

OK

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

SUBMIT COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

PIT REMEDIATION AND CLOSURE REPORT

APPROVED

Operator: ELM RIDGE RESOURCES Telephone: (505) 326-7099

Address: 312 W. LA PLATA STREET, FARMINGTON, NM 87401

Facility or Well Name: JICARILLA APACHE F #10

Location: Unit or Qtr/Qtr Sec C Sec 16 T 25N R 5W County RIO ARriba

Pit Type: Separator ☐ Dehydrator ☒ Other COMPRESSOR

Land Type: _____

Pit Location: Pit dimensions: length 20, width 15, depth 20 w/ramp
(Attach diagram)

Reference: wellhead ☒ other _____

Footage from reference: 100' NW

Direction from reference: _____ Degrees _____ East North ☒
_____ of _____
☒ 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) <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>20</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): 20

Date Remediation Started: BRET CUMMINGS Date Completed: 4/16/98

Remediation Method: Excavation X Approx. cubic yards 222 CY

(Check all appropriate sections)

Landfirmed X

Insitu Bioremediation _____

Other _____

Remediation Location: Onsite X Offsite _____

(i.e. landfirmed onsite, name and location of offsite facility)

General Description of Remedial Action: REMOVED CONTAMINATED SOIL, SPREAD ON LOCATION IN SOIL FARM

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location Pit Bottom - CENTER

4 BANKS

Closure Sampling:

(if multiple samples, attach sample results

SANDSTONE AT 12' DEEP

GAS 0.700 PPM = ND

and diagram of sample locations and depths)

Sample depth 12'

DIE ND

Sample date 4/16/98

Sample time 10:38

PID = 11.0

Sample Results

Soil: Benzene (ppm) ND

Water: Benzene (ppb) N/A

Total BTEX (ppm) 1.99

Toluene (ppb) N/A

Field Headspace (ppm) 499

Ethylbenzene (ppb) N/A

TPH (ppm) GAS 41.0

Total Xylenes (ppb) N/A

DIE 180

Groundwater 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 4/29/98 PRINTED NAME SHAWN ADAMS

SIGNATURE Shawn Adams AND TITLE ENV. CONSULTANT

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: Kate C. Marshall DATE: 4-29-98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 24-Apr-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla Apache "F" W10 DK
Work Order:	9804021	Client Sample ID:	JF10-DK 100; Wall
Lab ID:	9804021-01A	Matrix:	SOIL
Project:	Jicarilla Apache "F" W10 DK	Collection Date:	4/16/98 10:32:00 AM
		COC Record:	4333

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	50		mg/Kg	1	4/23/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	700	180		µg/Kg	1	4/22/98
Surr: Trifluorotoluene	105.3	70-130		%REC	1	4/22/98

= 0.700 P/M CONVERSION

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

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OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 24-Apr-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla Apache "F" W10 DK
Work Order:	9804021	Client Sample ID:	JF10-DK 101; Floor
Lab ID:	9804021-02A	Matrix:	SOIL
Project:	Jicarilla Apache "F" W10 DK	Collection Date:	4/16/98 10:38:00 AM
		COC Record:	4333

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	180	50		mg/Kg	1	4/23/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	41000	4500		µg/Kg	25	4/22/98
Surr: Trifluorotoluene	119.8	70-130		%REC	25	4/22/98

= 41.0 PPM conversion

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Apr-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla Apache "F" W10 DK
Work Order:	9804021	Client Sample ID:	JF10-DK 101; Floor
Lab ID:	9804021-02A	Matrix:	SOIL
Project:	Jicarilla Apache "F" W10 DK	Collection Date:	4/16/98 10:38:00 AM
		COC Record:	4333

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
BTEX		SW8020A		Analyst: DC		
Benzene	ND	50		µg/Kg	50	4/24/98
Toluene	ND	100		µg/Kg	50	4/24/98
Ethylbenzene	270	50		µg/Kg	50	4/24/98
m,p-Xylene	1400	100		µg/Kg	50	4/24/98
o-Xylene	320	50		µg/Kg	50	4/24/98
Surr: Fluorobenzene	101.8	70-130		%REC	50	4/24/98
Surr: 1,4-Difluorobenzene	102.8	70-130		%REC	50	4/24/98
Surr: 4-Bromochlorobenzene	99.0	70-130		%REC	50	4/24/98

0.270 PPM CONVERSION
1.40 PPM CONVERSION
0.320 PPM CONVERSION

1.99 TOTAL BTEX

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R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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SUBMIT COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

APPROVED

Operator: ELM-RIDGE RESOURCES Telephone: (505) 326-7099
Address: 312 W. LAPATA STREET, FARMINGTON, NM 87401
Facility or Well Name: JICARILLA APACHE "F" WELL #10 DK LANDFARM
Location: Unit or Qtr/Qtr Sec C Sec 16 T 25N R 5W County RIO ARriba
Land Type: _____

Date Remediation Started: BRETT CUMMINS Date Completed: 4/16/98
Remediation Method: Landfirmed X Approx. cubic yards 222
Composted _____
Other _____

Depth To Groundwater: (pts.) 0
Distance to an Ephemeral Stream (pts.) 0
Distance to Nearest Lake, Playa, or Watering Pond (pts.) 0
Wellhead Protection Area: (pts.) 20
Distance To Surface Water: (pts.) 0

Final Closure Sampling:

Sampling Date: 4/16/98 Time: 10:45

Sample Results:

Field Headspace (ppm) 4.0
TPH (ppm) GAS - NO Method 8015M
DIE - NO
Other _____

RANKING SCORE (TOTAL POINTS): 20

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 12/22/98 PRINTED NAME SHAWN ADAMS
SIGNATURE [Signature] AND TITLE ENV. CONSULTANT

AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON) May be used as backfill, if needed.

SIGNED: Karena L. Callado DATE: 22 DEC 98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Apr-98

Client: Contract Environmental Services, Inc.
Work Order: 9804021
Lab ID: 9804021-03A **Matrix:** SOIL
Project: Jicarilla Apache "F" W10 DK

Client Sample Info: Jicarilla Apache "F" W10 DK
Client Sample ID: JF10-DK 102; Landfarm
Collection Date: 4/16/98 10:45:00 AM
COC Record: 4333

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	50		mg/Kg	1	4/23/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	180		µg/Kg	1	4/22/98
Surr: Trifluorotoluene	100.1	70-130		%REC	1	4/22/98

Qualifiers: PQL - Practical Quantitation Limit
ND - Not Detected at Practical Quantitation Limit
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S - Spike Recovery outside accepted recovery limits
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E - Value above quantitation range
Surr: - Surrogate

1 of 1

CHAIN OF CUSTODY RECORD

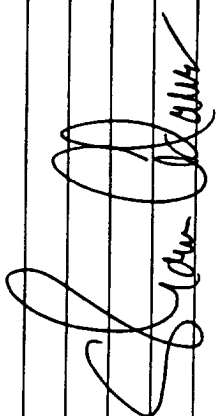
4333

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Date: 4/16/98

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Purchase Order No.:		Job No.	
Name	Shawn Adams		
Company	Contract Envi		
Address	Rd Box 3276		
City, State, Zip	Farmington nm. 87499		
Sampling Location: Jicarilla Apache "F" WIO DK			
Sampler: James K. Kirby			

	SAMPLE IDENTIFICATION			SAMPLE		MATRIX	PRES.
	DATE	TIME	DATE	TIME			
JF10-DK 100 WALL	4/16/98	10:32	Soil	N/A			
JF10-DK 101 Floor	4/16/98	10:38	Soil	N/A			
JF10-DK 102 Land Fa-m	4/16/98	10:45	Soil	N/A			
			Soil				
							

Relinquished by:	Date/Time	Received by:	Date/Time
	4/17/98	[Signature]	4/17/98
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:	10 Working Days	Special Instructions:

Authorized by:	Date
SAA [Signature]	4/17

(Client Signature Must Accompany Request)

CONTRACT ENVIRONMENTAL

DATE 4/16/98 TIME STARTED 10:00 TIME FINISHED 11:00
SITE NAME Jicarilla Apache "F" well 10 OK

PIT SIZE AT START x x PIT SIZE WHEN FINISHED x x

P.I.D READINGS

Comp

NORTH WALL #1 _____ #2 _____ #3 _____ FINALE TIME _____

SOUTH WALL #1 _____ #2 _____ #3 _____ FINALE TIME _____

EAST WALL #1 _____ #2 _____ #3 _____ FINALE TIME _____

WEST WALL #1 _____ #2 _____ #3 _____ FINALE TIME _____

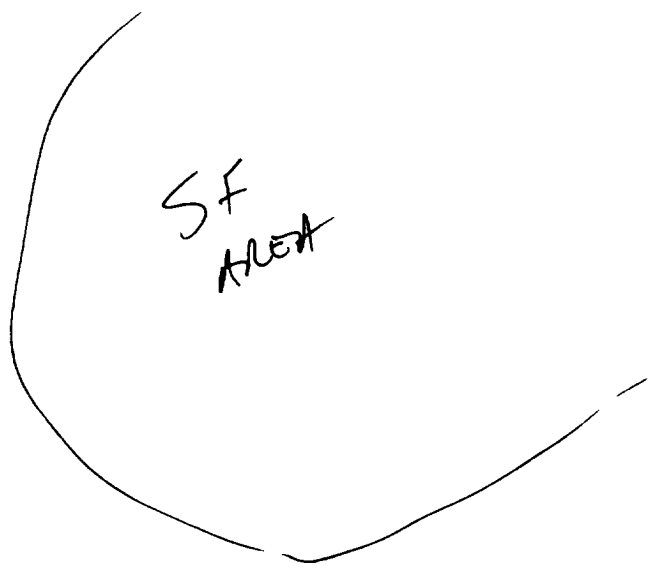
WALL COMPOSITE #1 11.0 #2 _____ #3 _____ FINALE TIME 1032

FLOOR #1 499.0 #2 _____ #3 _____ FINALE TIME 1038

LAND FARM 4.0 SAMPLE TIME 1045

SPOIL PILE _____ SAMPLE TIME _____

REMARKS: sand stone At 12'



@ WHEAT

