

OK -

SUBMIT COPY TO
 NATURAL RESOURCE DEPT.
 AND OIL & GAS ADMINISTRATION

APR 2000
PIT

APPROVED

Land Type:

Direction from reference: _____ Degrees _____ of _____ East North _____
 _____ West South _____

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 9/24/98 Date Completed: 9/24/98

Remediation Method: Excavation ☒ Approx. cubic yards 250 CY
(Check all appropriate sections) Landfarmed ☒ Insitu Bioremediation _____
Other _____

Remediation Location: Onsite ☒ Offsite _____
(i.e. landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action: REMOVED CONTAMINATED SOIL USING AN EXCAVATOR, SPREAD SOIL ON LOCATION IN LANDFARM

Groundwater Encountered: No ☒ Yes _____ Depth _____

Final 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 17' DIE ND PPM
Sample date 9/24/98 Sample time 1:05 PM METHOD: BOISM
Sample Results PID = _____ PPM

Soil: Benzene (ppm)	<u>N/A</u>	Water: Benzene (ppb)	<u>N/A</u>
Total BTEX (ppm)	<u>N/A</u>	Toluene (ppb)	<u>N/A</u>
Field Headspace (ppm)	<u>1.6</u>	Ethylbenzene (ppb)	<u>N/A</u>
TPH <u>BOISM</u> (ppm)	<u>GAS ND PPM</u> <u>DIE ND PPM</u>	Total Xylenes (ppb)	<u>N/A</u>

Groundwater Sample: Yes _____ No ☒ (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 12/9/98 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 ☒ NO _____ (REASON) _____

SIGNED: [Signature] DATE: 12-10-98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 08-Oct-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Whittaker #55 Pit #1
Work Order:	9809077	Client Sample ID:	MW55#1-402 Pit Floor
Lab ID:	9809077-05A	Matrix:	SOIL
Project:	Martin Whittaker	Collection Date:	9/24/98 1:05:00 PM
		COC Record:	5218

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	Analyst: HR 10/5/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	Analyst: DC 10/1/98

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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 08-Oct-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Whittaker #55 Pit #1
Work Order:	9809077	Client Sample ID:	MW55#1-403 4 Wall Comp.
Lab ID:	9809077-06A	Matrix:	SOIL
Project:	Martin Whittaker	Collection Date:	9/24/98 1:00:00 PM
		COC Record:	5218

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	Analyst: HR 10/5/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	Analyst: DC 10/1/98

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 -

CONTRACT ENVIRONMENTAL

Daily Site Sheet

Client Name: Elm Ridge

Site Name: Martin Whittaker #55 Pit #1

SW 1/4, NW 1/4, SEC. 16, T 24N, R 4W.

Date: 9-24-98

Time Started: _____

Time Finished: _____

Pit starting size: _____

Pit size when finished: 20' x 20' x 17'

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: 5.1

South wall: 3.2

East wall: 3.3

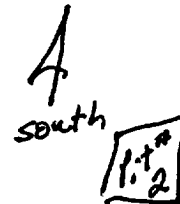
West wall: 1.2

Land farm: _____

Equipment used: Excavator, loader, line locator, Pit James Kirby
Lincoln Wilson

Remarks: Two samples To Lab MW 55 #1 - 402 Pit Floor 1.6 PPM,
MW 55 #1 - 403 4' wall comp 3.2 PPM

Map to site



Site Diagram on back side

Site Diagram

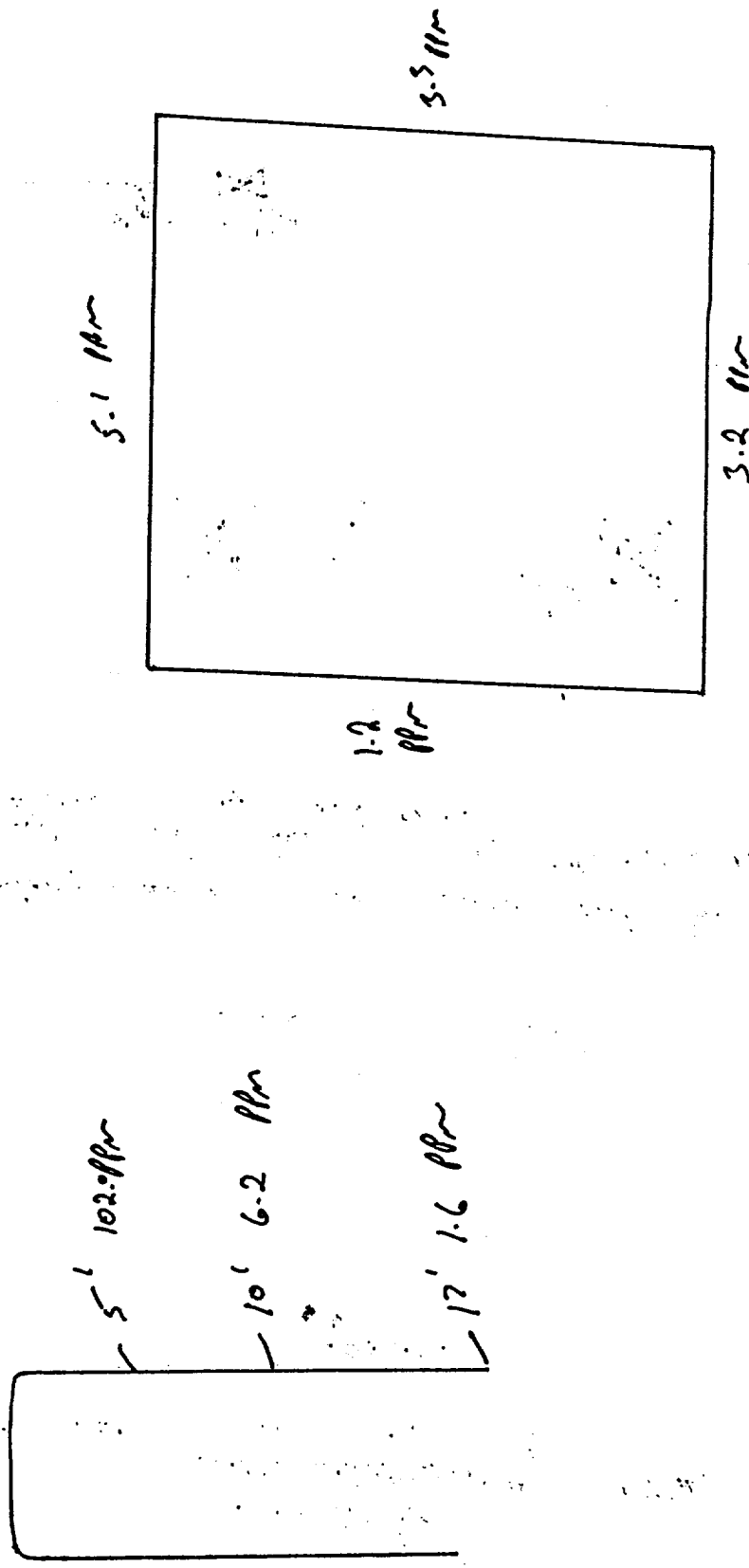
Site Name: Martin Whitaker #55 P.T.#

PID (PRM)

Description

Sample No.

MW55 #1-402 P.T. floor 1.6
MW55 #1-403 4 wall comp 3.2





CHAIN OF CUSTODY RECORD

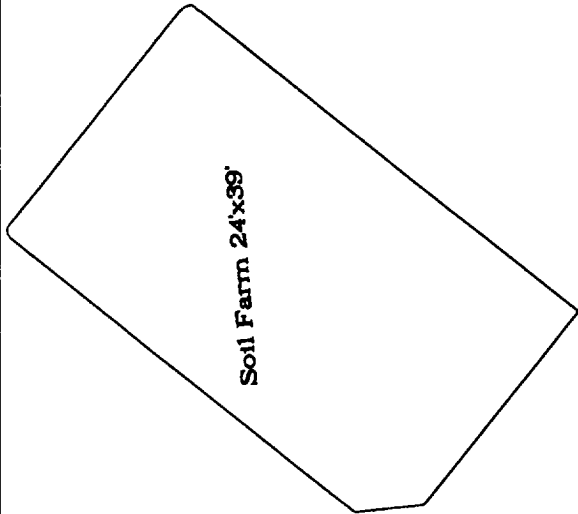
5218

Date: 9-23-98

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

Purchase Order No.:		Job No.		Name		Title	
SEND INVOICE TO		Company		Company		Company	
Address		Dept.		Mailing Address		Mailing Address	
City, State, Zip		City, State, Zip		City, State, Zip		City, State, Zip	
Telephone No.		Telephone No.		Telephone No.		Telephone No.	
Telefax No.		Telefax No.		Telefax No.		Telefax No.	
Sampling Location: Martin White #57 Martin White #57 Martin White #57				ANALYSIS REQUESTED			
Sampler: JKK				LAB ID			
SAMPLE IDENTIFICATION				LAB ID			
DATE				DATE			
TIME				TIME			
MATRIX				MATRIX			
PRES.				PRES.			
MW59-300 Pit floor				MW59-300 Pit floor			
MW59-301 4 wall comp				MW59-301 4 wall comp			
MW55-400 Pit floor				MW55-400 Pit floor			
MW55-401 1 wall comp				MW55-401 1 wall comp			
MW55-1-402 Pit floor				MW55-1-402 Pit floor			
MW55-1-405 1 wall comp				MW55-1-405 1 wall comp			
MW56-500 Pit floor				MW56-500 Pit floor			
MW56-501 4 wall comp				MW56-501 4 wall comp			
Relinquished by: [Signature]				Relinquished by: [Signature]			
Relinquished by: [Signature]				Relinquished by: [Signature]			
Relinquished by: [Signature]				Relinquished by: [Signature]			
Method of Shipment: [Signature]				Method of Shipment: [Signature]			
Authorized by: [Signature]				Authorized by: [Signature]			
Date: 9/23/98				Date: 9/23/98			
(Client Signature Must Accompany Request)				(Client Signature Must Accompany Request)			
Rush				Rush			
24-48 Hours				24-48 Hours			
10 Working Days				10 Working Days			
Special Instructions:				Special Instructions:			



NOTE: CONNECTING PIPING INSTRUCTIONS ARE APPROXIMATE FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL LINES MUST BE LOCATED ON-SITE BY A QUALIFIED TECHNICIAN.

LEGEND:	
—	OIL
—	WATER
—	GAS
—	OIL/WATER
—	GAS/OIL/WATER

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

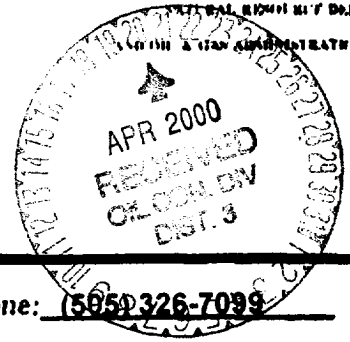
Elm Ridge Resources
 Martin Whittaker 55
 SW/NE Sec. 16, T24N, R24W

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

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

PERMIT COPY TO

FEDERAL BUREAU OF SURVEY
NATIONAL BUREAU OF LAND MANAGEMENT



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 #55

Location: Unit or Qtr/Qtr Sec SW/NW Sec 16 T 24N R 4W County Rio Arriba

Land Type: Jicarilla Range

Date Remediation Started: 9-24-98 Date Completed: 9-13-99

Remediation Method: Landfirmed X Approx. cubic yards 423

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: 9-13-99 Time:

Sample Results:

Field Headspace (ppm) 1.2

TPH (ppm) GROUND Method 8015
DRO 140

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: 22-Sep-99

Client:	Elm Ridge Resources, Inc.	Client Sample Info:	Elm Ridge Landfarms
Work Order:	9909043	Client Sample ID:	MW #55 LF 1-1
Lab ID:	9909043-01A	Matrix:	SOIL
Project:	Elm Ridge Landfarms	Collection Date:	9/13/99 12:15:00 PM
		COC Record:	10260

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: HR
T/R Hydrocarbons: C10-C28	140	25		mg/Kg	1	9/17/99
GASOLINE RANGE ORGANICS		SW8015B				Analyst: DM
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	9/16/99

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

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

Overview of Landfarm and Sampling :

Location : Martin Whittaker # 55

Quad : SW1/4NW Section : 16

Township : 24N Range : 4W

Pit : Separator

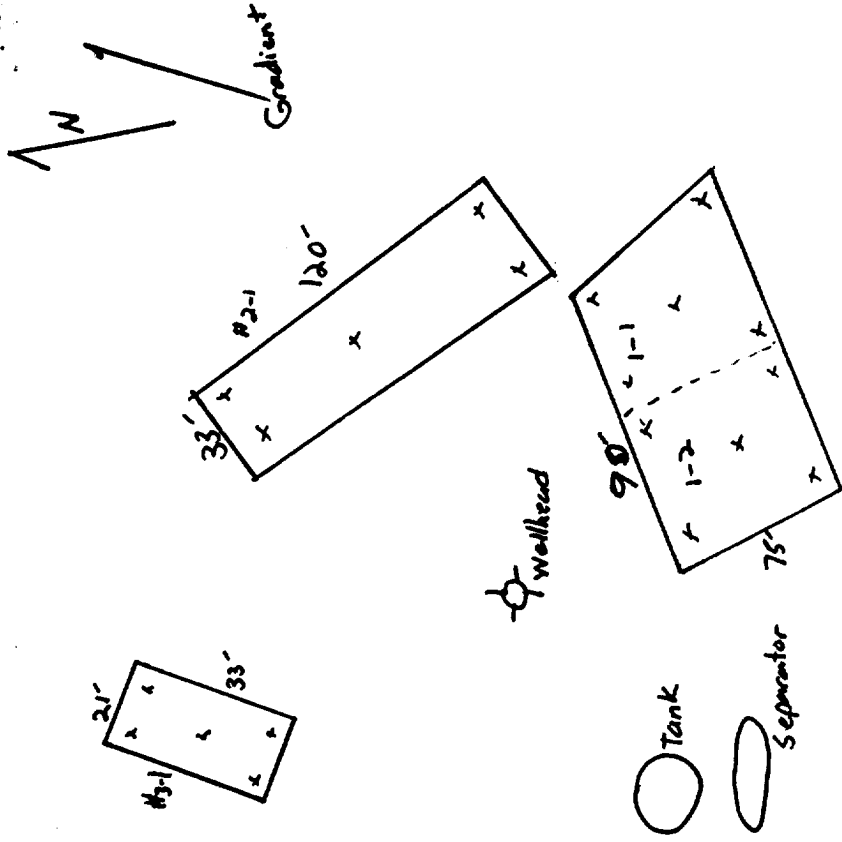
Reference :

Size : #1 90'x75'x1'
#2 120'x33'x1'
#3 33'x21'x1'

Yds : 423

4-5 - Point Composite

Sample #	Location	OVM
1	1-1	1.2
2	1-2	0.7
3	2-1	0.0
4	3-1	0.0
5		
6		
7		
8		
9		
10		
11		
12		



Comments : Sandy brown, slight odor no staining, moist, sample depth 8" to 12"

Environmental Specialist :