

SUBMIT COPY
 4
 NATURAL RESOURCES
 AND OIL & GAS ADMINISTRATION

APPROVED

APPROVED

Land Type: _____

Direction from reference: N Degrees _____ East North X
_____ West South _____

RANKING SCORE (TOTAL POINTS): 30

Date Remediation Started: 8/15/96 ^{5A} Date Completed: 4/20/98

Remediation Method: Excavation X Approx. cubic yards 666
(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, 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) GAS ND (PPB)
Sample depth 8-9' DIE ND (PPM)
Sample date 4/20/98 Sample time 2:05 PM METHOD: 8015 M
Sample Results PID = 17.2 PPM

Soil: Benzene (ppm)	<u>N/A</u>	Water: Benzene (ppb)	<u>N/A</u>
Total BTX (ppm)	<u>N/A</u>	Toluene (ppb)	<u>N/A</u>
Field Headspace (ppm)	<u>23.2</u>	Ethylbenzene (ppb)	<u>N/A</u>
TPH <u>8015 M</u> (ppm)	<u>GAS ND (PPB)</u>	Total Xylenes (ppb)	<u>N/A</u>
	<u>DIE 35 (PPM)</u>		

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 5/22/98 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: 5/22/98

CONTRACT ENVIRONMENTAL

DATE 4/20/98 TIME STARTED 13:00 TIME FINISHED 13:35

SITE NAME Jicarilla Apache "B" well 10 Sep

PIT SIZE AT START x x PIT SIZE WHEN FINISHED x x

P.I.D READINGS

NORTH WALL #1 _____ #2 _____ #3 _____ FINALE TIME _____

SOUTH WALL #1 _____ #2 _____ #3 _____ FINALE TIME _____

EAST WALL #1 _____ #2 _____ #3 _____ FINALE TIME _____

WEST WALL #1 _____ #2 _____ #3 _____ FINALE TIME _____

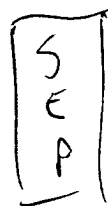
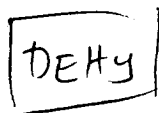
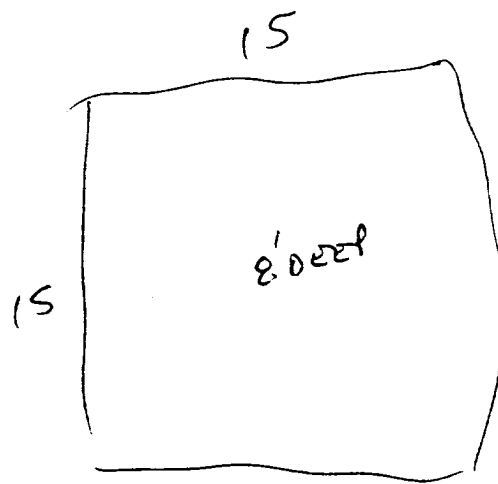
WALL COMPOSITE #1 17.2 #2 _____ #3 _____ FINALE TIME 13:15-

FLOOR #1 23.2 #2 _____ #3 _____ FINALE TIME 13:17

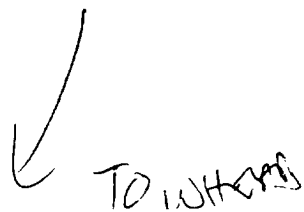
LAND FARM 3.4 SAMPLE TIME 13:20

SPOIL PILE _____ SAMPLE TIME _____

REMARKS: Rock at 6'



Soil
Farm



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Apr-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla Apache "B" Well 12
Work Order:	9804029	Client Sample ID:	JB12-107 Floor Sep.
Lab ID:	9804029-08A	Matrix:	SOIL
Project:	Jicarilla Apache "B"	Collection Date:	4/20/98 2:05:00 PM
		COC Record:	4317

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	35	25		mg/Kg	1	4/27/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	180		µg/Kg	1	4/23/98
Surr: Trifluorotoluene	108.4	70-130		%REC	1	4/23/98

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

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OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Apr-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla Apache "B" Well 12
Work Order:	9804029	Client Sample ID:	JB12-106 Wall Sep.
Lab ID:	9804029-07A	Matrix:	SOIL
Project:	Jicarilla Apache "B"	Collection Date:	4/20/98 1:55:00 PM
		COC Record:	4317

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	4/27/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C6-C10	ND	180		µg/Kg	1	4/23/98
Surr: Trifluorotoluene	103.1	70-130		%REC	1	4/23/98

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

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

SUBMIT TO: JICARILLA
NATURAL RESOURCE DEPT.
AND OIL & GAS ADMINISTRATION

ON-SITE SOIL REMEDIATION REPORT

APPROVED

Operator: ELM RIDGE RESOURCES Telephone: (505) 326-7099
Address: 312 W. LA PLATA STREET, FARMINGTON, NM 87401
Facility or Well Name: JICARILLA APACHE "B" WELL #12 SEP LANDFARM
Location: Unit or Qtr/Qtr Sec A Sec 30 T 24N R 5W County RIO ARriba
Land Type: _____

Date Remediation Started: 8/15/97 Date Completed: 4/20/98
Remediation Method: Landfirmed X Approx. cubic yards 666
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.) 20
Distance To Surface Water: (pts.) 10
RANKING SCORE (TOTAL POINTS): 30

Final Closure Sampling:
Sampling Date: 4/20/98 Time: 2:10
Sample Results:
Field Headspace (ppm) 4.1 ppm
TPH (ppm) Gas - NO Method 8015 M
Die - NO ppm
Other _____

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

DATE 12/22/98 PRINTED NAME SHAWN ADAMS
SIGNATURE Shawn Adams AND TITLE ENV. CONSULTANT

AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON) May be used as backfill, if needed.

SIGNED: Karena L. Callado DATE: 22 DEC 98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Apr-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla Apache "B" Well 12
Work Order:	9804029	Client Sample ID:	JB12-108 Land Farm Sep.
Lab ID:	9804029-09A	Matrix:	SOIL
Project:	Jicarilla Apache "B"	Collection Date:	4/20/98 2:10:00 PM
		COC Record:	4317

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	Analyst: HR 4/27/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	180		µg/Kg	1	Analyst: HR 4/23/98
Surr: Trifluorotoluene	101.8	70-130		%REC	1	4/23/98

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

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