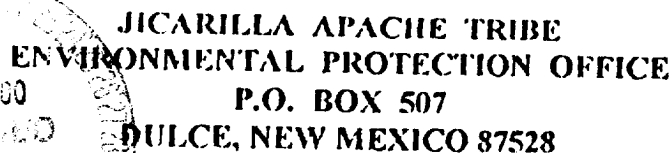


OK



SUBMIT COPY TO
 NATURAL RESOURCE DEPT
 AND OIL & GAS ADMINISTRATION

PIT REMEDIATION AND CLOSURE REPORT

APPROVED

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 9/21/98 Date Completed: 9/21/98

Remediation Method: Excavation X

Approx. cubic yards 300 CY

(Check all appropriate sections)

Landfirmed X

Insitu Bioremediation _____

Other _____

Remediation Location: Onsite X Offsite _____

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

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

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit:

Sample location Pit Bottom - center

4 Banks N, S, E, W

Closure Sampling:

(if multiple samples,

attach sample results

and diagram of sample

locations and depths)

Sample depth 15'

Sample date 9/21/98

Sample time 2:30 PM

GAS NO PPM

DIE NO PPM

METHOD: BOISM

PID = 1.6 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) 5.6

Ethylbenzene (ppb) N/A

TPH BOISM (ppm) GAS NO PPM
DIE NO PPM

Total Xylenes (ppb) N/A

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

12/9/98

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 X NO _____ (REASON) _____

SIGNED: Karl Marshall DATE: 12-10-98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 02-Oct-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Whittaker #51
Work Order:	9809061	Client Sample ID:	MW51-104 Pit Floor
Lab ID:	9809061-05A	Matrix:	SOIL
Project:	Martin Whittaker	Collection Date:	9/21/98 2:30:00 PM
		COC Record:	5216

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	Analyst: HR 10/1/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	Analyst: HR 9/26/98

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: 02-Oct-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Martin Whittaker #51
Work Order:	9809061	Client Sample ID:	MW51-105 4 Wall Comp
Lab ID:	9809061-06A	Matrix:	SOIL
Project:	Martin Whittaker	Collection Date:	9/21/98 2:35:00 PM
		COC Record:	5216

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	Analyst: HR 10/1/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	Analyst: HR 9/26/98

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 -

CONTRACT ENVIRONMENTAL

Daily Site Sheet

Client Name: ECM RIDGE RESOURCES

Site Name: MARTIN WHITTAKER #51

Date: 9/1/98

1/4, 1/4, SEC. , T N, R W.

Time Started: Time Finished:

Pit starting size: 10X10X3

Pit size when finished: 24X24X15

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: EXCAVATOR FRONT LOADER, PSD1, LINDA WILSON
JAMES KIRBY

Remarks: Pit Bottom Sample @ 15' = 5.6 PPM

4 Bulk Composite @ 15' = 1.6 PPM

Site Diagram

Sample No.

Description

PID (PPM)

24
24
96
48
3576
15
12880
576
8640
80
630
801

SEE REVERSE

Site Name: 7465 S1

Site Name: Yus S1

PID - PPM

Description

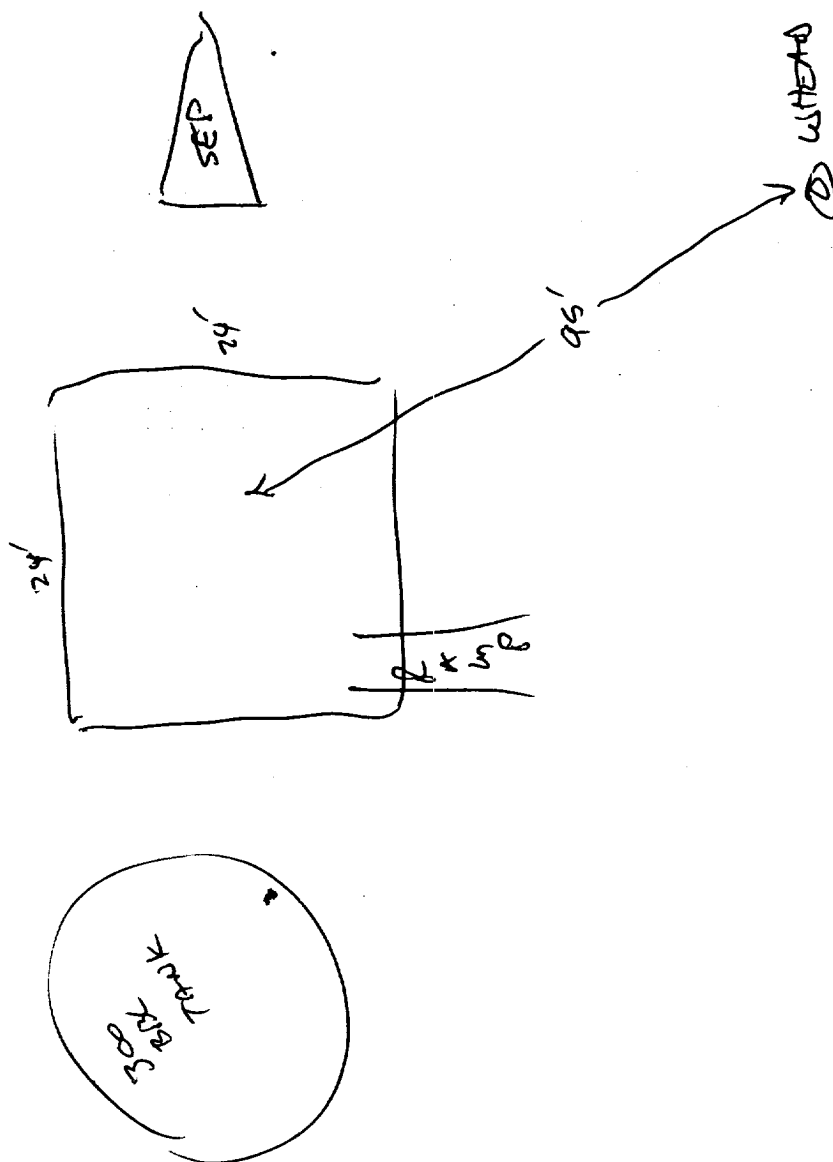
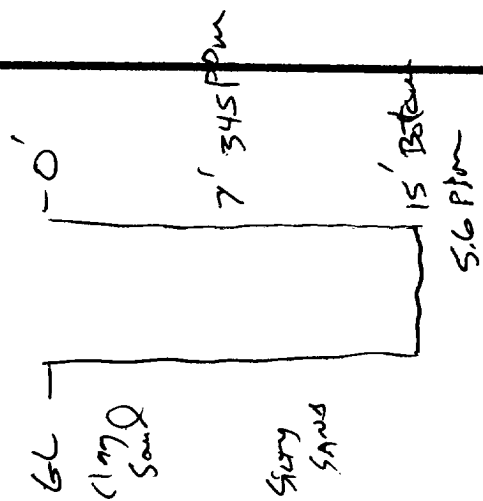
Sample No.

Pit Bottom 15' 5.4

—

4 Banks 15' 1.6

2



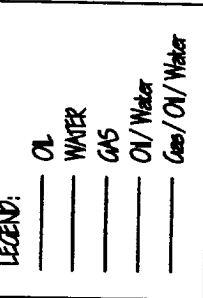
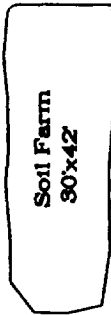
27

5216

Date: 9/21/98

TECHNOLOGIES, LTD.

Purchase Order No.:		Job No.	
Name: <u>Thawn Helms</u>		Title:	
Company: <u>Contact Publ.</u>		Company:	
Address: <u>Po Box 3376</u>		Mailing Address:	
City, State, Zip: <u>Fort Smith, AR 72439</u>		City, State, Zip:	
Telephone No.:		Telefax No.:	
Sampling Location: <u>MLO #0, MW2, NW5</u>		ANALYSIS REQUESTED	
Sampler: <u>JKK LRU</u>			
SAMPLE IDENTIFICATION		LAB ID	
DATE		TIME	
PRES.			
MLO #0-100 P.T. Floor		1.3	
MW2 #0-101 Wall Comp		2.7	
MW2 #0-102 P.T. Floor		10.15	
MW2 #0-103 Wall Comp		7.1	
MW2 #0-104 P.T. Floor		5.6	
MW2 #0-105 Wall Comp		1.6	
MW2 #0-106 P.T. Floor		11.2	
MW2 #0-107 Wall Comp		2.3	
MW2 #0-108 P.T. Floor		1.1	
MW2 #0-109 Wall Comp		1.1	
MW2 #0-110 P.T. Floor		1.1	
MW2 #0-111 Wall Comp		1.1	
MW2 #0-112 P.T. Floor		1.1	
MW2 #0-113 Wall Comp		1.1	
MW2 #0-114 P.T. Floor		1.1	
MW2 #0-115 Wall Comp		1.1	
MW2 #0-116 P.T. Floor		1.1	
MW2 #0-117 Wall Comp		1.1	
MW2 #0-118 P.T. Floor		1.1	
MW2 #0-119 Wall Comp		1.1	
MW2 #0-120 P.T. Floor		1.1	
MW2 #0-121 Wall Comp		1.1	
MW2 #0-122 P.T. Floor		1.1	
MW2 #0-123 Wall Comp		1.1	
MW2 #0-124 P.T. Floor		1.1	
MW2 #0-125 Wall Comp		1.1	
MW2 #0-126 P.T. Floor		1.1	
MW2 #0-127 Wall Comp		1.1	
MW2 #0-128 P.T. Floor		1.1	
MW2 #0-129 Wall Comp		1.1	
MW2 #0-130 P.T. Floor		1.1	
MW2 #0-131 Wall Comp		1.1	
MW2 #0-132 P.T. Floor		1.1	
MW2 #0-133 Wall Comp		1.1	
MW2 #0-134 P.T. Floor		1.1	
MW2 #0-135 Wall Comp		1.1	
MW2 #0-136 P.T. Floor		1.1	
MW2 #0-137 Wall Comp		1.1	
MW2 #0-138 P.T. Floor		1.1	
MW2 #0-139 Wall Comp		1.1	
MW2 #0-140 P.T. Floor		1.1	
MW2 #0-141 Wall Comp		1.1	
MW2 #0-142 P.T. Floor		1.1	
MW2 #0-143 Wall Comp		1.1	
MW2 #0-144 P.T. Floor		1.1	
MW2 #0-145 Wall Comp		1.1	
MW2 #0-146 P.T. Floor		1.1	
MW2 #0-147 Wall Comp		1.1	
MW2 #0-148 P.T. Floor		1.1	
MW2 #0-149 Wall Comp		1.1	
MW2 #0-150 P.T. Floor		1.1	
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MW2 #0-157 Wall Comp		1.1	
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MW2 #0-173 Wall Comp		1.1	
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MW2 #0-177 Wall Comp		1.1	
MW2 #0-178 P.T. Floor		1.1	
MW2 #0-179 Wall Comp		1.1	
MW2 #0-180 P.T. Floor		1.1	
MW2 #0-181 Wall Comp		1.1	
MW2 #0-182 P.T. Floor		1.1	
MW2 #0-183 Wall Comp		1.1	
MW2 #0-184 P.T. Floor		1.1	
MW2 #0-185 Wall Comp		1.1	
MW2 #0-186 P.T. Floor		1.1	
MW2 #0-187 Wall Comp		1.1	
MW2 #0-188 P.T. Floor		1.1	
MW2 #0-189 Wall Comp		1.1	
MW2 #0-190 P.T. Floor		1.1	
MW2 #0-191 Wall Comp		1.1	
MW2 #0-192 P.T. Floor		1.1	
MW2 #0-193 Wall Comp		1.1	
MW2 #0-194 P.T. Floor		1.1	
MW2 #0-195 Wall Comp		1.1	
MW2 #0-196 P.T. Floor		1.1	
MW2 #0-197 Wall Comp		1.1	
MW2 #0-198 P.T. Floor		1.1	
MW2 #0-199 Wall Comp		1.1	
MW2 #0-200 P.T. Floor		1.1	
MW2 #0-201 Wall Comp		1.1	
MW2 #0-202 P.T. Floor		1.1	
MW2 #0-203 Wall Comp		1.1	
MW2 #0-204 P.T. Floor		1.1	
MW2 #0-205 Wall Comp		1.1	
MW2 #0-206 P.T. Floor		1.1	
MW2 #0-207 Wall Comp		1.1	
MW2 #0-208 P.T. Floor		1.1	
MW2 #0-209 Wall Comp			



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

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

Elm Ridge Resources
Martin Whittaker 51
NE/SW Sec. 18, T28N, R4W
Sandoval County, NM

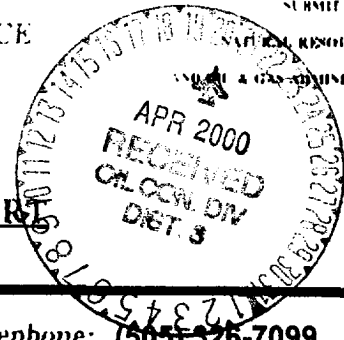
Contract Environmental Services, Inc.
505-325-1198
Farmington, New Mexico

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

SUBMIT COPY TO

NATIONAL RESOURCE DEPT

INDUSTRIAL & 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 #51

Location: Unit or Qtr/Qtr Sec NE/SW Sec 19 T 23N R 4W County Sandoval

Land Type: Jicarilla Range

Date Remediation Started: 9-21-98

Date Completed: 8-26-99

Remediation Method: Landfirmed X

Approx. cubic yards 302

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: 8-26-99 Time: 1421

Sample Results:

Field Headspace (ppm) 0.4

TPH (ppm) GRO ND Method 8015

Other DRO 660

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: 09-Sep-99

Client:	Elm Ridge Resources, Inc.	Client Sample Info:	Elm Ridge Landfarm
Work Order:	9908058	Client Sample ID:	MW #51 LF 1-2
Lab ID:	9908058-05A	Matrix:	SOIL
Project:	Elm Ridge Landfarms	Collection Date:	8/26/99 2:21:00 PM
		COC Record:	10257

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: HR
T/R Hydrocarbons: C10-C28	660	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 -

Comments: Sandy loam, light grey, damp, no odor or staining, covered with vegetation
sample depth 8" to 12"