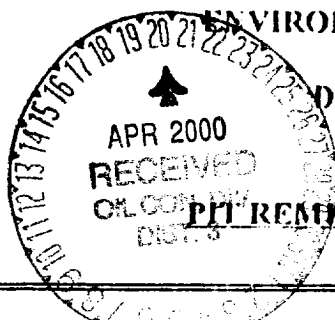


OK

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 RESEARCH DEPT
 ADMINISTRATION



OIL CON. DIV.
DIS. B
APPROVED
PORT

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 8/18/98 Date Completed: 8/19/98

Remediation Method: Excavation X Approx. cubic yards 420 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 COATAMINATED SOIL USING EXCAVATOR, SPREAD ON LOCATION IN SOIL FARM

Groundwater Encountered: No X Yes _____ Depth _____

Original Pit: Sample location Pit Bottom 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 15-16' DIE ND PPM
Sample date 8/19/98 Sample time 10:15 AM METHOD 8015M
PID 6.7 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) 4.9 Ethylbenzene (ppb) N/A
TPH 8015M (ppm) GAS ND PPM Total Xylenes (ppb) N/A
DIE ND PPM

Groundwater Sample: Yes _____ No X (If yes, attach sample results)

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

DATE 11/23/98 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) _____

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

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Aug-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Whittaker No.34
Work Order:	9808041	Client Sample ID:	MW34-100 Floor
Lab ID:	9808041-09A	Matrix:	SOIL
Project:	Pit Remediation	Collection Date:	8/19/98 10:15:00 AM
		COC Record:	4395

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	8/26/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	8/21/98

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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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Aug-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Whittaker No.34
Work Order:	9808041	Client Sample ID:	MW34-101 Wall
Lab ID:	9808041-10A	Matrix:	SOIL
Project:	Pit Remediation	Collection Date:	8/19/98 10:20:00 AM
		COC Record:	4395

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	8/26/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	8/20/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

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R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

CONTRACT ENVIRONMENTAL

Elmer Rickert

Daily Site Sheet

Site Name: Martin Whiteaker No. 34.

SW 1/4 SE 1/4 Sec. 16. T23N R4W

Date: 8-18-98

Time Started: 2:45

Time Finished: 11:30 8-19-98

Pit starting size: 15x15x4

Pit size when finished: 25x30x15

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: _____

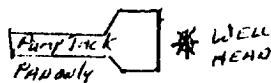
Equipment used: P.S.D. P.I.D. Excavator Jim Kirby Lin Wilson

Remarks: Took two samples 4oz jar 1 pit floor 4.9 PPM 1 wall comp.
1.7 PPM

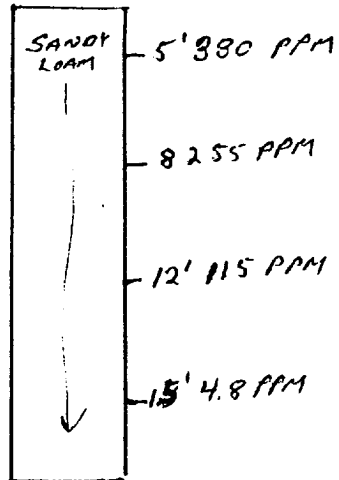
Site Diagram



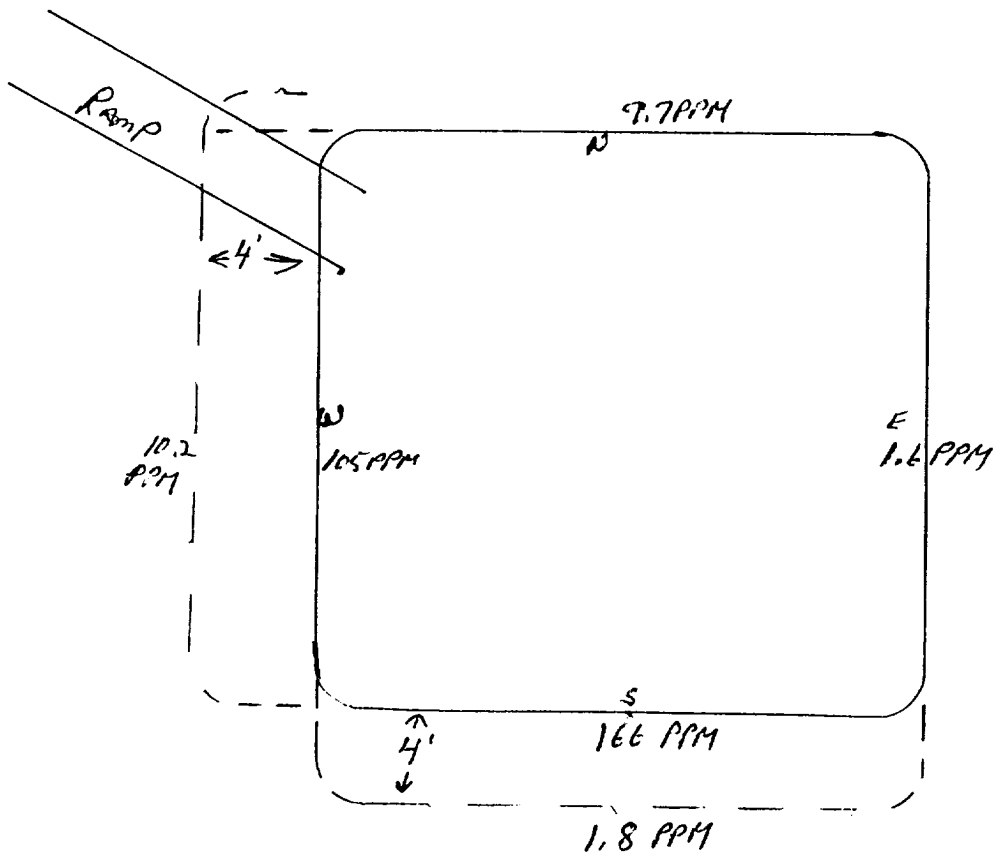
NO
SEP



VERT SAMPLES

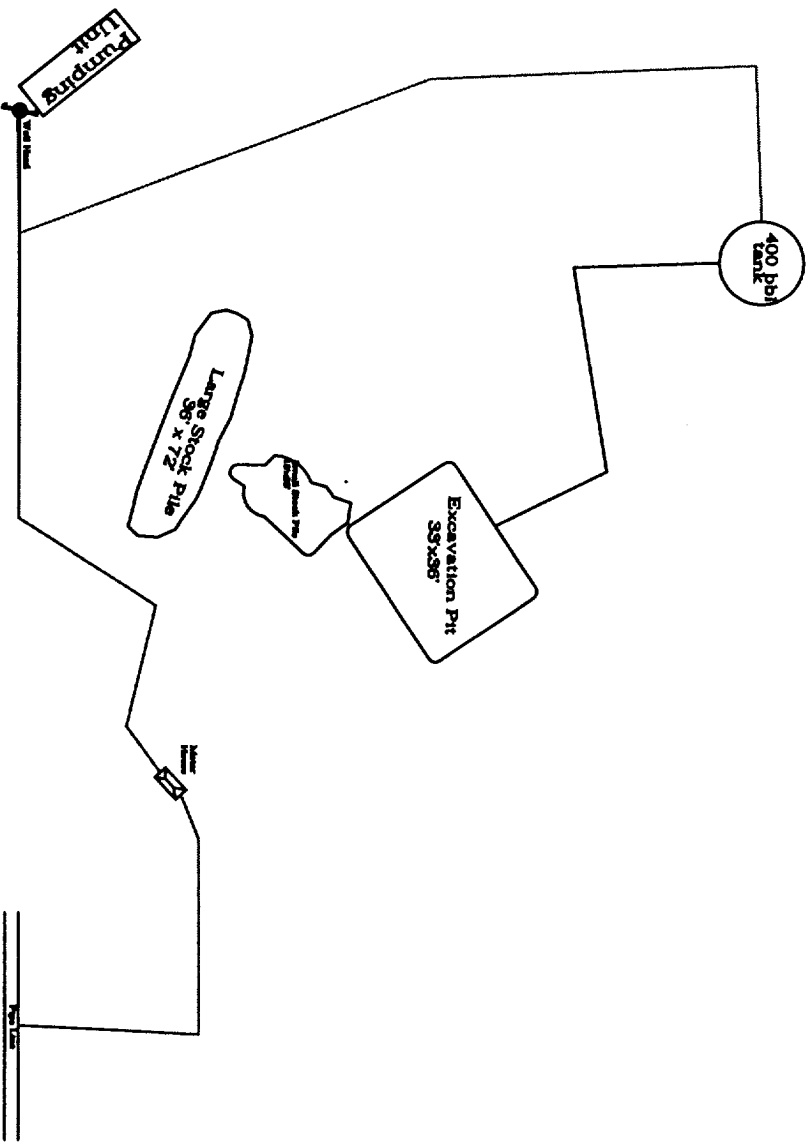


Pit Floor 4.9
 4 wall Comp. 6.7



Purchase Order No.:		Job No.		Name		Title	
SEND INVOICE TO		Company		Company			
Address		Dept.		Mailing Address			
City, State, Zip				City, State, Zip			
Sampling Location: <u>Martin Whiteaker ab. 35, No. 31, No. 32,</u>				Telephone No. <u>325-1198</u>		Telefax No.	
No. 34				ANALYSIS REQUESTED			
Sampler: <u>L.R.W.</u>		Number of Containers					
SAMPLE IDENTIFICATION		SAMPLE DATE		MATRIX		PRES.	
MW 31-200 Floor		8/18/98 9:45		Soil		W/4	
MW 31-201 Wall		8/18/98 10:00		Soil		W/4	
MW 32-300 Floor		8/18/98 12:45		Soil		W/4	
MW 32-301 Wall		8/18/98 12:55		Soil		W/4	
MW 33-100 Floor		8/17/98 10:45		Soil		W/4	
MW 33-101 Wall		8/17/98 11:15		Soil		W/4	
MW 33-102 Soil Floor		8/17/98 1:30		Soil		W/4	
MW 33-103 Soil Wall		8/17/98 1:25		Soil		W/4	
MW 34-100 Floor		8/17/98 10:15		Soil		W/4	
MW 34-101 Wall		8/17/98 10:30		Soil		W/4	
Relinquished by: <u>NT - L. Whiteaker</u>		Date/Time: <u>8/17/98 15:30</u>		Received by:		Date/Time: <u>8/17/98 15:30</u>	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
Relinquished by:		Date/Time:		Received by:		Date/Time:	
Method of Shipment:		Rush		24-48 Hours		10 Working Days	
Authorized by:		(Client Signature Must Accompany Request)		Special Instructions:			

LEGEND:	OL
	Water
	GS
	OL Water
	Gas/Oil Water



Field Data Recorded : _____ Date: _____

Reviewed : _____ Date: _____

Drawn : _____ Date: _____

Elm Ridge Resources

Martin Whitaker 34

SW/SE Sec. 16, T23N, R4W

Contract Environmental Services, Inc.

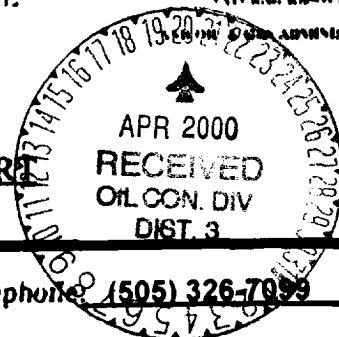
505-325-1198

Farmingington, New Mexico

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

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NATL. ENV. MGMT. DEPT.
EPA REGION 8 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 #34

Location: Unit or Qtr/Qtr Sec SW/SE Sec 16 T 23N R 4W County Rio Arriba

Land Type: Jicarilla Range

Date Remediation Started: 8-18-98 Date Completed: 8-25-99

Remediation Method: Landfarmed X Approx. cubic yards 416

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: 8-25-99 Time: 1015

Sample Results:

Field Headspace (ppm) 1.6

TPH (ppm) ORO ND Method 8015
ORO 270

Other —

RANKING SCORE (TOTAL POINTS):

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) —

(SIGNATURE) — 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#34 Landfarm 1-3
Lab ID:	9908055-07A	Matrix:	SOIL
Project:	Elm Ridge Landfarms	Collection Date:	08/25/1999 10:15:00 AM
		COC Record:	10252

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	270	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

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Overview of Landfarm and Sampling :

100'

Location : Martin Whittaker # 34

Quad : SW/SE Section : 16

Township : 23 N Range : 4 W

Pit : Separator

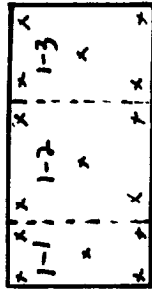
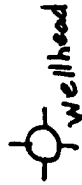
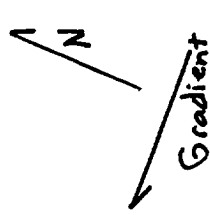
Reference : 150' N 20 E

Size : 150' x 75' x 1'

Yds : 416

3-5 - Point Composite

Sample #	Location	OVM
1	1-1	0.3
2	1-2	0.0
3	1-3	1.6
4		
5		
6		
7		
8		
9		
10		
11		
12		



Comments : Sandy loam, brown grey, covered with vegetation, no odor or staining
sample taken at 8" to 12"

Environmental Specialist :