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1/17/2017

5
\$1.3M PER COPY 10

NATURAL RESOURCES REPORT

AND OIL & GAS ADMINISTRATION

APPROVED

APPROVED

Land Type: _____

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

Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)

Less than 100 feet	(20 points)
100 feet to 1000 feet	(10 points)
Greater than 1000 feet	(0 points)

0

RANKING SCORE (TOTAL POINTS): 10

Date Remediation Started: BRETT CUMMINS Date Completed: 4/3/98

Remediation Method: Excavation X Approx. cubic yards 120 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: EXCAVATE CONTAMINATED SOIL UNTIL

BEDROCK ENCOUNTERED, SPREAD IN SOIL FARM

Groundwater Encountered: No X Yes _____ Depth _____

Final Pit: Sample location CENTER PIT BOTTOM

Closure Sampling:

(if multiple samples,
attach sample results

and diagram of sample
locations and depths)

SANDSTONE ENCOUNTERED 5-7'

Sample depth 9-10'

Sample date 4/3/98

Sample time 14:40 P

BANK SAMPLE N,S,E,W

GAS 0 PPM = NO

DI E 20 PPM = NO

7-9' DEEP

PID 3.0 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) 4.0 PPM Ethylbenzene (ppb) N/A

TPH (ppm) GAS NO Total Xylenes (ppb) N/A

DI E 70

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 4/2/98 PRINTED NAME SHAWN A. ADAMS

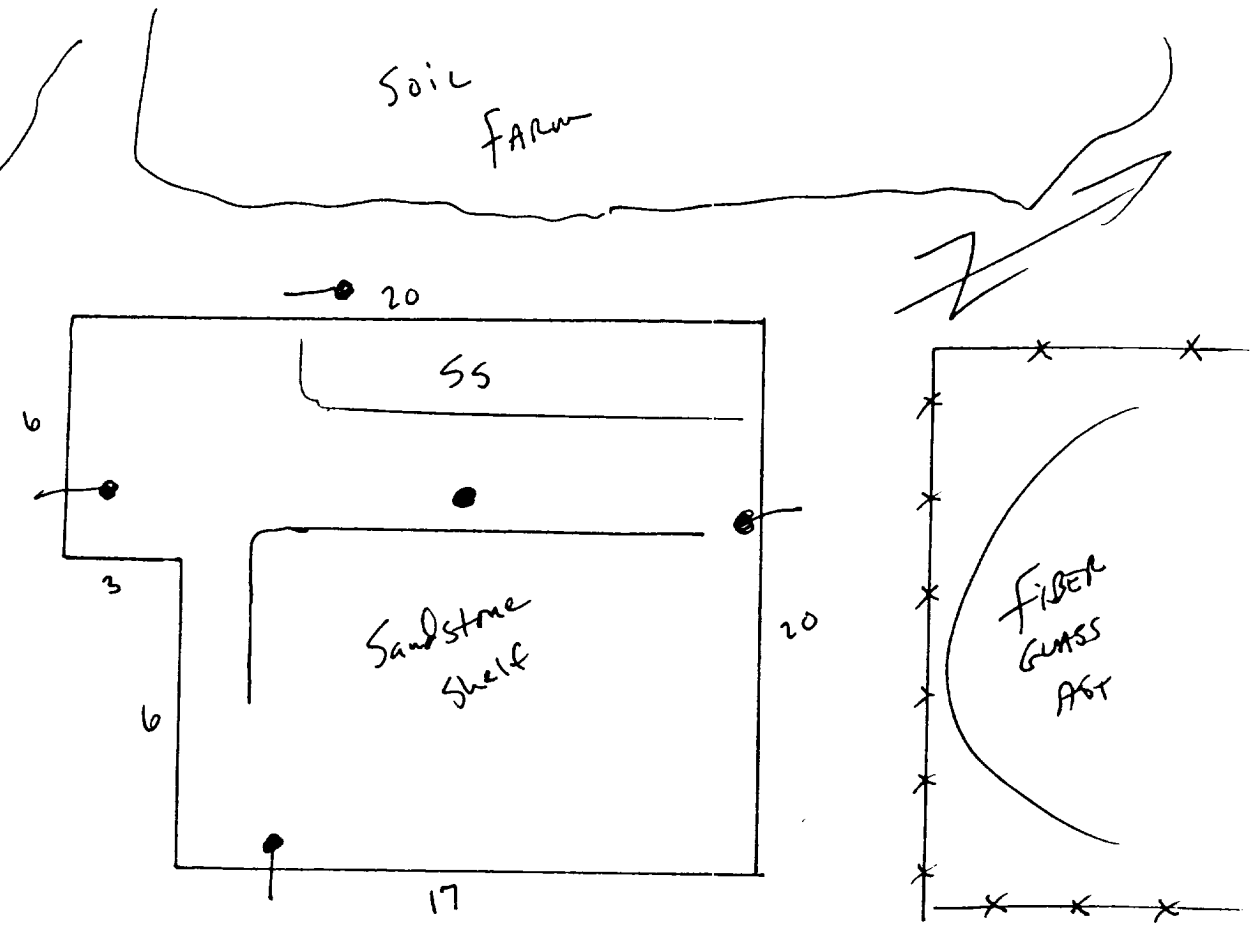
SIGNATURE Shawn Adams AND TITLE ENV. CONSULTANT

AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

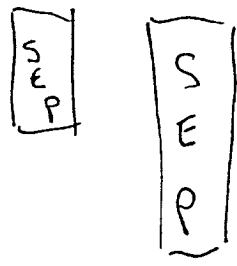
APPROVED: YES X NO _____ (REASON) _____

SIGNED: Kurt C. Martin DATE: 4-29-98

Elm-7c
(average)
Jic. A #14
4/3/98



DISTANCES ARE ESTIMATED, NO FENCE OR BERM
SANDSTONE IN BOTTOM OF EXCAVATION



LAB SAMPLE NO.	DESCRIPTION	Pio (ppm.)
JAF14-300	4 BANKS N SEW	3.0
JAF14-301	center Bottom 10' DEEP	4.0

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 23-Apr-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla Apache F14
Work Order:	9804011	Client Sample ID:	JAF14-301; Center Bottom
Lab ID:	9804011-04A	Matrix:	SOIL
Project:	Jic Apache F2/F14	Collection Date:	4/3/98 2:40:00 PM
		COC Record:	4323

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	70	50		mg/Kg	2	4/21/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	490	180		µg/Kg	1	4/15/98
Surr: Trifluorotoluene	105.3	70-130		%REC	1	4/15/98

conversion $490 \text{ PPB} \div 1000 = \text{PPM}$
 $490 \text{ PPB} \div 1000 = 0.490 \text{ PPM} = \text{ND}$
LAB MISTAKE !

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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- TECHNICAL REPORTS - IMPARTIALITY, INTEGRITY, AND ACCURACY

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OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 23-Apr-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla Apache F14
Work Order:	9804011	Client Sample ID:	JAF14-300; 4 Banks
Lab ID:	9804011-03A	Matrix:	SOIL
Project:	Jic Apache F2/F14	Collection Date:	4/3/98 2:40:00 PM
		COC Record:	4323

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	4/21/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	180		µg/Kg	1	4/15/98
Surr: Trifluorotoluene	95.8	70-130		%REC	1	4/15/98

Qualifiers:

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Surr: - Surrogate

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CHAIN OF CUSTODY RECORD

ON SITE
TECHNOLOGIES, LTD.

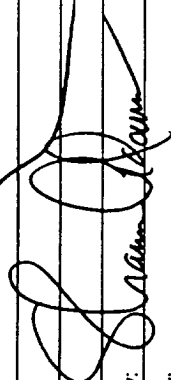
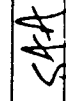
657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6256

Date: 4/13/99

Purchase Order No.:		Job No.	
Name: SHAWN ADAMS		Title:	
Company: CONTRACT ENVIRONMENTAL		Company:	
Address: PO Box 3376		Mailing Address:	
City, State, Zip: Farmington NM 87499		City, State, Zip:	
Telephone No.:		Telefax No.:	

Sampling Location: JICARILLA APACHE F2			
Sampler: SHADAMS			
SAMPLE IDENTIFICATION			
SAMPLE	DATE		PRES.
	DATE	TIME	
JICAF2-200 Jic Apa F2- 4 Banks	4/3/98	1:50P	no
JICAF2-201 Jic Apa F2- Cent. Bot	"	"	"
JICAF14-300 Jic Apa F14 4 Banks	4/3/	2:40P	"
JICAF14-301 Jic Apa F14 Cent. Bot	"	"	"

REPORT RESULTS TO		Number of Containers		ANALYSIS REQUESTED	
Name		Containers		LAB ID	
Company		1		USE J 5' DEEP 6.00PM	
Mailing Address		1		X-02A X 7-8' DEEP 2.00PM	
City, State, Zip		1		X-03A X USE J 7-9' 3.00PM	
Telephone No.		1		X-04A X 10' DEEP 4.00PM	

Relinquished by: 		Date/Time: 4/13/98	
Relinquished by:		Date/Time:	
Relinquished by:		Date/Time:	
Method of Shipment:		Special Instructions:	
Authorized by: 		Date: 4/13	

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

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

ON-SITE SOIL REMEDIATION REPORT

APPROVED

Operator: <u>ELM RIDGE RESOURCES</u>		Telephone: <u>(505) 326-7099</u>
Address: <u>312 WEST LA PLATA STREET, FARMINGTON, NM 87401</u>		
Facility or Well Name: <u>JICARILLA APACHE "F" WELL #14 LANDFARM</u>		
Location: Unit or Qtr/Qtr Sec <u>G</u> Sec <u>18</u> T <u>25N</u> R <u>5W</u> County <u>RIO ARRIOSA</u>		
Land Type: _____		
Date Remediation Started: <u>BRETT CUMMINS</u>		Date Completed: <u>4/3/98</u>
Remediation Method: Landfilled <u>X</u>		Approx. cubic yards <u>120 cy</u>
Composted _____		
Other _____		
Depth To Groundwater: (pts.) <u>0</u>	Final Closure Sampling:	
Distance to an Ephemeral Stream (pts.) <u>10</u>	Sampling Date: <u>5/12/98</u> Time: <u>11:37</u>	
Distance to Nearest Lake, Playa, or Watering Pond (pts.) <u>0</u>	Sample Results:	
Wellhead Protection Area: (pts.) <u>0</u>	Field Headspace (ppm) <u>4.0 ppm</u>	
Distance To Surface Water: (pts.) <u>0</u>	TPH (ppm) Gas - <u>ND</u> Method <u>8015M</u> DRE - <u>750 ppm</u>	
RANKING SCORE (TOTAL POINTS): <u>10</u>		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 [Signature] 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 not be used as backfill.

SIGNED: Karena S. Callado DATE: 22 DEC 98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 24-Apr-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla Apache "F" Well 14
Work Order:	9804020	Client Sample ID:	JF14-102; Landfarm
Lab ID:	9804020-03A	Matrix:	SOIL
Project:	Jicarilla Apache "F" Well 14	Collection Date:	4/16/98 9:22:00 AM
		COC Record:	4332

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	4600	100		mg/Kg	2	4/23/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	1500	180		µg/Kg	1	4/22/98
Surr: Trifluorotoluene	86.2	70-130		%REC	1	4/22/98

Qualifiers:

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S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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TECHNOLOGIES, LTD. REPORTING INFORMATION

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CONTRACT ENVIRONMENTAL

DATE 5/12/98

TIME STARTED 11:35

TIME FINISHED 1:40

SITE NAME Jicarilla Apache F well 14

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 _____ #2 _____ #3 _____ FINALE TIME _____

FLOOR #1 _____ #2 _____ #3 _____ FINALE TIME _____

LAND FARM 4.0

SAMPLE TIME 11:37

SPOIL PILE _____

SAMPLE TIME _____

REMARKS: _____

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 21-May-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla Apache F Well 14
Work Order:	9805038	Client Sample ID:	JA14-104 Land Farm
Lab ID:	9805038-05A	Matrix:	SOIL
Project:	Land Farms	Collection Date:	5/12/98 11:37:00 AM
		COC Record:	4381

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C10-C28	750	25		mg/Kg	1	5/19/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	5/15/98
Surr: Trifluorotoluene	76.0	70-130		%REC	1	5/15/98

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	J - Result outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	V - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr - Surrogate

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- TEL: (505) 325-5667 FAX: (505) 325-1556