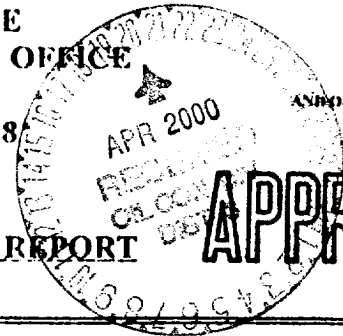


LT from will

OK

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

SUBMIT COPY 1
NATURAL RESOURCE DEPT
AIR, OIL & GAS ADMINISTRATION



WELL REMEDIATION AND CLOSURE REPORT

Operator: ELM RIDGE RESOURCES Telephone: 326-7099
Address: 312 W. LA PLATA STREET, FARMINGTON, NM 87401
Facility or Well Name: MARTIN WHITTAKER # 28
Location: Unit or Qtr/Qtr Sec NE NW Sec 15 T23N R4W County Rio ARriba
Pit Type: Separator X Dehydrator Other
Land Type:

Pit Location: Pit dimensions: length 28, width 28, depth 12
(Attach diagram)
Reference: wellhead X, other
Footage from reference:
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) 0

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) 10

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) 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 100 feet (20 points)
100 feet to 1000 feet (10 points)
Greater than 1000 feet (0 points) 0

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: 8/4/98 Date Completed: 8/5/98

Remediation Method: Excavation X Approx. cubic yards 350 cy

(Check all appropriate sections) Landfarmed X Insitu Bioremediation _____

Other _____

Remediation Location: Onsite X Offsite _____

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

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

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location CENTER Pit Bottom

4 BANKS N, S, E, W

Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) (ROCK AT 12')

GAS NO PPM

Sample depth 12'

DI E 34 PPM

Sample date 8/5/98 Sample time 1:50 P

by Method 8015M

PID 8.9 PPM

Sample Results

Soil: Benzene (ppm) N/A Water: Benzene (ppb) N/A

Total BTEX (ppm) N/A Toluene (ppb) N/A

Field Headspace (ppm) 214 Ethylbenzene (ppb) N/A

TPH 8015M (ppm) GAS 4.2 PPM Total Xylenes (ppb) N/A
DI E 560 PPM

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 11/22/98 PRINTED NAME SHAWN ADAMS

SIGNATURE [Signature] 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) R.A. Attached

SIGNED: [Signature] DATE: 11-25-98



ON SITE
TECHNOLOGIES, LTD.

ANALYTICAL REPORT

Date: 20-Aug-98

Client Sample Info: Martin Whittaker #28

Client Sample ID: MW28-500

Collection Date: 8/5/98 1:50:00 PM

COC Record: 4393

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
-----------	--------	-----	------	-------	----	---------------

SW8015

560

25

mg/Kg

1

Analyst: HR
8/17/98

SW8015

4.2

0.9

mg/Kg

5

Analyst: DC
8/14/98

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

P.O. BOX 2606 • FARMINGTON, NM 87499

1 of 1

- TECHNOLOGY-BASED INDUSTRY WITH THE P...

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 20-Aug-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Whittaker #28
Work Order:	9808018	Client Sample ID:	MW28-501
Lab ID:	9808018-02A	Matrix:	SOIL
Project:	Martin Whittaker #28	Collection Date:	8/5/98 1:55:00 PM
		COC Record:	4393

4 Waus

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	34	25		mg/Kg	1	Analyst: HR 8/17/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	Analyst: DC 8/14/98

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

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1 of 1

CHAIN OF CUSTODY RECORD

ON SITE
TECHNOLOGIES, LTD.

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

Date: 2/14/98

Purchase Order No.:		Job No.		Name		Title	
SEND INVOICE TO		Company		Company			
Address		Dept.		Mailing Address			
City, State, Zip				City, State, Zip			
Sampling Location:		City, State, Zip		Telephone No.		Telefax No.	
Sampler:		ANALYSIS REQUESTED					
REPORT TO		RESULTS TO		Number of Containers			
SAMPLE IDENTIFICATION		DATE		TIME		PRES.	
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CONTRACT ENVIRONMENTAL

Elm Ridge

Daily Site Sheet

Site Name: No 28 Martin W. Harker

Date: 8-4-98

Time Started: 7:45

Time Finished: 11:30 on 8-5-98

Pit starting size: 25X25X5

Pit size when finished: 28X28X12

Land farm size: _____

Distance to wash > or < 100': < 100'

Distance to lake or pond: > 1000'

Distance to private or domestic water source > or < 1000': > 1000'

P.I.D. Readings

North wall: _____

South wall: _____

East wall: _____

West wall: _____

Land farm: _____

Equipment used: P.S.D. PID BACKHOE JAMES KIRBY LINDEN

Remarks: Begin Renovating Pit Vertical Sample APPROX. EVERY 2' HIT BEDROCK
AT APPROX 12' Took Horizontal Sample N wall 140 PPM E wall 40 PPM
Bottom Sample 214 PPM 14oz glass jar 4 wall Comp 8.9 PPM 14oz jar

Site Diagram

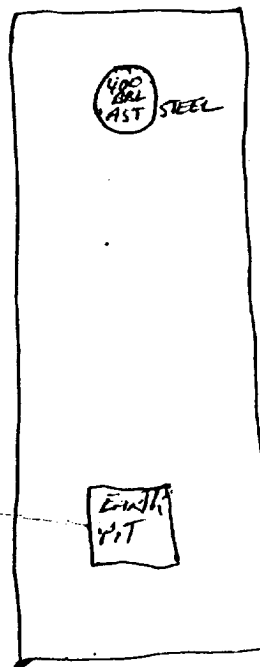
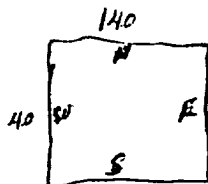
Horizontal Samples

P.J.
PAD
ONLY

VERT
Sample 1 3' DEPTH 541 PPM
Sample 2 4 1/2' DEPTH 319 PPM
" 3 6' " 608 PPM
" 4 8' " 283 PPM
" 5 10' " 224 PPM

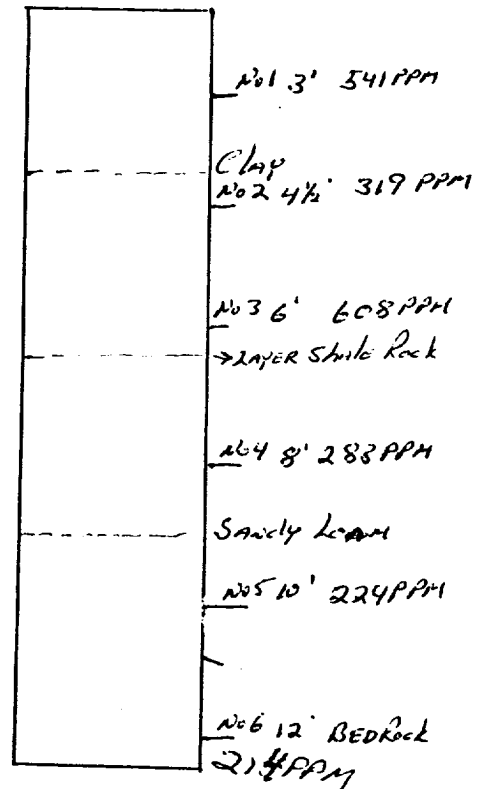
BELL
HEAD

Soil Farm

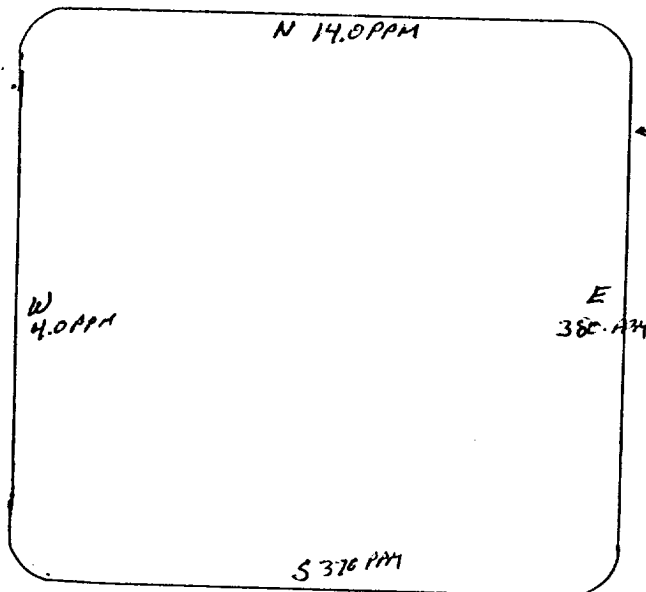


INTER NO SEP

VERT. Samples



Sample No	Description	PPM (PPM)
1	N Bank 14.0	14.0
2	W Bank	4.0
3	E Bank	380. PPM
4	E I Bank	2.4. PPM
5	S Bank	370. PPM
6	S I Bank	2.9 PPM



N 1 14.0 PPM
W 1 4.0 PPM
2.4 PPM

3' ↑
↓ 3'
2.9 PPM

4 Wall Comp 8.9 PPM

Elm Ridge Resources

Risk Analysis

Prepared by:

Contract Environmental Services, Inc.

Prepared for:

Oil Conservation Division - District III

Jicarilla Apache Tribe - EPO

Date: 11/23/98

Location: Martin Whittaker # 28 - Separator Pit

NE / NW, Sec 15, T23N, R4W

Lease Number:

Resources

Ground Water: 100 feet +

Closest Surface Water: No down gradient perennial bodies within 1000 feet (visual inspection of the area)

Water Sources: No private water source is located within 1000 feet of this site.

Risk Management

Natural Barriers: Natural soil permeability is one natural barrier that will protect ground water from site contamination.

Additional Investigation: This earthen pit had sandstone bedrock at 12' of depth. Field-testing and laboratory analysis was done on this earthen pit. The results of this analysis and testing are shown in the following pages. All data is supported with lab result sheets and field data sheets found in this closure package.

Risk Analysis

Contract Environmental Services, Inc.
Post Office Box 3376
Farmington, New Mexico 87499

Additional
Investigation: (continued)

Table 1. Field and laboratory results summary.

Sample				
	Depth	Field Headspace Results	Laboratory Results	Remarks
	(feet)	(PPM)	(PPM)	
MW28-500	12'	214	Gas = 4.2 Die = 560	Pit Bottom
MW28-501	12'	8.9	Gas = ND Die = 34	4 Banks NSEW

Risk

The following table and conclusion summarize the risk this contamination sources poses to the ground water.

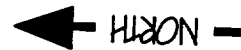
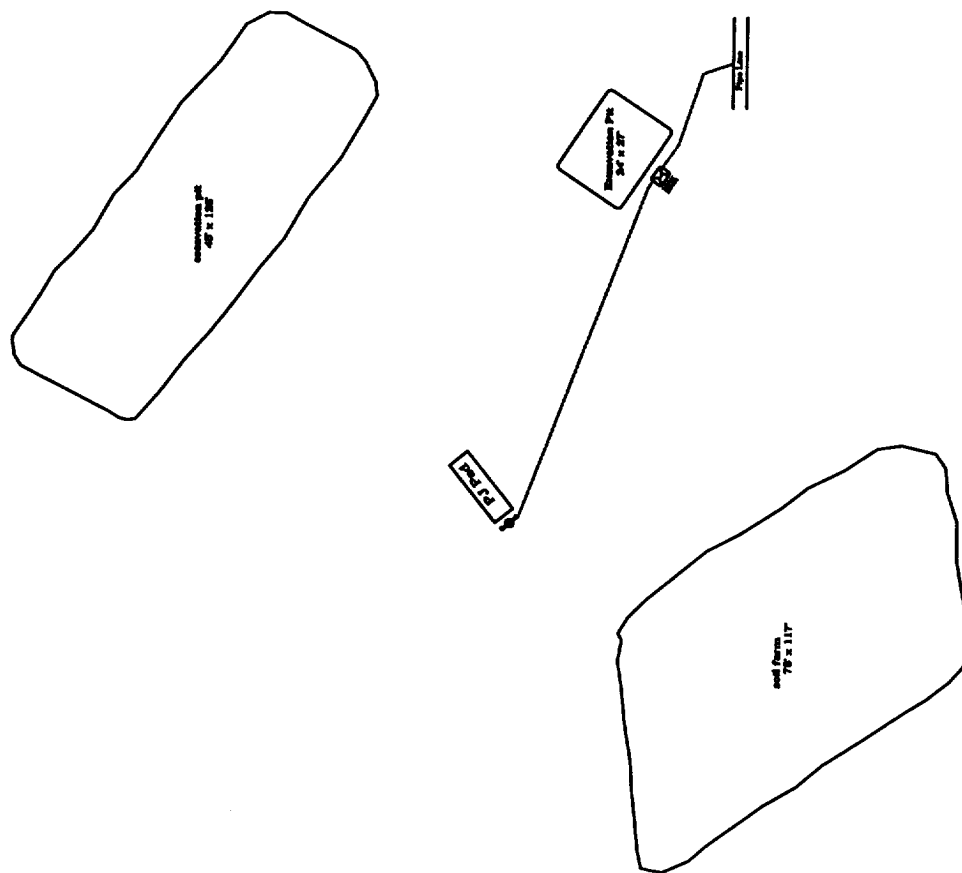
Table 2. Total risk table.

RISK	CHOICE
Extremely Low	X
Low	
Moderate	
High	

Risk Analysis

Contract Environmental Services, Inc.
Post Office Box 3376
Farmington, New Mexico 87499

The ground water under this site is at almost no danger of being impacted by contamination from this site. From the low laboratory and field-test results and the restrictive geologic soil barriers it is concluded that the risk of resource contamination is extremely low.



NOTE: CONCENTRATIONS WERE DETERMINED AND APPROXIMATELY
FOR QUALITATIVE PURPOSES ONLY. ACTUAL VALUES
MAY VARY AND SHOULD BE USED PRIOR TO EXCAVATION BY
A QUALIFIED PROFESSIONAL.

LEGEND:
— G
— WATER
— GS
— GV Water
— Gw/GV Water

Field Data Recorded: _____
Reviewed: _____
Drawn: _____

Elm Ridge Resources Martin Whittaker #28

NE/1W Sec. 15, T23N, R4W

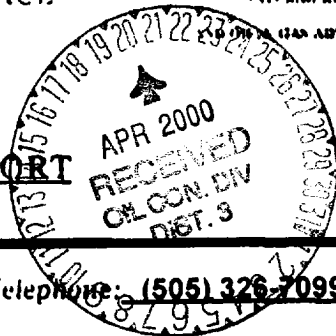
Rio Arriba County, New Mexico

Contract Environmental Services, Inc.
505-325-1198
Farmington, New Mexico

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

SUBMIT TO
NATIONAL BUREAU OF
LAND ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT



Operator: Elm Ridge Resources Telephone: (505) 326-7099

Address: 312 W La Plata, Farmington NM 87401

Facility or Well Name: Martin Whittaker #28

Location: Unit or Qtr/Sec NE/1/4 Sec 15 T 23N R 4W County Rio Arriba

Land Type: Jicarilla Range

Date Remediation Started: 8-4-98 Date Completed: 8-25-99

Remediation Method: Landfirmed X Approx. cubic yards 366

Composted ---

Other ---

Depth To Groundwater: (pts.) 0

Distance to an Ephemeral Stream (pts.) 10

Distance to Nearest Lake, Playa, or Watering Pond (pts.) 0

Wellhead Protection Area: (pts.) 0

Distance To Surface Water: (pts.) 0

Final Closure Sampling:

Sampling Date: 8-25-99 Time: 1138

Sample Results:

Field Headspace (ppm) 1.8

TPH (ppm) 600 NO Method 8015
000 NO

Other ---

RANKING SCORE (TOTAL POINTS): 10

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

DATE 9-23-99 PRINTED NAME Bill Schaaphok

SIGNATURE [Signature] AND TITLE Environmental Specialist

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

APPROVED: YES --- NO --- (REASON) ---

SIGNED: --- DATE: ---

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 16-Sep-99

Client:	Elm Ridge Resources, Inc.	Client Sample Info:	Elm Ridge Landfarms
Work Order:	9908055	Client Sample ID:	MW#28 Landfarm 2-1
Lab ID:	9908055-09A	Matrix:	SOIL
Project:	Elm Ridge Landfarms	Collection Date:	08/25/1999 11:38:00 AM
		COC Record:	10252

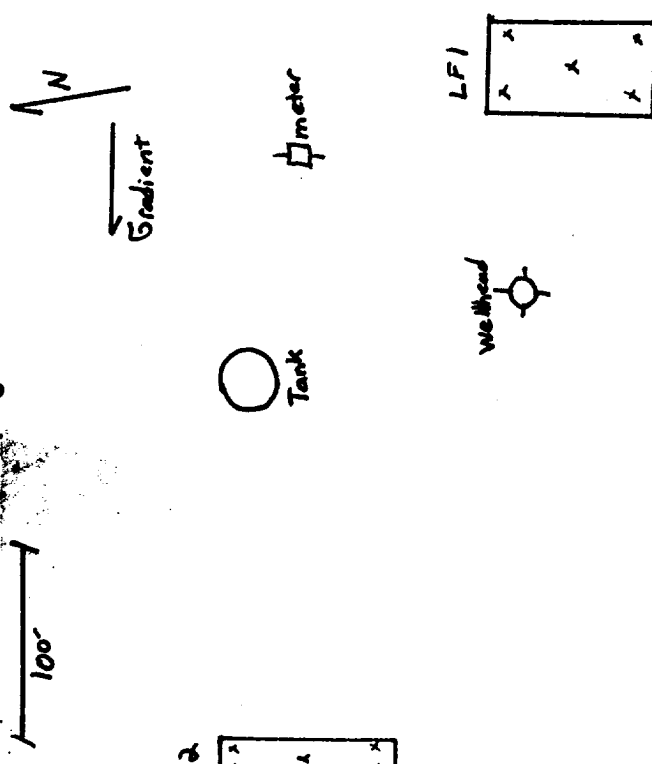
Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	09/02/1999
GASOLINE RANGE ORGANICS		SW8015B				Analyst: DM
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	08/31/1999

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

1 of 1

Location : <u>Martin Whittaker # 28</u> Quad : <u>NE/NW</u> Section : <u>15</u> Township : <u>23N</u> Range : <u>4W</u> Pit : <u>Separator</u> Reference : LF1 90' x 50' x 1' Size : LF2 70' x 30' x 1' Yds : <u>366</u> <u>2-5</u> - Point Composite		Overview of Landfarm and Sampling :  Comments : <u>Sandy clay, gray, damp, covered with vegetation, sample taken at 8" to 10"</u> Environmental Specialist :
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