

# PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company Telephone: (505) - 326-9200

Address: 200 Amoco Court, Farmington, New Mexico 87401

Facility Or: JAQUEZ GAS COM C # 1A  
Well Name

Location: Unit or Qtr/Qtr Sec K Sec 6 T 29N R 9W County SAN JUAN

Pit Type: Separator    Dehydrator    Other BLOW

Land Type: BLM X, State   , Fee   , Other   

Pit Location: Pit dimensions: length 30', width 30', depth 3'-10'  
(Attach diagram)  
Reference: wellhead X, other \_\_\_\_\_  
Footage from reference: 150  
Direction from reference: 60 Degrees \_\_\_\_\_ East North X  
of  
X West South \_\_\_\_\_

**Depth To Ground Water:**  
(Vertical distance from  
contaminants to seasonal  
high water elevation of  
ground water)

Less than 50 feet (20 points)  
50 feet to 99 feet (10 points)  
Greater than 100 feet (0 Points) 0

**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) 0

**Distance To Surface Water:**  
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)

Less than 200 feet (20 points)  
200 feet to 1000 feet (10 points)  
Greater than 1000 feet (0 points) 0

**RANKING SCORE (TOTAL POINTS):** 0

Date Remediation Started: \_\_\_\_\_

Date Completed: 11-21-94

Remediation Method: Excavation X  
(Check all appropriate sections)

Approx. cubic yards 150

Landfarmed X

Insitu Bioremediation \_\_\_\_\_

Other \_\_\_\_\_

Remediation Location:  
(ie. landfarmed onsite,  
name and location of  
offsite facility)

Onsite X Offsite \_\_\_\_\_

General Description Of Remedial Action: \_\_\_\_\_

Excavation

nmocd letter correspondence

11-26-96

Ground Water Encountered:

No X

Yes \_\_\_\_\_

Depth \_\_\_\_\_

Final Pit:

Closure Sampling:

(if multiple samples,  
attach sample results  
and diagram of sample  
locations and depths)

Sample location see Attached Documents

Sample depth 10'

Sample date 11-21-94

Sample time \_\_\_\_\_

Sample Results

Benzene(ppm) \_\_\_\_\_

Total BTEX(ppm) \_\_\_\_\_

Field headspace(ppm) 1

TPH 1346 ppm

Ground Water Sample: Yes \_\_\_\_\_ No X (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 11/22/94

SIGNATURE

B. Shaw

PRINTED NAME  
AND TITLE

Buddy D. Shaw  
Environmental Coordinator

RESULTS TO BOB MCLOY 11-21-94 PEO

CLIENT: <u>Amoco</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80171</u> C.D.C. NO: _____
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## FIELD REPORT: PIT CLOSURE VERIFICATION

LOCATION: NAME: <u>JAQUEZ GAS COM C WELL #:</u>	<u>1A</u>	PIT: <u>BLW</u>	DATE STARTED: <u>11-21-94</u>
QUAD/UNIT: <u>K</u>	SEC: <u>6</u>	TWP: <u>29 N</u>	DATE FINISHED: _____
RNG: <u>9 W</u>	BM: <u>NM</u>	CNTY: <u>SS</u>	ENVIRONMENTAL SPECIALIST: <u>REO</u>
QTR/FOOTAGE: <u>NE/SW</u>	CONTRACTOR: <u>PAUL + SONS</u>		

EXCAVATION APPROX. 30 FT. x 30 FT. x 3-10 FT. DEEP. CUBIC YARDS: 150  
DISPOSAL FACILITY: ON SITE REMEDIATION METHOD: LANDFARM  
LAND USE: RANGE LEASE: 077092D FORMATION: MU

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 150 FEET N60°W FROM WELLHEAD.

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOC Ranking Score: 0 NMOC TPH Closure Std: 5000 PPM

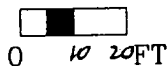
SOIL AND EXCAVATION DESCRIPTION: PIT DISPOSITION: As Inspected

FIRM, SILTY CLAY, FRACTURED, MOIST, BROWN - MIGRATION OF CONTAMINATION UNLIKELY.  
NO ODOUR / STAIN.

## FIELD 418.1 CALCULATIONS

FIELD 418.1 CALCULATIONS						
SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
CB@10'	1289	10.0	20.0	-	673	1346

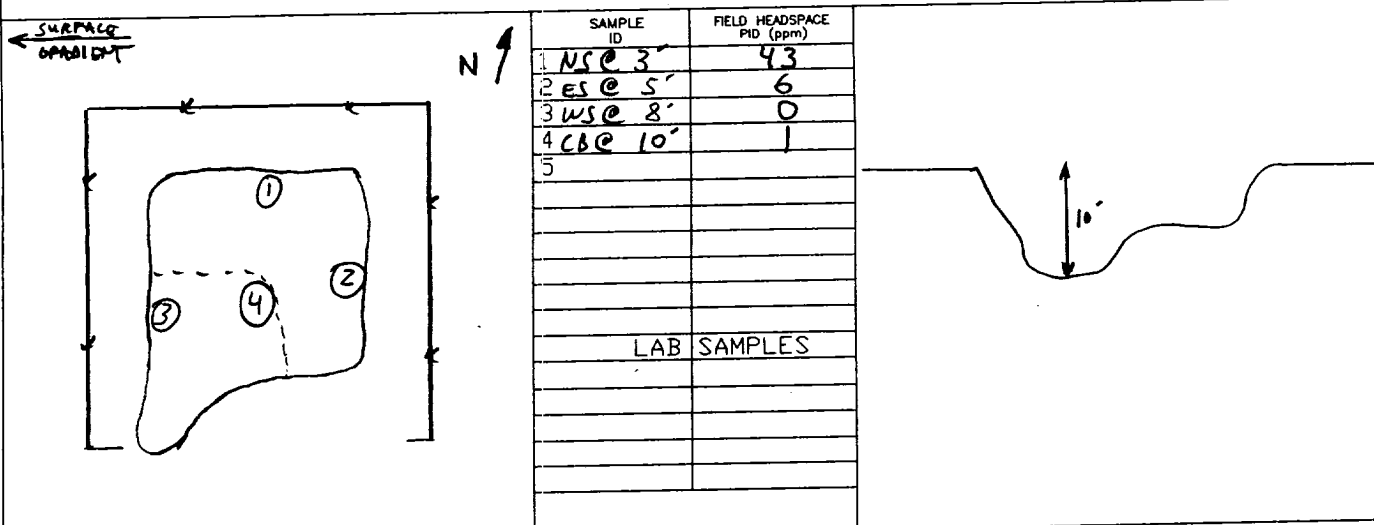
SCALE



PIT PERIMETER

## OVM RESULTS

## PIT PROFILE



TRAVEL NOTES: CALLOUT: 11-18-94 ONSITE: 11-21-94 0830

**BLAGG ENGINEERING, INC.**

P.O. Box 87, Bloomfield, New Mexico 87413  
Phone: (505)632-1199 Fax: (505)632-3903

**FIELD MODIFIED EPA METHOD 418.1  
TOTAL PETROLEUM HYDROCARBONS**

Client:	Amoco	Project #:	
Sample ID:	C Bottom @ 10'	Date Analyzed:	11-21-94
Project Location:	Jaquez Gas Com C 1A	Date Reported:	11-21-94
Laboratory Number:	TPH-1289	Sample Matrix:	Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	1300	10

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	1,500	1,300	14

\*Administrative Acceptance limits set at 30%.

Method: Modified Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Blow Pit - B0171

R. E. O'Neil  
Analyst

Nelson Vely  
Review

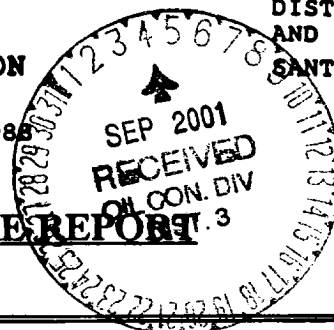
District I  
P.O. Box 1980, Hobbs, NM  
District II  
P.O. Drawer DD, Artesia, NM 88211  
District III  
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico  
Energy, Minerals and Natural Resources Department

SUBMIT 1 COPY TO  
APPROPRIATE  
DISTRICT OFFICE  
AND 1 COPY TO  
SANTA FE OFFICE

OIL CONSERVATION DIVISION

P.O. Box 2088  
Santa Fe, New Mexico 87504-2088



PIT REMEDIATION AND CLOSURE REPORT

Operator: Amoco Production Company Telephone: (505) - 326-9200  
Address: 200 Amoco Court, Farmington, New Mexico 87401  
Facility Or: JACQUEZ GAS CON C \* 1A  
Well Name  
Location: Unit or Qtr/Qtr Sec 11 Sec 6 T29N R 9W County SAN JUAN  
Pit Type: Separator X Dehydrator      Other       
Land Type: BLM X, State     , Fee     , Other     

Pit Location: Pit dimensions: length 20', width 20', depth 2'  
(Attach diagram) Reference: wellhead X, other       
Footage from reference: 165  
Direction from reference: 25 Degrees      East North X  
of  
X West South     

Depth To Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet (20 points) 50 feet to 99 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 200 feet (20 points) 200 feet to 1000 feet (10 points) Greater than 1000 feet (0 points) <u>0</u>

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: \_\_\_\_\_ Date Completed: 11-21-94

Remediation Method: Excavation X Approx. cubic yards 25  
 (Check all appropriate sections) Landfarmed X Insitu Bioremediation \_\_\_\_\_

Other \_\_\_\_\_

Remediation Location: Onsite X Offsite \_\_\_\_\_  
 (ie. landfarmed onsite, name and location of offsite facility)

General Description Of Remedial Action: \_\_\_\_\_

Excavation - INTO BEDROCK

nmocd letter correspondence 11-26-96

Ground Water Encountered: No X Yes \_\_\_\_\_ Depth \_\_\_\_\_

Final Pit: Sample location see Attached Documents

Closure Sampling:  
 (if multiple samples, attach sample results and diagram of sample locations and depths)

Sample depth 2'

Sample date 11-21-94 Sample time \_\_\_\_\_

#### Sample Results

Benzene(ppm) \_\_\_\_\_

Total BTEX(ppm) \_\_\_\_\_

Field headspace(ppm) 854

TPH 12,300 ppm

Ground Water Sample: Yes \_\_\_\_\_ No X (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 11/22/94

SIGNATURE

B. Shaw

PRINTED NAME  
AND TITLE

Buddy D. Shaw  
Environmental Coordinator

RESULTS TO BOB MCLOY 11-21-94 RLO

CLIENT: <u>AMOCO</u>	BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	LOCATION NO: <u>80171</u> C.D.C. NO: _____
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FIELD REPORT: PIT CLOSURE VERIFICATION

LOCATION: NAME: <u>JACQUEZ GAS COM C</u> WELL #: <u>1A</u> PIT: <u>SEP</u>	DATE STARTED: <u>11-21-94</u>
QUAD/UNIT: <u>K</u> SEC: <u>6</u> TWP: <u>29N</u> RNG: <u>9W</u> BM: <u>NM</u> CNTY: <u>SJ</u> ST: <u>NM</u>	DATE FINISHED: _____
QTR/FOOTAGE: <u>NW/SW</u> CONTRACTOR: <u>PAUL + SONS</u>	ENVIRONMENTAL SPECIALIST: <u>RLO</u>

EXCAVATION APPROX. 20 FT. x 20 FT. x 2 FT. DEEP. CUBIC YARDS: 25

DISPOSAL FACILITY: ON SITE REMEDIATION METHOD: LANDFARM

LAND USE: RANGE LEASE: 077092D FORMATION: MV

FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 165 FEET N25°W FROM WELLHEAD.

DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'

NMOC D RANKING SCORE: 0 NMOC D TPH CLOSURE STD: 5000 PPM

SOIL AND EXCAVATION DESCRIPTION: PIT DISPOSITION: ABANDONED

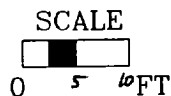
MOIST, BROWN, SILTY SAND → SANDSTONE. PIT EXCAVATED INTO SANDSTONE -  
HYDROCARBON STAIN VISIBLE ON SANDSTONE BOTTOM AT EDGES. EXCAVATED TO  
PRACTICAL LIMITS.

CLOSED DUE TO BEDROCK. 91V

BEDROCK

FIELD 418.1 CALCULATIONS

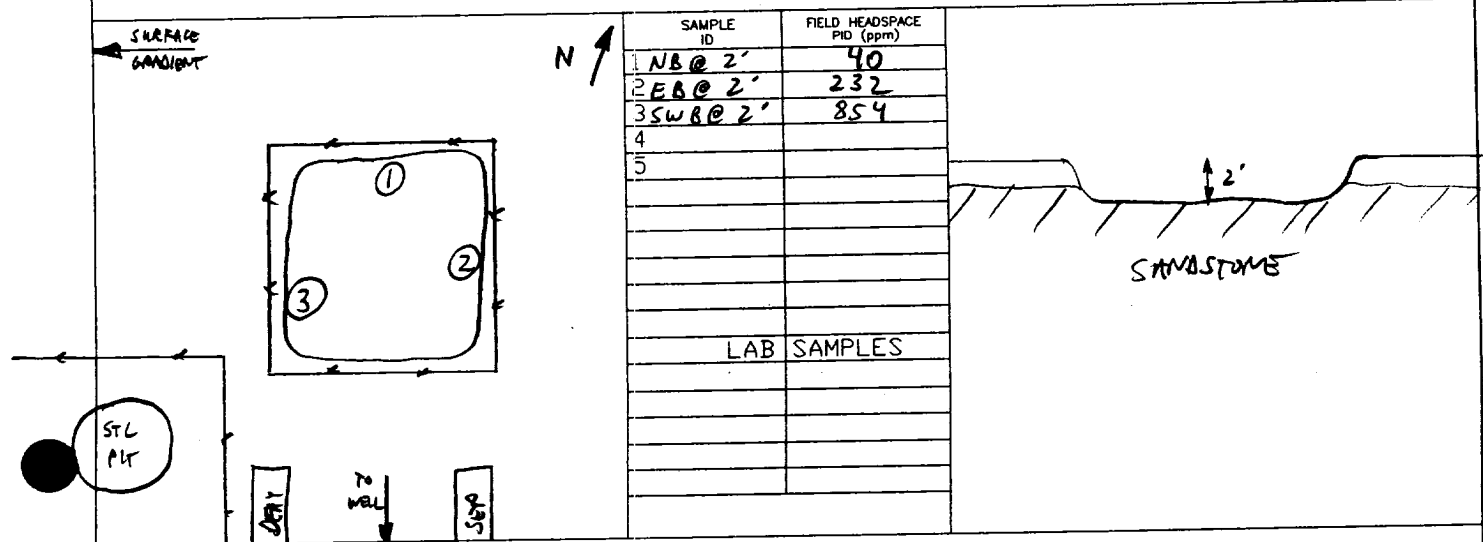
SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm
SWB@2'	1290	10.0	20.0	10	615	12300



PIT PERIMETER

OVM RESULTS

PIT PROFILE



TRAVEL NOTES: CALLOUT: 11-18-94 ONSITE: 11-18-94 1000

**BLAGG ENGINEERING, INC.**

P.O. Box 87, Bloomfield, New Mexico 87413  
Phone: (505)632-1199 Fax: (505)632-3903

**FIELD MODIFIED EPA METHOD 418.1  
TOTAL PETROLEUM HYDROCARBONS**

Client: Amoco  
Sample ID: SW Bottom @ 2'  
Project Location: Jaquez Gas Com C 1A  
Laboratory Number: TPH-1290

Project #:   
Date Analyzed: 11-21-94  
Date Reported: 11-21-94  
Sample Matrix: Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable Petroleum Hydrocarbons	12300	100

ND = Not Detectable at stated detection limits.

QA/QC:	QA/QC Sample TPH mg/kg	Duplicate TPH mg/kg	% *Diff.
	1,500	1,300	14

\*Administrative Acceptance limits set at 30%.

Method: Modified Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis of Water and Waste, USEPA Storet No.4551, 1978

Comments: Separator Pit - B0171

R. E. O'Neil  
Analyst

Nelson Veliz  
Review

CLIENT: BPBLAGG ENGINEERING, INC.  
P.O. BOX 87, BLOOMFIELD, NM 87413  
(505) 632-1199LOCATION NO: 80171C.O.C. NO: 9276

## FIELD REPORT: LANDFARM/COMPOST PILE CLOSURE VERIFICATION

LOCATION: NAME: Jaquez GC C WELL #: 1A PITS: Blow, SEP-DATE STARTED: 7/13/01QUAD/UNIT: K SEC: 6 TWP: 29N RNG: 9W PM: Nm CNTY: SJ ST: NM

DATE FINISHED: \_\_\_\_\_

QTR/FOOTAGE: \_\_\_\_\_ NELSW CONTRACTOR: P+SENVIRONMENTAL SPECIALIST: NV

## SOIL REMEDIATION:

175

REMEDICATION SYSTEM: StockpileAPPROX. CUBIC YARDAGE: 175LAND USE: RANGE - Gm SF: 077092DLIFT DEPTH (ft): N/A

## FIELD NOTES &amp; REMARKS:

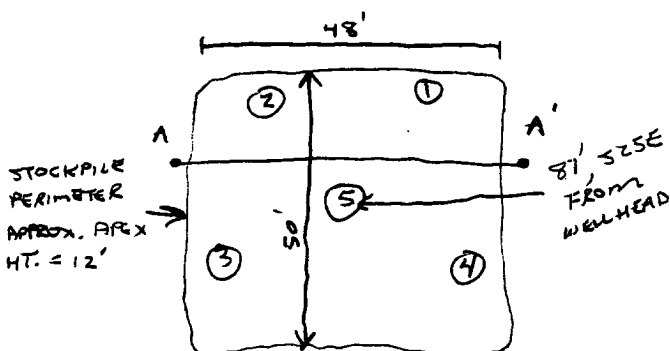
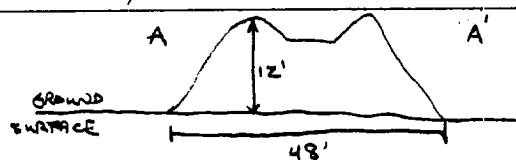
NMCD RANKING SCORE: 0 NMCD TPH CLOSURE STD: 5000 PPMDEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE: >1000' NEAREST SURFACE WATER: >1000'SOIL TYPE: SAND SILTY SAND / SILT / SILTY CLAY / CLAY / GRAVEL / OTHER SANDSTONE FRAGMENTSSOIL COLOR: PALE YEL. TO MOD. YEL. BROWNPLASTICITY (CLAYS): NON PLASTIC / SLIGHTLY PLASTIC / COHESIVE / MEDIUM PLASTIC / HIGHLY PLASTICCOHESION (ALL OTHERS): NON COHESIVE / SLIGHTLY COHESIVE / COHESIVE / HIGHLY COHESIVEDENSITY (COHESIVE CLAYS & SILTS): SOFT / FIRM / STIFF / VERY STIFF / HARDCONSISTENCY (NON COHESIVE SOILS): LOOSE / FIRM / DENSE / VERY DENSEDISCOLORATION/STAINING OBSERVED: YES / NO EXPLANATION: \_\_\_\_\_HC ODOR DETECTED: YES / NO EXPLANATION: \_\_\_\_\_SAMPLING DEPTHS (LANDFARMS): 12-36 (INCHES)SAMPLE TYPE: GRAB / COMPOSITE - # OF PTS. 5CLOSED

ADDITIONAL COMMENTS: \_\_\_\_\_

## FIELD 418.1 CALCULATIONS

SAMP. TIME	SAMPLE I.D.	LAB No:	WEIGHT (g)	mL. FREON	DILUTION	READING	CALC. ppm

## SKETCH/SAMPLE LOCATIONS

OVM CALIB. READ. 52.8 ppm  
OVM CALIB. GAS = 100 ppm; RF = 0.52  
TIME: 12:12 am/pm DATE: 7/11/01

## OVM RESULTS

## LAB SAMPLES

SAMPLE ID	FIELD HEADSPACE PID (ppm)	SAMPLE ID	ANALYSIS	TIME	RESULTS
SP-1	0.0	SP-1	TPH (80/5)	1230	ND

## SCALE



0 FT

P.C. - 11/21/94

TRAVEL NOTES: CALLOUT: N/AONSITE: 7/13/01

EPA METHOD 8015 Modified  
Nonhalogenated Volatile Organics  
Total Petroleum Hydrocarbons

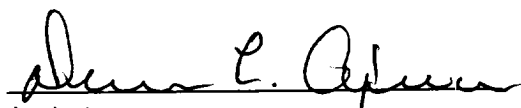
Client:	Blagg / BP	Project #:	94034-010
Sample ID:	LF - 1	Date Reported:	07-18-01
Laboratory Number:	20395	Date Sampled:	07-13-01
Chain of Custody No:	9276	Date Received:	07-16-01
Sample Matrix:	Soil	Date Extracted:	07-16-01
Preservative:	Cool	Date Analyzed:	07-18-01
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

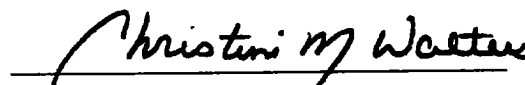
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: Jaquez GC C #1A Stockpile.

  
Analyst

  
Review

# CHAIN OF CUSTODY RECORD

09276

Client / Project Name		Project Location		ANALYSIS / PARAMETERS																		
BLAGE / BP		JAQUEZ LEASE																				
Sampler: NJV		Client No. 94034-010																				
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	No. of Containers	TPH (5015)							Remarks									
LF-1	7/13/01	0905	20392	SOIL	1	✓							JAQUEZ GC A #3E									
LF-2	7/13/01	0945	20393	SOIL	1	✓							" " "									
LF-1	7/13/01	1045	20394	SOIL	1	✓							JAQUEZ GC A #1A									
LF-1	7/13/01	1230	20395	SOIL	1	✓							JAQUEZ GC C #1A - STOCKPILE									
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time												
Nelson Vry		7/18/01		0729		[Signature]		7/16/01		0729												
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time												
Relinquished by: (Signature)		Date		Time		Received by: (Signature)		Date		Time												
<div> <div>ENVIROTECH INC.</div> <div>5796 U.S. Highway 64</div> <div>Farmington, New Mexico 87401</div> <div>(505) 632-0615</div> </div>																						
Sample Receipt																						
<table border="1"> <tr> <td>Y</td> <td>N</td> <td>N/A</td> </tr> <tr> <td>Received Intact</td> <td>✓</td> <td></td> </tr> <tr> <td>Cool - Ice/Blue Ice</td> <td>✓</td> <td></td> </tr> </table>														Y	N	N/A	Received Intact	✓		Cool - Ice/Blue Ice	✓	
Y	N	N/A																				
Received Intact	✓																					
Cool - Ice/Blue Ice	✓																					