

OK -

SUBMIT COPY TO
NATURAL RESOURCE DEPT
AND OIL & GAS ADMINISTRATION

APPROVED

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 8/27/98 Date Completed: 8/28/98

Remediation Method: Excavation X Approx. cubic yards 250 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
EXCAVATOR, SPREAD ON LOCATION IN SOIL FARM

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location Pit Bottoms CENTER 4 BANKS N,S,E,W
Closure Sampling: GAS ND PPM
(if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 19' DIE ND PPM
Sample date 8/28/98 Sample time 12:40 PM METHOD 8015M
PI0 = 9.4 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) 16.9 Ethylbenzene (ppb) N/A

TPH 8015M (ppm) GAS ND PPM Total Xylenes (ppb) N/A
DIE 3100 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 12/1/98 PRINTED NAME SHAWN ADAMS

SIGNATURE [Signature] AND TITLE ENV. CONSULTANT

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE WITH THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON) _____

SIGNED: [Signature] DATE: 12-7-98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 10-Sep-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Whittaker #17
Work Order:	9808063	Client Sample ID:	MW-17-400
Lab ID:	9808063-01A	Matrix:	SOIL
Project:	Martin Wittaker	Collection Date:	8/28/98 12:40:00 PM
		COC Record:	4392

Pit floor

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	3100	25		mg/Kg	1	9/8/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	8/31/98

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

P.O. BOX 2606 • FARMINGTON, NM 87499

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 10-Sep-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Whittaker #17
Work Order:	9808063	Client Sample ID:	MW17-401
Lab ID:	9808063-02A	Matrix:	SOIL
Project:	Martin Wittaker	Collection Date:	8/28/98 12:45:00 PM
		COC Record:	4392

4 wall

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	9/8/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	8/31/98

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Surr: - Surrogate

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CONTRACT ENVIRONMENTAL

Daily Site Sheet

Site Name: MARTIN WH. HALEY No 17

Date: 8-27-98

Time Started: 2:45

Time Finished: _____

Pit starting size: 12x15x4

Pit size when finished: 24x15x19

Land farm size: _____

Distance to wash > or < 100': _____

Distance to lake or pond: _____

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

P.I.D. Readings

North wall: _____

South wall: _____

East wall: _____

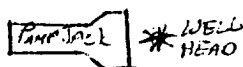
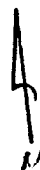
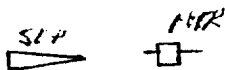
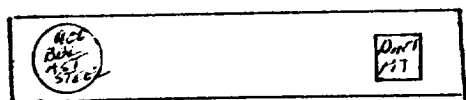
West wall: _____

Land farm: _____

Equipment used: P.S.D P10 EXCAVATOR JIM KIRBY LANN WILSON

Remarks: _____

Site Diagram



VERT Samples



5' Sandy loam 256 PPM

10 Sandy loam - 113 PPM

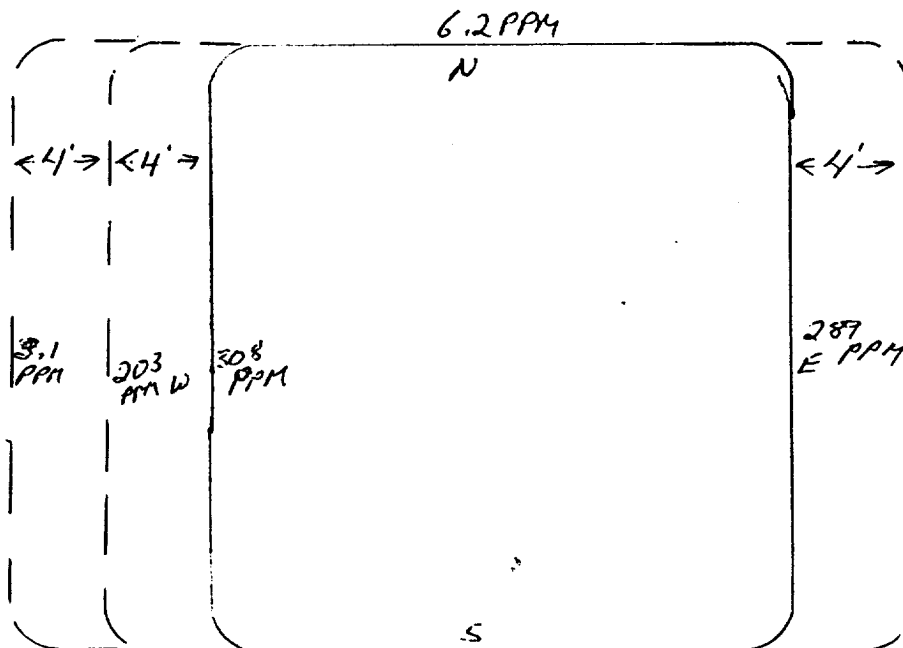
15' Sandy Clay 91.9 PPM

17' Dark Grey Sand 318 PPM

19' Clean Sand 16.9 PPM

PIT Floor NW 17-400 16.9 PPM

4 Wall Corp MW 17-401 9.4 PPM



CHAIN OF CUSTODY RECORD

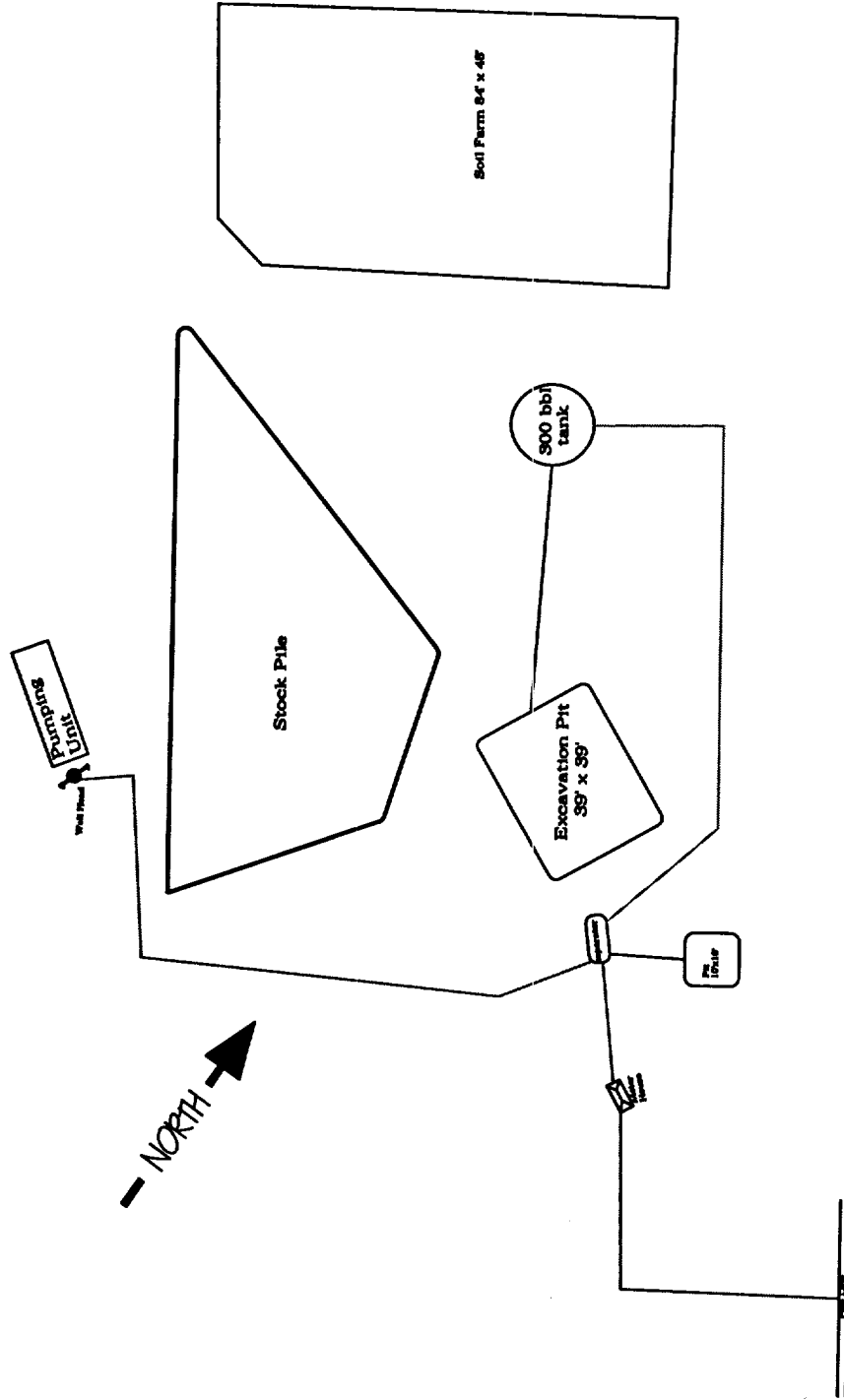


657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Date: 8/22/98

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Purchase Order No.:		Job No.	
Name: Shawn Williams		Title:	
Company: Contract Farm.		Company:	
Address: P.O. Box 3776		Mailing Address: 601 N. 1st St.	
City, State, Zip: Farmington, NM		City, State, Zip:	
Sampling Location: Martin Whiteaker #17, New Line chip #1,		Telephone No. (505) 325-1198	
New Line chip #2		Telex No.:	
Sampler: 1 R/W		ANALYSIS REQUESTED	
SEND INVOICE TO		RESULTS TO	
SAMPLE IDENTIFICATION		Number of Containers	
DATE	TIME	MATRIX	PRES.
8/22/98	12:40	Soil	N/A
8/22/98	12:45	Soil	N/A
8/22/98	13:50	Soil	N/A
8/22/98	13:55	Soil	N/A
8/22/98	14:40	Soil	N/A
8/22/98	17:45	Soil	N/A
LAB ID		LAB ID	
Relinquished by: [Signature]		Received by: [Signature]	
Relinquished by:		Received by:	
Relinquished by:		Received by:	
Method of Shipment:		Rush	
Authorized by: [Signature]		Date: 8/22/98	
(Client Signature Must Accompany Request)		Date: 8/22/98	
Distribution: White - On Site		Yellow - LAB	
Pink - Sampler		Goldenrod - Client	



1/200:	OL
	WAZ
	OS
	OU Water
	OU Water

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

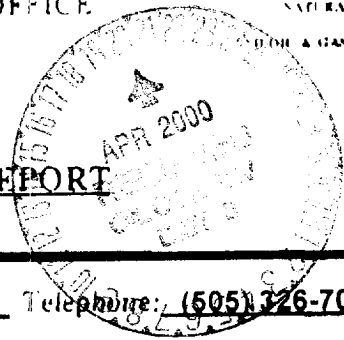
Elm Ridge Resources
Martin Whittaker 17
Rio Arriba County, NM
NE/SE Sec. 8, T23N, R4W

Field Data Recorded : _____ Date: _____
Reviewed : _____ Date: _____
Drawn : _____ Date: _____

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

SUBMIT COPY TO
NATURAL RESOURCES DEPT.
OIL & GAS 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 #17

Location: Unit or Qtr/Qtr Sec NE/SE Sec 08 T 23N R 4W County Rio Arriba

Land Type: Jicarilla Range

Date Remediation Started: 8-27-98 Date Completed: 8-24-99

Remediation Method: Landfarmed X Approx. cubic yards 293
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.) 0

Distance To Surface Water: (pts.) 0

Final Closure Sampling:

Sampling Date: 8-24-99 Time: 1152

Sample Results:

Field Headspace (ppm) 7.8

TPH (ppm) GRO ND Method 8015
DRO 4030

Other: ---

RANKING SCORE (TOTAL POINTS): 0

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 Bill Schaaphok 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:	9908054	Client Sample ID:	MW #17 LF 1-2
Lab ID:	9908054-01A	Matrix:	SOIL
Project:	Elm Ridge Landfarms	Collection Date:	08/24/1999 11:52:00 AM
		COC Record:	10251

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	4030	25		mg/Kg	1	08/30/1999
GASOLINE RANGE ORGANICS		SW8015B				Analyst: DM
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	08/25/1999

Qualifiers:

- PQL - Practical Quantitation Limit
- ND - Not Detected at Practical Quantitation Limit
- J - Analyte detected below Practical Quantitation Limit
- Blank - Value compared to the designated Method Blank

- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- E - Value above quantitation range

Client : Elm Ridge Resources

Date Started : 8-27-1998 Date Completed : 8-27-1999

Location : <u>Martin Whittaker # 17</u>			Overview of Landfarm and Sampling :
Quad : <u>NE/SE</u> Section : <u>08</u>			
Township: <u>23N</u> Range: <u>4W</u>			
Pit : <u>Separator</u>			
Reference : <u>75' S20W</u>			

Sample #	Location	OVM
1	1-1	5.6
2	1-2	7.8
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		

Size : 120' x 66' x 1'

Yds : 293

2-5 - Point Composite

Comments : 8" to 12" sandy loam, some clay, covered with vegetation, no odor or staining sample & depth

Environmental Specialist :

