SUBMIT 1 COPY TO

# JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE

P.O. BOX 507
DULCE, NEW MEXICO 87528

PIT REMEDIATION AND CLOSURE REPORT

COM DIV. NATURAL RESOURCE DEPT AND OIL & GAS ADMINISTRATION

1000-beinevable,	practical extent property
Operator: AMOCO PRODUCTION COMPANY	Telephone: (505)326-9200
Address: 200 Amoco Court, Farmington,	NM 87401
Facility or Well Name: JI CARILLA APACHE	102 #SA
Location: Unit or Qtr/Qtr Sec_P Sec_Y_ T	26 N R4 W County R10 ARRIBA
Pit Type: Separator Dehydrator Other_	Blow
Land Type: RKP6E	
(Attach diagram)  Reference: wellhead X  Footage from reference:	
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)
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):O

Date Remediation Started:	Date Completed: 8-14-96
mediation Method: Excavation	Approx. cubic yards
sections) Landfarmed	
Other	
Remediation Location: Onsite (i.e. landfarmed onsite, name and location of offsite facility)	X Offsite
General Description of Remedial Act	ion: Excavation
Groundwater Encountered:	No Yes Depth
Final Pit: Sample location Closure Sampling:	see Attached Documents
(if multiple samples,	MULTIPUE SAMPLES
attach sample results and diagram of sample Sample depth	ss @ 8'
Il locations and depths)	8-14-96 Sample time
   Sample Results	
Soil: Benzer	e (ppm) <u><b>V</b>A</u> Water: Benzene (ppb)
Total I	Toluene (ppb)
Field	Headspace (ppm) 268 Ethylbenzene (ppb)
ТРН	(ppm) 770 Total Xylenes (ppb)
Groundwater Sample: Yes	No X (If yes, attach sample results)
I HEREBY CERTIFY THAT THE INF KNOWLEGE AND BELIEF	ORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY
DATE 8-20-96	PRINTED NAME Buddy D. Shaw
SIGNATURE BURLY D. SI	AND TITLE Environmental Coordinator
AFTER REVIEW OF THE PIT CLOS TO THE JICARILLA APACHE TRIBI	URE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE PIT CLOSURE ORDINANCE.
APPROVED: YES X NO	(REASON) Span WFortilizer & dlose
SIGNED: Lance Mann	M

CLIENT: AM	P.O. BOX	AGG ENGINEERING 87, BLOOMFIELD, (505) 632-1199	NM 87413	C.D.C. ND: 2261
	FIELD REPORT	: PIT CLOSURE	VERIFICATION	ON
QUAD/UNIT: P	SEC: 4 TWP: 26 N R	# 5A PIT TYPE:  NG: 4 W BM: MM CNT'  CONTRACTOR:	Y: RA ST: NM	DATE STARTED: 8-14-96 DATE FINISHED:  ENVIRONMENTAL REG
DISPOSAL FAC	ILITY: ON-		DIATION METHOI	LANDFARM
				//S°E FROM WELLHEAD.
		WATER SOURCE: >1000'  H CLOSURE STD: 5000 PPM	NEAREST SURFAC	E WATER:
		PIT DISPOSITION:	AR AND ONEO	
		W SILTY SAM -> SA		
SCALE O 5 12FT	5508' 1785	FIELD 418.1 CALCULATION: WEIGHT (g) mL. FREON DILL 10.0 20.0	JTION READING CALC	768
PIT I	PERIMETER	RESULTS	PIT	PROFILE
SUMFACE GAADIOUT	NI TO WELL	SAMPLE   FIELD HEADSPACE   PID (ppm)    1 NS - 9'	W180	13
TRAVEL NOTES:	CALLOUT: 8-14-9	0NSITE: _	8-14-96	1150 FORM REVISED 7/95

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:

South Side @ 8'

Jicarilla Apache 102 # 5A

Date Analyzed: Date Reported: 8-14-96 8-15-96

Project Location: Laboratory Number:

TPH #1785

Sample Matrix:

Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg	
Total Recoverable			
Petroleum Hydrocarbons	770	10	

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg

Duplicate TPH mg/kg

% \*Diff.

1,420

1,344

-----

5

\*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 - BJ407

R. E. O'Vell

Halson Vel 14/95



#### **VOLATILE AROMATIC HYDROCARBONS**

#### Blagg Engineering, Inc.

Project ID:

Jicarilla Apache 102-5A

Report Date:

08/19/96

Sample ID:

SS @ 8'

Date Sampled:

08/14/96

Lab ID:

4732

Date Received:

08/15/96

Sample Matrix:

Soil Cool Date Extracted:
Date Analyzed:

08/16/96 08/16/96

Preservative: Condition:

Intact

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
Benzene	ND	0.18
Toluene	0.48	0.18
Ethylbenzene	ND	0.18
m,p-Xylenes	2.79	0.35
o-Xylene	4.19	0.18

ND - Analyte not detected at the stated detection limit.

**Quality Control:** 

Surrogate

Percent Recovery 103 Acceptance Limits 81 -117%

Trifluorotoluene Bromofluorobenzen

111

74 -121%

Reference:

Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics;

Test Methods for Evaluating Solid Wastes, SW-846, United States

Environmental Protection Agency, Final Update I, July, 1992.

Comments:

Analyst

Review

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

Field TPH-Worksheet

Max Characters:

Project #: Client: Amoco

Date Analyzed: 8-14-96 Sample ID: South Side @ 8' Date Reported: 8-15-96 Project Location: Jicarilla Apache 102 # 5A Sample Matrix: Soil

Laboratory Number: TPH #1785

> Sample Weight: 10.00 grams Volume Freon: 20.00 mL

Dilution Factor: 1 (unitless) 384 mg/kg TPH Reading:

**TPH Result:** 768.0 mg/kg Reported TPH Result: 770.0 mg/kg Actual Detection Limit: 10.0 mg/kg 10 mg/kg Reported Detection Limit

% QA/QC: Original Duplicate TPH mg/kg Diff. TPH mg/kg 1420 1344 5

Comments:

Blow Pit - BJ407 Comments:

# 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: AMOCO PRODUCTION COMPANY	<b>Telephone:</b> (505)326-9200
Address: 200 Amoco Court, Farmington,	NM 87401
Facility or Well Name: JICKRIUA APACHE	102 # 54
Location: Unit or Qtr/Qtr Sec_P_Sec_Y_T_	26 NR 4 W County Rlo ARRIBA
Pit Type: Separator X Dehydrator Other	
Land Type: RANGE	
(Attach diagram)	25', width 25', depth 20'
Footage from reference:	
J	45 Degrees East NorthX
	X West South
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)
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):

Date Remediation St	arted:	Date Completed:	8-14-16
mediation Method:		approx. cubic yards	
_neck all appropriate			
sections)	Other		
Remediation Location (i.e. landfarmed onsite, name and location of offsite facility) General Description	V		
Groundwater Encoun	ntered: No X Yes	Depth	
Final Pit: Closure Sampling:	Sample location see Attached Doc		
(if multiple samples, attach sample results			
and diagram of sample locations and depths)	Sample depth		
		Sample unic	
11	Sample Results  Soil: Benzene (ppm) 1.76	Water: Benzene	e (ppb)
	Soil: Benzene (ppm) 1.16  Total BTEX (ppm) 5.1	_	
			nzene (ppb)
	Field Headspace (ppm) 304  TPH (ppm) 2500	CB @ 22' Total X	
Groundwater Sample	e: Yes No X (If ye	es, attach sample results	)
I HEREBY CERTIFY KNOWLEGE AND B	Y THAT THE INFORMATION ABOVE IS BELIEF	TRUE AND COMPLET	TE TO THE BEST OF MY
DATE&-	- 20 - 96 PRINTED NAME	Buddy D. Shaw	
SIGNATURE BLA	Oly Some AND TITLE	Environmental	Coordinator
AFTER REVIEW OF	F THE PIT CLOSURE INFORMATION, PI A APACHE TRIBE PIT CLOSURE ORDIN	T CLOSURE IS APPRO	
ll .	NO X (REASON) Condition		till Pas
SIGNED: X		8-21-96	

FORM REVISED 7/95

BLAGG ENGINEERING, INC. P.O. BOX 87, BLOOMFIELD, NM 87413 (505) 632-1199	
FIELD REPORT: PIT CLOSURE VERIFICATION: JI CAPICLA APACHE 102 #5A PIT TYPE: SEP.	DATE STARTED: 2-14-96 DATE FINISHED:
QUAD/UNIT: A SEC: 4 TWP: 26 N RNG: 4 W BM: NM CNTY: RA ST: NM  QTR/FOOTAGE: SE/SE CONTRACTOR: AML	ENVIRONMENTAL PEO
EXCAVATION APPROX. 25 FT. x 25 FT. x 20 FT. DEEP. CUBI  DISPOSAL FACILITY: ON SITE REMEDIATION METHOD  LAND USE: RANGE LEASE: #0900102 FORMA	TION: MV
FIELD NOTES & REMARKS: PIT LOCATED APPROXIMATELY 10 FEET NO DEPTH TO GROUNDWATER: 200 NEAREST WATER SOURCE: 2000 NEAREST SURFACE	45°W FROM WELLHEAD.
NMDCD RANKING SCORE: 0 NMDCD TPH CLOSURE STD: 5000 PPM	
SOIL AND EXCAVATION DESCRIPTION: PIT DISPOSITION:	a)
SOIL CONSISTS OF MOIST, BROWN, SILT SAM - NO STAW, LIGHT O	
SCALE  SCALE  O 10 20FT  PIT PERIMETER  FIELD 418.1 CALCULATIONS  FIELD 418.1 CALCULATIONS  WEIGHT (9) ml. FREON DILUTION READING CALCULATIONS  O 10 20FT  OVM  RESULTS  PIT	COM ITEMAL  D. ppm 520  PROFILE
SEMPLE FIELD HEADSPACE PID (ppm)  1 N5-15 2 ES-15 3 SS-15 2 CB-22 5 CB-22  LAB SAMPLES ES @15 BTEX - FAILED	20'
TRAVEL NOTES: CALLOUT: 8-14.96 ONSITE: 2.14.96	1240

Well Name:
Well Site location:
Pit Type:
Producing Formation:
Pit Category:
Horizonal Distance to Surface Water:

Vicinity Groundwater Depth:

Jicarilla Contract 102 #5A
Unit P, Sec. 4, T26N, R4W
Separator Pit
Mesa Verde
Non Vulnerable
> 1000 ft.
> 100 ft.

#### RISK ASSESSMENT (non-vulnerable area)

Pit remediation activities were terminated when trackhoe reached practical extent for abandoned pit (20 ft. below grade) and for safety concerns (underground piping and surface equipment).

No past or future threat to surface water or groundwater is likely based on the following considerations:

- 1. Groundwater levels located on or close to the well pad are estimated to be at a much greater depth below presumed shallow sandstone bedrock (based on informal site observation of adjacent sandstone outcrop).
- 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 0.50 miles northwest of the nearest vulnerable area boundary (Cottonwood Canyon wash).

(Refer to <u>Pine Lake Quadrangle, New Mexico - Rio Arriba County, 7.5 Minute Series (Topographic), Photorevised 1982, (vulnerable area boundary developed by Mr. William C. Olson, Hydrogeologist, Environmental Bureau, New Mexico Oil Conservation Division).</u>

Based upon the information given, we conclude that the subsurface vertical impact to groundwater is very unlikely. AMOCO requests pit closure approval on this location.

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:

Center Bottom @ 22'

Project Location: Laboratory Number: Jicarilla Apache 102 # 5A

TPH #1786

Project #:

Date Analyzed: Date Reported: 8-14-96 8-15-96

Sample Matrix:

Soil

Parameter	Result, mg/kg	Detection Limit, mg/kg
Total Recoverable		
Petroleum Hydrocarbons	2,500	100

ND = Not Detectable at stated detection limits.

QA/QC:

QA/QC Sample TPH mg/kg

Duplicate TPH mg/kg

% \*Diff.

1.420

1,344

5

Method:

Modified Method 418.1, Petroleum Hydrocarbons, Total

Recoverable, Chemical Analysis of Water and Waste,

USEPA Storet No.4551, 1978

Comments:

Separator Pit - BJ407

R. E. O'Mell

Allon Vel 1/1/96
Review

<sup>\*</sup>Administrative Acceptance limits set at 30%.



#### **VOLATILE AROMATIC HYDROCARBONS**

#### Blagg Engineering, Inc.

Project ID:

Jicarilla Apache 102-5A

Report Date: 08/19/96

Sample ID: Lab ID:

ES @ 15'

Date Sampled: 08/14/96

Sample Matrix:

4733

Date Received: 08/15/96

Preservative:

Soil Cool Date Extracted: 08/16/96 Date Analyzed: 08/16/96

Condition: Intact

Target Analyte	Concentration (mg/kg)	Detection Limit (mg/kg)
Benzene	1.76	0.19
Toluene	86.4	1.92
Ethylbenzene	37.1	1.92
m,p-Xylenes	330	3.83
o-Xylene	88.8	1.92

ND - Analyte not detected at the stated detection limit.

**Quality Control:** 

Surrogate Trifluorotoluene Percent Recovery 103

Acceptance Limits 81 -117%

Bromofluorobenzen

112

74 -121%

Till.

Reference:

Method 5030, Purge and Trap; Method 8020, Aromatic Volatile Organics;

Test Methods for Evaluating Solid Wastes, SW-846, United States

Environmental Protection Agency, Final Update I, July, 1992.

**Comments:** 

Analyst

Review

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

Field TPH-Worksheet

Client: Amoco Project #:

Sample ID: Center Bottom @ 22' Date Analyzed: 8-14-96
Project Location: Jicarilla Apache 102 # 5A Date Reported: 8-15-96
Laboratory Number: TPH #1786 Sample Matrix: Soil

Sample Weight: 10.00 grams Volume Freon: 20.00 mL

Dilution Factor: 10 (unitless) TPH Reading: 126 mg/kg

TPH Result: 2520.0 mg/kg
Reported TPH Result: 2500.0 mg/kg
Actual Detection Limit: 100.0 mg/kg
Reported Detection Limit 100 mg/kg

Comments: Separator Pit - BJ407

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Phone: 632-1199 Fax:	supous (d	(mod. 80	BET M/X	0S.1 \ 200	OG \ sebi	954 / 854	M/OD bio	anc uyar		ebecitγ):	pecify): l Coliforn		NO2- / I			(IE) q.	(1101) "	
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Sample ID Date Time Matrix Lab ID								TCL		edS								
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ES@ 15' 8-14 (300 SOIL			7															SEPARATUR PIT
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BJ407

# 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**

	<b>Telephone:</b> (505) 326-9200
Operator: AMOCO PRODUCTION COMPANY	
Address: 200 Amoco Court, Farmington,	NM 87401
Facility or Well Name:	HE # 102 - 5A
Location: Unit or Qtr/Qtr Sec Sec4T_2	-6N R YW County RIO ARRIBA
Land Type: LANGE	1 /08
Date Remediation Started:8/14/96	Date Completed:7   15   19 %
Remediation Method: Landfarmed X	Approx. cubic yards 775
Composted	
Other	
pth To Groundwater: (pts.)	Final Closure Sampling:
Distance to an Ephemeral Stream (pts.)	Sampling Date:
Distance to Nearest Lake, Playa, or Watering Pond (pts.)	Sample Results:
	Field Headspace (ppin) O.O
Wellhead Protection Area: (pts.)	TPH (ppm) <u>33.4</u> Method <u>8015</u>
Distance To SurfaceWater: (pts.)	Other
RANKING SCORE (TOTAL POINTS):	
I HEREBY CERTIFY THAT THE INFORMATION ABOV	E IS TRUE AND COMPLETE TO THE BEST OF MY
KNOWLEGE AND BELIEF	
DATE $\frac{7/15/98}{}$ PRINTED	NAME Buddy D. Shaw
SIGNATURE Bully S. Shaw	AND TITLE Environmental Coordinator
AFTER REVIEW OF THE SOIL REMEDIATION INFORM	MATION, ON-SITE REMEDIATION IS APPROVED IN
APPROVED: YES NO (REASON) U	
$\cdot$	
SIGNED: Lac Man DAT	E: <u> </u>

P.O. BOX 87, BLO	NEERING, INC. OMFIELD, NM 87413 632-1199	C.D.C. ND: 6096
FIELD REPORT: LANDFARM/COMI	POST PILE CLOSURE	
LOCATION: NAME: JICA APACHE 102 WELL #: SE	A PITS: SEP., BLOW	DATE STARTED: 7/14/98
QUAD/UNIT: P SEC: 4 TWP: ZEN RNG: 4W	PM: NM CNTY: RA ST:NM	ENVIRONMENTAL SPECIALIST:
QTR/FOOTAGE: SE/4 SE/4 CONTRACTOR:	1.42	SPECIALIST:
SOIL REMEDIATION:	_ APPROX. CUBIC Y	ADDACE: 775
REMEDIATION SYSTEM: LANDFARM	LIFT DEPTH (ft):	,
LAND USE: LANGE	_ LIFT DEPTH (IC):	
FIELD NOTES & REMARKS:  DEPTH TO GROUNDWATER: >100' NEAREST WATER SOURCE	, >1000 NEAREST SURFAC	E WATER:
NMOCD RANKING SCORE: O NMOCD TPH CLOSURE STI	SOO PPM	8114(96
NMOCD RANKING SCORE: NMOCD IPH CLUSURE STE	BROWN SAND TO SILTY SAND UG DEPTUS RANGE FROM	I' TO Z', NO
SOIL CONSISTED OF MUSTLY DK. YELL. E COHESIVE SUGHTLY MOIST, FIRM, SAMPLIN OISCOLORATION OR HE DOOR OBSERVED DISCOLORATION OR HE DOOR OBSERVED	e ANY OF THE SAMPLE	E PTS. OR LANDFARM
AKER, COLLECTED 3 P). COM. COM.	parte you by process	
(CLOSED)		
FIELD 418 SAMP. TIME SAMPLE I.D. LAB No: WEIGHT	3.1 CALCULATIONS  (a) ml. FREON DILUTION READIN	IG CALC. ppm
SAWI : TIME SAWI EE No. D.C. 13	(37	
SKETCH/SAMPLE LOCATIONS	_	
		1
	othe profitmo	LAB SAMPLES
186	OVM RESULTS  SAMPLE FIELD HEADSPACE SAMPLE PID (ppm) ID	
7 3 3	1D PID (ppm) ID  LF-1 0.0 LF-1	(8)5) 0745 33.4
45' 3		
9		
IT DIE NOATH LF-1		
ANDFARM FROM WELL HEAD SAMPLE FT.		·
PERIMETE? DESIGNATION		
	SCALE 0 FT	
TRAVEL NOTES:	ONSITE: 7/14/98	
CALLOUT: NA	ONORE. ////	



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

Client:	Blagg / AMOCO	Project #:	04034-10
Sample ID:	LF - 1	Date Reported:	07-15-98
Laboratory Number:	D613	Date Sampled:	07-14-98
Chain of Custody No:	6096	Date Received:	07-14-98
Sample Matrix:	Soil	Date Extracted:	07-14-98
Preservative:	Cool	Date Analyzed:	07-14-98
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.7	0.2
Diesel Range (C10 - C28)	32.7	0.1
Total Petroleum Hydrocarbons	33.4	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 Apache #102 - 5A Landfarm. 5 Pt. Composite.

Allen L. Queen

Review Stacy W Sendler

	<u>-</u>	Cool - Ice/Blue Ice		(505) 632-0615	(505)				
	1	Received Intact	64 0 87401	5796 U.S. Highway 64 าington, New Mexico 87	5796 U.S. Highway 64 Farmington, New Mexico 87401				
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2005		. v.c36/cv.	71/(80		Sample Matrix	Lab Number	Sample Time	Sample Date	Sample No./
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				う —	LANDFARK	Project Location			Client / Project Name