

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: 8/5/98 Date Completed: 8/10/98

Remediation Method: Excavation ☒ Approx. cubic yards 1600

(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,

SPREAD ON LOCATION IN SOIL FARM

Groundwater Encountered: No ☒ Yes _____ Depth _____

Final Pit: Sample location Pit Bottom Center

Closure Sampling:

(if multiple samples,

attach sample results

and diagram of sample

locations and depths)

Sample depth 17-18'

Sample date 8/14/98

Sample time 1:38 P

4 BANKS N,S,E,W

GAS ND PPM

DIE 200 PPM

Method 8015 M

PID 26.8 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) 3.5

Ethylbenzene (ppb) N/A

TPH 8015 M (ppm) GAS ND PPM

Total Xylenes (ppb) N/A

DIE 53 PPM

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 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 ☒ 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 #62
Work Order:	9808033	Client Sample ID:	MW62-301; Pit Floor
Lab ID:	9808033-02A	Matrix:	SOIL
Project:	Pit Remediation	Collection Date:	8/14/98 1:38:00 PM
		COC Record:	6994

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	53	25		mg/Kg	1	8/25/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	8/19/98

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

1 of 1

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- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Aug-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Whittaker #62
Work Order:	9808033	Client Sample ID:	MW62-300; 4 Wall Comp.
Lab ID:	9808033-01A	Matrix:	SOIL
Project:	Pit Remediation	Collection Date:	8/14/98 1:30:00 PM
		COC Record:	6994

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	200	25		mg/Kg	1	8/25/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	8/19/98

Qualifiers:

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ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

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Surr: - Surrogate

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- TECHNOLOGY REINFORCING 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.62
Work Order:	9808032	Client Sample ID:	MW62-500 Floor & Wall
Lab ID:	9808032-01A	Matrix:	SOIL
Project:	Pit Remediation	Collection Date:	8/14/98 11:35:00 AM
		COC Record:	4394

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	8/25/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	8/19/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below 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

PAGE 1 of 2

ELM Ridge

Daily Site Sheet

Site Name: No 62 MARTIN WHITAKER

Date: 8-5-98 Time Started: 2:45 Time Finished: _____

Pit starting size: 25X25X5 Pit size when finished: 52X38X16

Land farm size: 100' X 40'

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: 13.2 South wall: 41.0 East wall: 48.0 West wall: 42.0

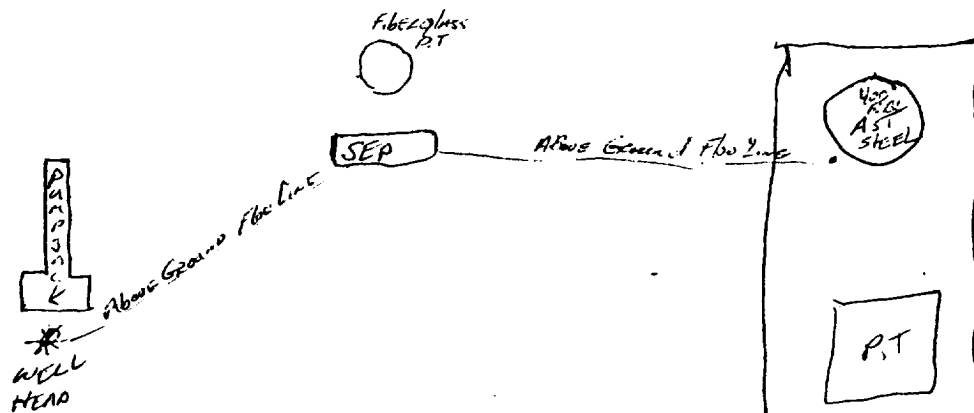
Land farm: _____

Equipment used: P.S.D 1, P.I.D. BACKHOE JAMES KIRBY LINN WILSON

Remarks: Reinstated CREW MOVED SEP + FIBERGLASS PIT STARTED SOLIDIFYING AT 2:45
FOUND P.T. LIVER AT 7' 6" BELOW LIVER
1402 JNR FOUR LALL PIT CAMP 1402 JNR PIT FLOOR 3.5 PPM
26.8 PPM

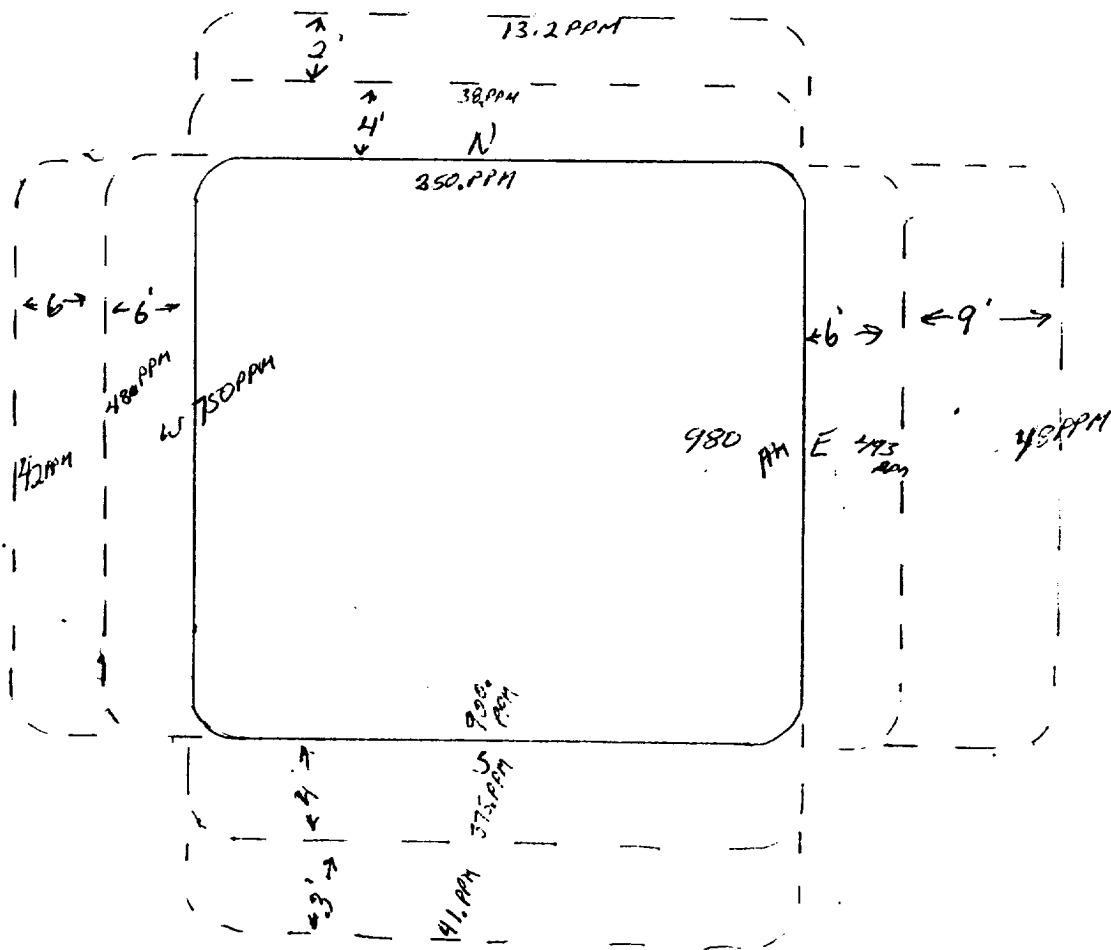
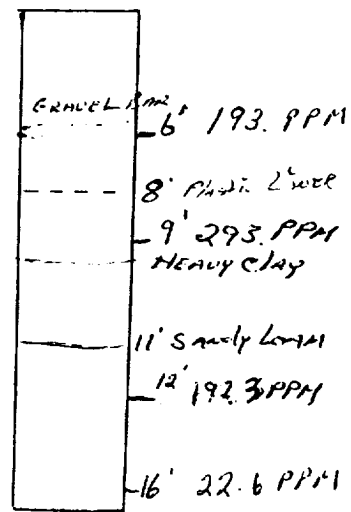
Site Diagram

Soil FARM



Fear Wall Comp 26.8 PPM
 Pit Floor 3.5 PPM at 16'

VERTICAL
Samples



CONTRACT ENVIRONMENTAL

Elm Ridge

Daily Site Sheet

Site Name: NO 62 Martin W. Hittaker

Date: 8-10-98 Time Started: 1:40 Time Finished: _____

Pit starting size: 25x25 Pit size when finished: 40x60x18'

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

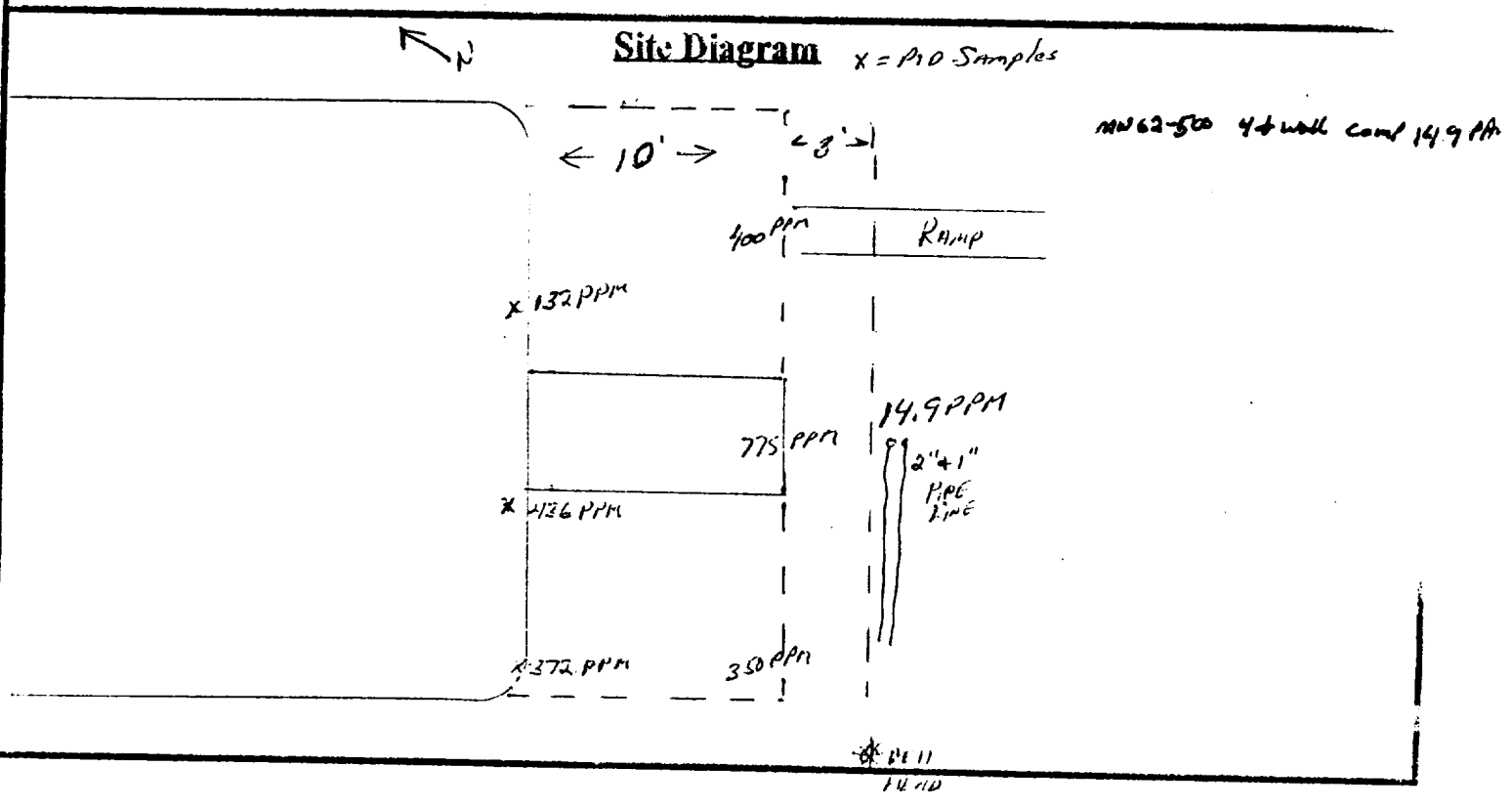
North wall: _____ South wall: _____ East wall: _____ West wall: _____

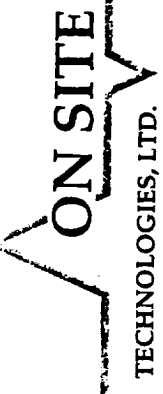
Land farm: _____

Equipment used: PSD P10 Backhoe Jim Kirby Linn Wilson

Remarks: CLEANED UP 3 walls + Floor of Pit Samples to Lab, started cleanup
on East Wall WHERE Sep. WAS S. HING NEW TRACK HOE CLEANED off SEP
SENT sample to Lab 1402 JAR Floor + 1 wall Camp.

Site Diagram





CHAIN OF CUSTODY RECORD

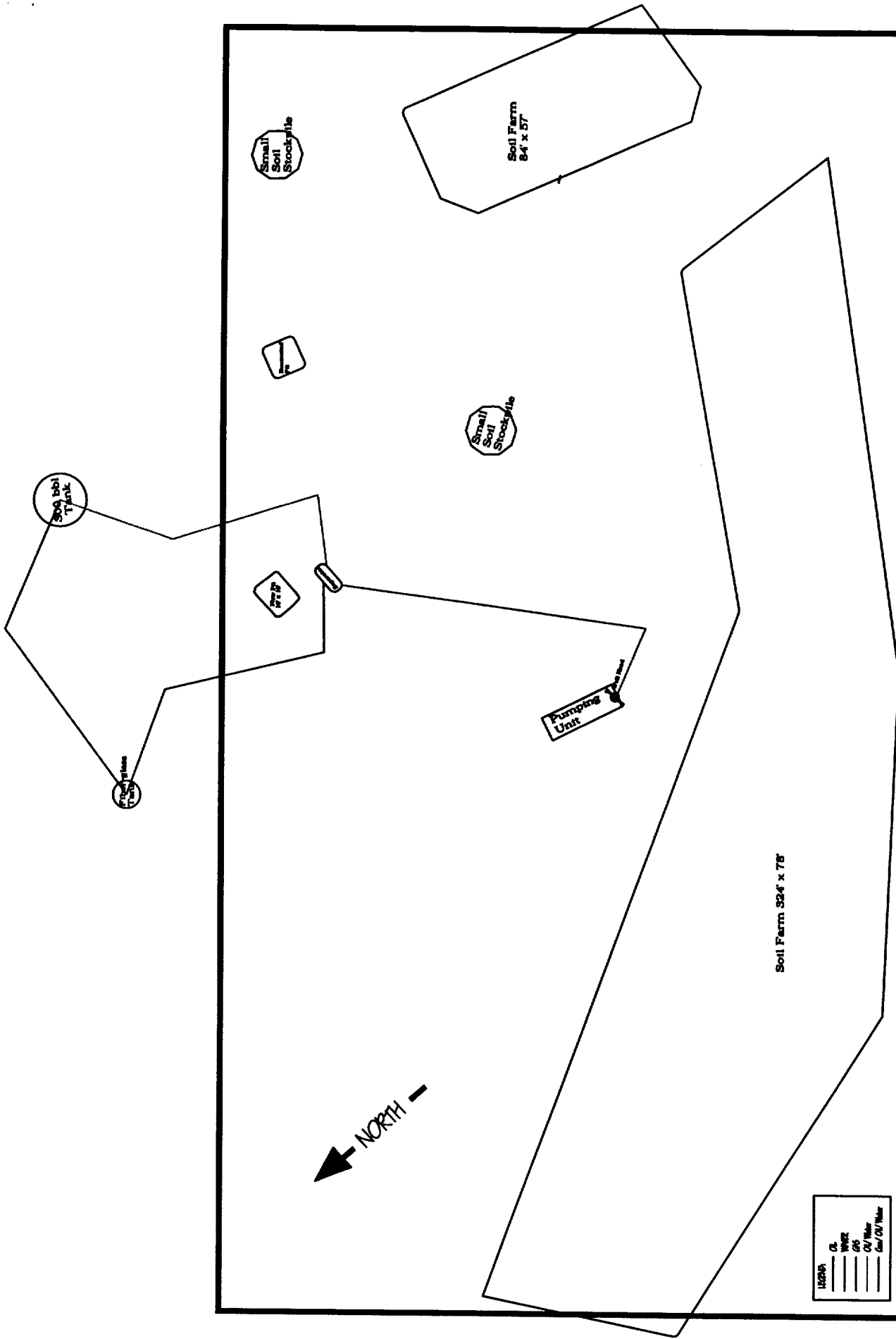
6994

Date: 8/17/98

Page 1 of 1

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		Name: Steve Adams		Company:			
		Company: CONTRACT ENVIRONMENTAL SVCS		Mailing Address:			
		Address: P.O. Box 3376		City, State, Zip:			
		City, State, Zip: Farmington NM 87409		Telephone No.:		Telefax No.:	
Sampling Location:		ANALYSIS REQUESTED					
Morton - Whitaker #62		E					
Sampler: Lin Wilson							
		Number of Containers					
		RESULTS TO REPORT					
		SAMPLE IDENTIFICATION					
		DATE		TIME		MATRIX	
		PRES.					
		Sample 1		2.0		X	
		Sample 2		3.5		X	
		Sample 3		-		-	
		Sample 4		-		-	
		Sample 5		-		-	
		Sample 6		-		-	
		Sample 7		-		-	
		Sample 8		-		-	
		Sample 9		-		-	
		Sample 10		-		-	
		Sample 11		-		-	
		Sample 12		-		-	
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		Sample 15		-		-	
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		Sample 292		-		-	
		Sample 293</					



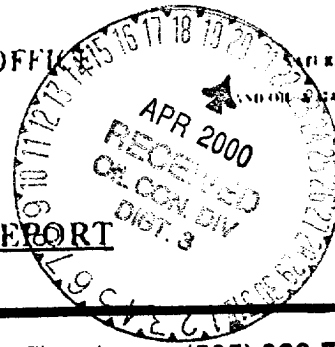
1/22/94	OK
	W/22
	OK
	OK/1/22/94
	OK/OK/1/22/94

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

Elm Ridge Resources
Martin Whittaker 62
 NW/NW Sec. 23, T23N, R4W
 Sandoval County, NM

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 A COPY TO
NATURAL RESOURCES DEPT
INDUSTRIAL & 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 #62

Location: Unit or Qtr/Qtr Sec NW/NW Sec 23 T 23N R 4W County Sandoval

Land Type: Jicarilla Range

Date Remediation Started: 8-5-98 Date Completed: 8-26-99

Remediation Method: Landfarmed X Approx. cubic yards 1504
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: 8-26-99 Time 1326
Sample Results:
Field Headspace (ppm) 1.0
TPH (ppm) GRO ND Method 8015
DRO 280
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 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: 09-Sep-99

Client:	Elm Ridge Resources, Inc.	Client Sample Info:	Elm Ridge Landfarm
Work Order:	9908058	Client Sample ID:	MW #62 LF 1-2
Lab ID:	9908058-04A	Matrix:	SOIL
Project:	Elm Ridge Landfarms	Collection Date:	8/26/99 1:26:00 PM
		COC Record:	10257

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: HR
T/R Hydrocarbons: C10-C28	280	25		mg/Kg	1	9/7/99
GASOLINE RANGE ORGANICS		SW8015B				Analyst: DM
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	8/31/99

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 -

Ranking Score : 10 Closure Standard : $\frac{\$100}{1000}$ ppm