lab ID: 9509064-01A
Sample ID: AP# 106

Collected: 08/29/95 11:20:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	500	09/12/95	SMSVOA316
Toluene	ND	mg/Kg	0.0010	500	09/12/95	SMSVOA316
Ethylbenzene	1.7	mg/Kg	0.0010	500	09/12/95	SMSVOA316
P-&m-Xylene	13	mg/Kg	0.0020	500	09/12/95	SMSVOA316
O-Xylene	7.0	mg/Kg	0.0010	500	09/12/95	SMSVOA316

Lab ID: 9509064-01B
Sample ID: AP# 106

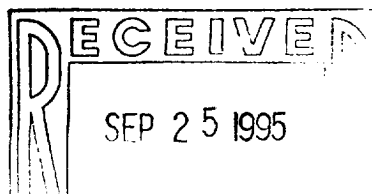
Collected: 08/29/95 11:20:00
Matrix: SOIL

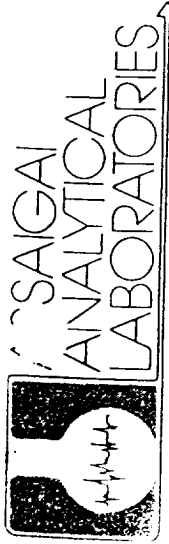
TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
HCs DIESEL/CAL DHS 8015M						
Diesel	10000	mg/Kg	5.0	1000	09/15/95	SLFTD042
HCs DSL XT/CAL DHS 8015M	09/11/95	N/A				

Lab ID: 9509064-02A
Sample ID: AP# 116

Collected: 08/29/95 15:20:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/Kg	0.0010	5.0	09/12/95	SMSVOA316
Toluene	ND	mg/Kg	0.0010	5.0	09/12/95	SMSVOA316
Ethylbenzene	ND	mg/Kg	0.0010	5.0	09/12/95	SMSVOA316
P-&m-Xylene	ND	mg/Kg	0.0020	5.0	09/12/95	SMSVOA316
O-Xylene	ND	mg/Kg	0.0010	5.0	09/12/95	SMSVOA316





Chain of Custody Record

Lab Job No.: 9064 Date: 1 of 2

Client Apache Corp.
Address 304 W. Behrend
City / State / Zip Farlington, N.M. 87401
Project Name / Number Pit Remediation 9507
Contract / Purchase Order / Quote _____

Project Manager / Contact John Taylor
Telephone No. (505) 325-0318
Fax No. (505) 325-0328
Samplers: (Signature) [Signature]

7300 JEFFERSON, N.E.
ALBUQUERQUE, NEW MEXICO 87105
(505) 345-8964

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

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

MELOQUIADES ALANIS
6411 LOCAL UNO
CIUDAD JUAREZ, CHIHUAHUA MEXICO 32320

Analysis Required	No. of Containers	Field Sample Number / Location	Date	Time	Sample Type	Type / Size of Container	Preservation Temp.	Chemical	Remarks
		AP # 106	8/29	11:20	Soil	Close	500	ICE	
		AP # 106	8/29	11:20					
		AP # 116	8/29	3:20					
		AP # 116	8/29	3:20					
		AP # 127	8/30	2:45					
		AP # 127	8/30	2:45					
		AP # 29	9/1	1:30					
		AP # 29	9/1	1:30					
		AP # 24	9/1	3:30					
		AP # 24	9/1	3:30					
		AP # 111	9/5	3:00					
		AP # 111	9/5	3:00					

Relinquished by: [Signature]
Signature Scott Davis
Printed SCOTT DAVIS
Company AAL
Reason pick up / Testing

Received by: [Signature]
Signature Scott Davis
Printed SCOTT DAVIS
Company AAL
Reason pick up / Testing

Date 9/8/95
Time 3:25 PM

Method of Shipment: _____
Shipment No. _____
Special Instructions: _____

Comments: _____

After analysis, samples are to be:
☐ Disposed of (additional fee)
☐ Stored (30 days max)
☐ Stored over 30 days (additional fee)
☐ Returned to customer

RECEIVED
SEP 25 1995

COURIER

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

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>APACHE CORPORATION</u> Telephone <u>505-325-0318</u>	
Address: <u>304 N. BEHREND, FARMINGTON, N.M. 87401</u>	
Facility or Well Name: <u>APACHE # 106</u> CELL # <u>1</u>	
Location: Unit or Qtr/Qtr Sec <u>A</u> Sec <u>1</u> T <u>24N</u> R <u>4W</u> County <u>RIO ARRIBA</u>	
Land Type <u>JIC. TRIBAL</u>	
Date Remediation Started: <u>8/29/95</u> Date Completed: <u>8-12-97</u>	
Remediation Method: Landfarmed <u>XXX</u> Approx. cubic yards <u>127</u>	
Composted _____	
Other _____	
Depth to Groundwater: (pts) <u>0</u>	Final Closure Sampling Sampling Date: <u>8/12/97</u> Time: <u>3:00 PM</u> Sample Results: Field Headspace (ppm) <u>1.3</u> TPH (ppm) <u>900</u> Method <u>M8015</u> Other <u>BTEX \ SW846, 8020A (ND)</u>
Distance to an Ephemeral Stream: (pts) <u>0</u>	
Distance to Nearest Lake, Playa, or Watering Pond: (pts) <u>0</u>	
Wellhead Protection Area: (pts) <u>0</u>	
Distance To Surface Water: (pts) <u>0</u>	
RANKING SCORE (TOTAL POINTS) <u>0</u>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF	
DATE: <u>8-22-97</u>	PRINTED NAME <u>JEFF CROSS</u>
SIGNATURE <u>Jeff Cross</u>	TITLE <u>PROJECT MANAGER</u>
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION. ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.	
APPROVED: YES <u>X</u> NO _____ (REASON) <u>No Backfill</u>	
SIGNED: <u>Kevin C. Mamm</u>	DATE: <u>9-30-97</u>

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

ON-SITE SOIL REMEDIATION REPORT

Operator: <u>APACHE CORPORATION</u>		Telephone: <u>505-325-0318</u>	
Address: <u>304 N. BEHREND, FARMINGTON, N.M. 87401</u>			
Facility or Well Name: <u>APACHE # 106 CELL # 2</u>			
Location: Unit or Qtr/Qtr Sec <u>A</u> Sec <u>1</u> T <u>24N</u> R <u>4W</u> County <u>RIO ARRIBA</u>			
Land Type <u>JIC. TRIBAL</u>			
Date Remediation Started: <u>8/29/95</u>		Date Completed: <u>9/9/97</u>	
Remediation Method: Landfarmed <u>XXX</u>		Approx. cubic yards <u>77</u>	
Composted <u> </u>			
Other <u> </u>			
Depth to Groundwater: (pts) <u>0</u>		Final Closure Sampling Sampling Date: <u>9/9/97</u> Time: <u>11:15AM</u> Sample Results: Field Headspace (ppm) <u>2.1</u> TPH (ppm) <u>3800</u> Method <u>M8015</u> Other <u>BTEX \ SW846, 8020A (ND)</u>	
Distance to an Ephemeral Stream: (pts) <u>0</u>			
Distance to Nearest Lake, Playa, or Watering Pond: (pts) <u>0</u>			
Wellhead Protection Area: (pts) <u>0</u>			
Distance To Surface Water: (pts) <u>0</u>			
RANKING SCORE (TOTAL POINTS) <u>0</u>			
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF			
DATE: <u>9-22-97</u>		PRINTED NAME <u>JEFF CROSS</u>	
SIGNATURE <u>Jeff Cross</u>		TITLE <u>PROJECT MANAGER</u>	
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION. ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.			
APPROVED: YES <u>X</u> NO <u> </u> (REASON) <u> </u>			
SIGNED: <u>Kevin C. Mard</u>		DATE: <u>9-30-97</u>	

APACHE CORPORATION/FARMINGTON DISTRICT SOIL REMEDIATIONS STATUS REPORT

REMEDIATION SITE

APACHE # 106

* AMOUNT OF SOIL UNDERGOING REMEDIATION

204

Yds.

CELL No. <u>1</u>	SampDATE <u>8/12/97</u>	TPH <u>900</u>	BTEX <u>NO</u>
DIMENSIONS(LxWxH) <u>155' L X 15' W X 18" H</u>			
CELL LOCATION (dir. from well head) <u>WEST</u>			
* DATE BEGAN: <u>8/29/95</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) _____			
CELL No. <u>2</u>	SampDATE <u>8/18/97</u>	TPH <u>6000</u>	BTEX <u>NO</u>
DIMENSIONS(LxWxH) <u>70' L X 20' W X 18" H</u>	<u>9-9-97</u>	<u>3800</u>	<u>NO</u>
CELL LOCATION (dir. from well head) <u>WEST</u>			
* DATE BEGAN: <u>8/29/97</u>			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) _____			
CELL No. <u>3</u>	SampDATE	TPH	BTEX
DIMENSIONS(LxWxH) _____			
CELL LOCATION (dir. from well head) _____			
* DATE BEGAN: _____			
DATE TERMINATED (TPH <5,000 ppm/BTEX< 50 ppm/Benzene < 10 ppm) _____			
REMEDICATION RECORD: (Date, Treatment, Tilling)			
9/10/95 TREAT CELLS WITH 28-4-4 FERTILIZER.			
8/7/97 WATER AND TILL CELLS.			
8/12/97 TILL CELLS.			
8/17/97 TREAT CELL # 2 WITH 15 LBS PHOSPHORUS,39 LBS 46-0-0 FERT.			
8/17/97 TREAT CELL # 2 WITH 20 LBS LIME.			

From excavation reports.

WELL NAME:

Apache #106 cell #2

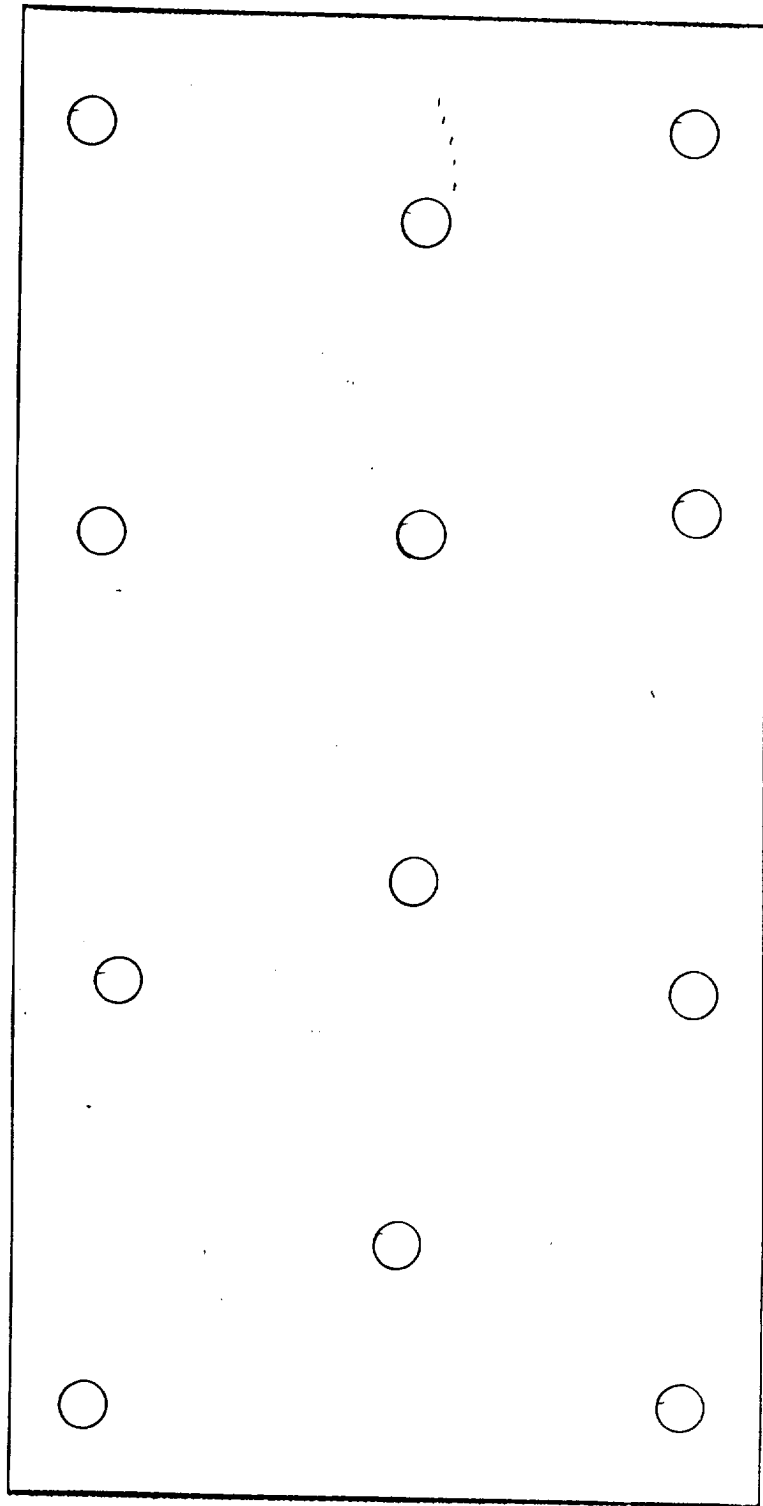
SAMPLE DATE:

9-9-97 Resample.

DIMENSIONS:

70' x 20' x 18"

= SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL

12 point composite sample

P.O composite Reading 2.1 ppm.

WELL NAME:

Apache #106 Cell #2

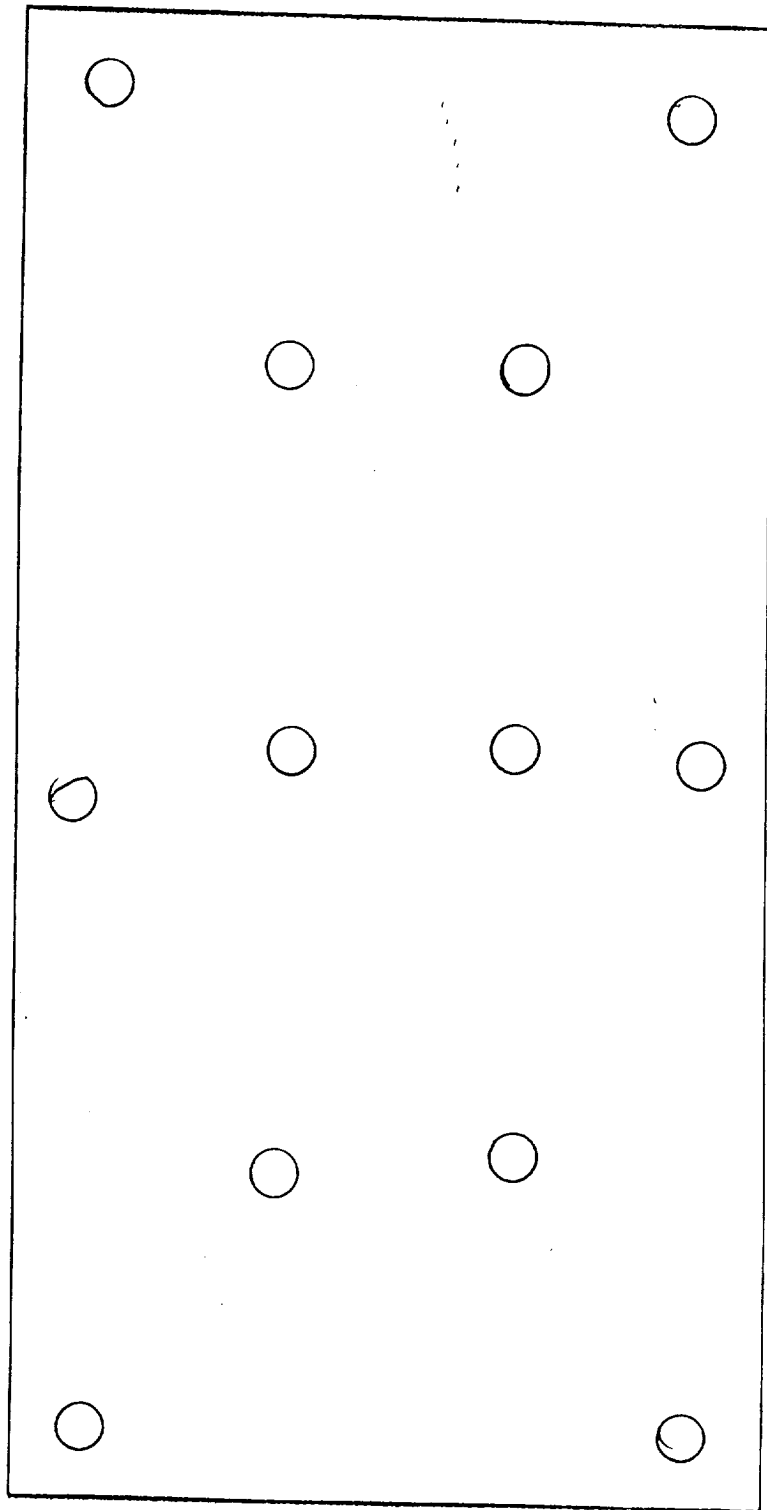
SAMPLE DATE:

8-18-97

DIMENSIONS:

70' x 20' x 18" H.

= SAMPLE AREA



NOTES:

ALL SAMPLES TAKEN 10" TO 12" INTO CELL

12 point composite sample

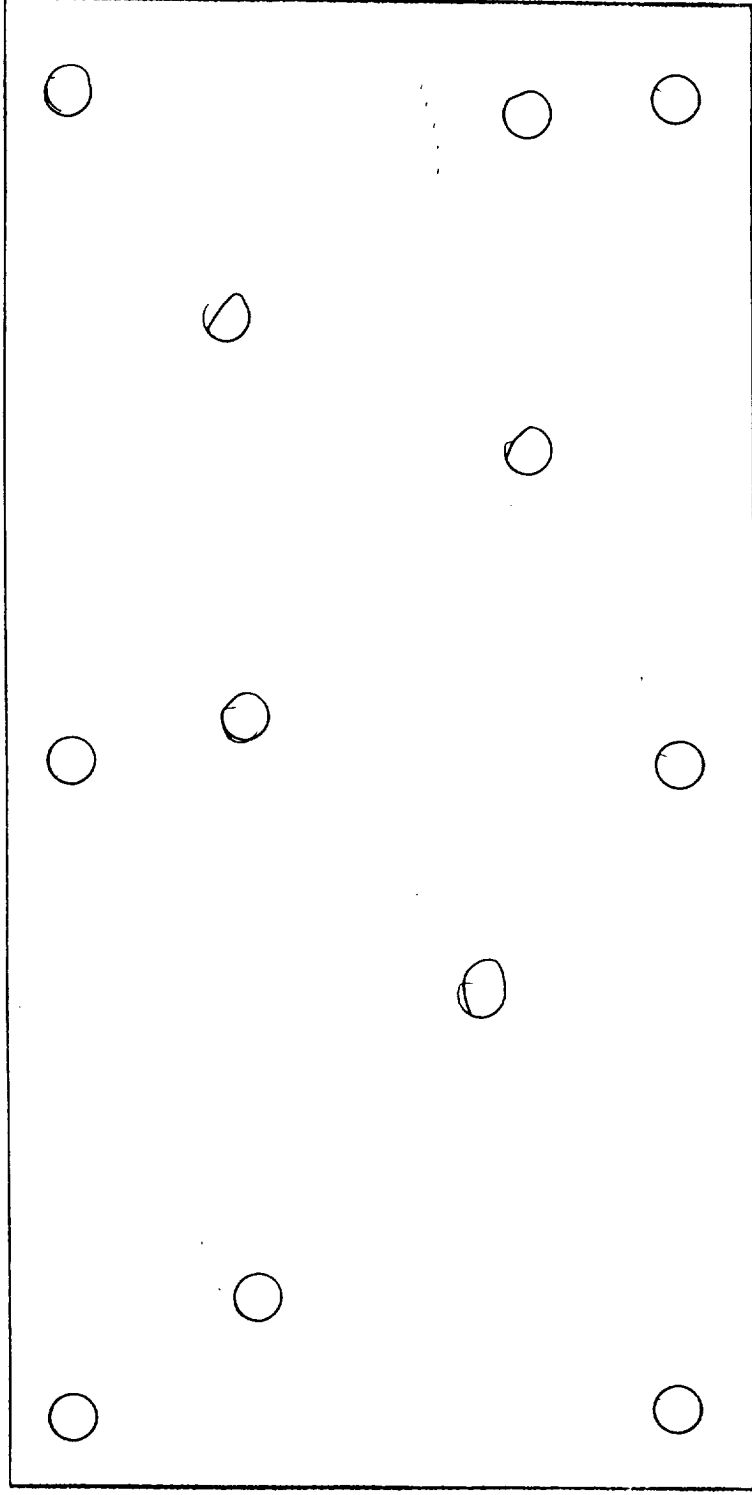
P10 Composite Reading: 3.7 ppm.

WELL NAME: Apache #106 Cell #1

SAMPLE DATE: 8-12-97

DIMENSIONS: 155' L x 15' W x 18" H

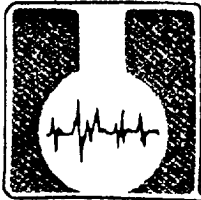
○ = SAMPLE AREA



NOTES: ALL SAMPLES TAKEN 10" TO 12" INTO CELL

12 point composite sample

P10 Composite Reading 1.3 ppm



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Report Generated:

September 16, 1997 14:39

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

SENT APACHE CORPORATION
TO: 304 N. BEHREND
FARMINGTON, NM 87401

WORKORDER # : 9709107
WORK ID : JICARILLA PIT CLOSURES
CLIENT CODE : APA01
DATE RECEIVED : 09/12/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9709107-01A *Resample J.L.*
Sample ID: APACHE 106 CELL #2

Collected: 09/09/97 11:15:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/kg	0.0050	100	09/14/97	X97262
Toluene	ND	mg/kg	0.0050	100	09/14/97	X97262
Ethylbenzene	ND	mg/kg	0.0050	100	09/14/97	X97262
P-&m-Xylene	ND	mg/kg	0.010	100	09/14/97	X97262
O-Xylene	ND	mg/kg	0.0050	100	09/14/97	X97262

Lab ID: 9709107-01B *Resample J.L.*
Sample ID: APACHE 106 CELL #2

Collected: 09/09/97 11:15:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	3800	mg/Kg	25	25	09/12/97	SDRO052

[Signature]
For William P. Biava
President



WORKORDER COMMENTS

DATE : 09/16/97
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"
- NT = 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

William of Cuslouny Record

ALBUQUERQUE, NEW MEXICO 87103
(505) 345-8964

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

Project Manager / Contact ~~Jeff Cross~~

Telephone No. (505) 774-6643

Fax No. (505) 774-6624

Samplers: (Signature)

Contract / Purchase Order / Quote

Samplers: (Signature) [Signature]

[illegible]

Company _____

Special Instructions:

LCSh

After analysis, samples are to be:

☐ Disposed of (additional fee)☐ Stored (30 days max)

☐ Stored over 30 days (additional fee)

☐ Returned to customer

LABORATORY



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Report Generated:
August 22, 1997 14:29

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

SENT APACHE CORPORATION
TO: 304 N. BEHREND
FARMINGTON, NM 87401

WORKORDER # : 9708164
WORK ID : JICARILLA PIT CLOSURES
CLIENT CODE : APA01
DATE RECEIVED : 08/15/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9708164-01A
Sample ID: A106 DIRT CELL #1

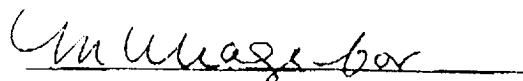
Collected: 08/12/97 15:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/kg	0.0050	100	08/19/97	SBTXME185
Toluene	ND	mg/kg	0.0050	100	08/19/97	SBTXME185
Ethylbenzene	ND	mg/kg	0.0050	100	08/19/97	SBTXME185
P-&m-Xylene	ND	mg/kg	0.010	100	08/19/97	SBTXME185
O-Xylene	ND	mg/kg	0.0050	100	08/19/97	SBTXME185

Lab ID: 9708164-01B
Sample ID: A106 DIRT CELL #1

Collected: 08/12/97 15:00:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015 Diesel Range OG in Soil	900	mg/Kg	25	25	08/19/97	SDRO47


William P. Biava
President



WORKORDER COMMENTS

DATE : 08/22/97
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"
- NT = 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 Custody Record

8164 on 8/15/92

1915 570-1116

Contract / Purchase Order / Quote

Method of Shipment Agent No. of Instructions	Comments:
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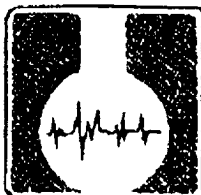
Special Instructions:

Comments:

[illegible]

Special Instructions:

88-154189



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Report Generated:
August 25, 1997 12:14

**CERTIFICATE OF ANALYSIS
RESULTS BY SAMPLE**

SENT APACHE CORPORATION
TO: 304 N. BEHREND
FARMINGTON, NM 87401

WORKORDER # : 9708190
WORK ID : JICARILLA PIT CLOSURES
CLIENT CODE : APA01
DATE RECEIVED : 08/20/97

ATTN: JEFF CROSS

Page: 1

Lab ID: 9708190-01A
Sample ID: A 106 DIRT CELL #2

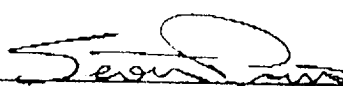
Collected: 08/18/97 10:45:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
BTEX/SW846 8020A						
Benzene	ND	mg/kg	0.0050	100	08/21/97	SBTXME186
Toluene	ND	mg/kg	0.0050	100	08/21/97	SBTXME186
Ethylbenzene	ND	mg/kg	0.0050	100	08/21/97	SBTXME186
P-&m-Xylene	ND	mg/kg	0.010	100	08/21/97	SBTXME186
O-Xylene	ND	mg/kg	0.0050	100	08/21/97	SBTXME186

Lab ID: 9708190-01B
Sample ID: A 106 DIRT CELL #2

Collected: 08/18/97 10:45:00
Matrix: SOIL

TEST / METHOD	RESULT	UNITS	LIMIT	D_F	DATE ANAL	BATCH_ID
Diesel Range OG Soil/M8015						
Diesel Range OG in Soil	6000	mg/Kg	25	25	08/21/97	SDR0049


William P. Biava
President



