

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

25

APPROVED

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 9/2/97

Date Completed: 9/2/97

Remediation Method: Excavation ☒
(Check all appropriate sections) Landfarming ☒

Approx. cubic yards 170

In situ Bioremediation _____

Other _____

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

General Description of Remedial Action: removed contaminated soil and placed in an on-site soil/landfarm

Groundwater Encountered: No ☒ Yes _____ Depth _____

Final Pit:
Closure Sampling:
(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location mid-pit - bottom @ bedrock

4 Banks N, S, E, W

Sample depth 6.5

TPH by EPA 418.1

Sample date 9/2/97

Sample time 1230

ND (ppm)

PID = 260 (ppm)

DEPTH = 4'

Sample Results

Soil: Benzene (ppm) ND

Water: Benzene (ppb) N/A

Total BTEX (ppm) 0.23

Toluene (ppb) N/A

Field Headspace (ppm) 1160

Ethylbenzene (ppb) N/A

TPH (ppm) 67

Total Xylenes (ppb) N/A

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 9/2/98 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: 6/4/98

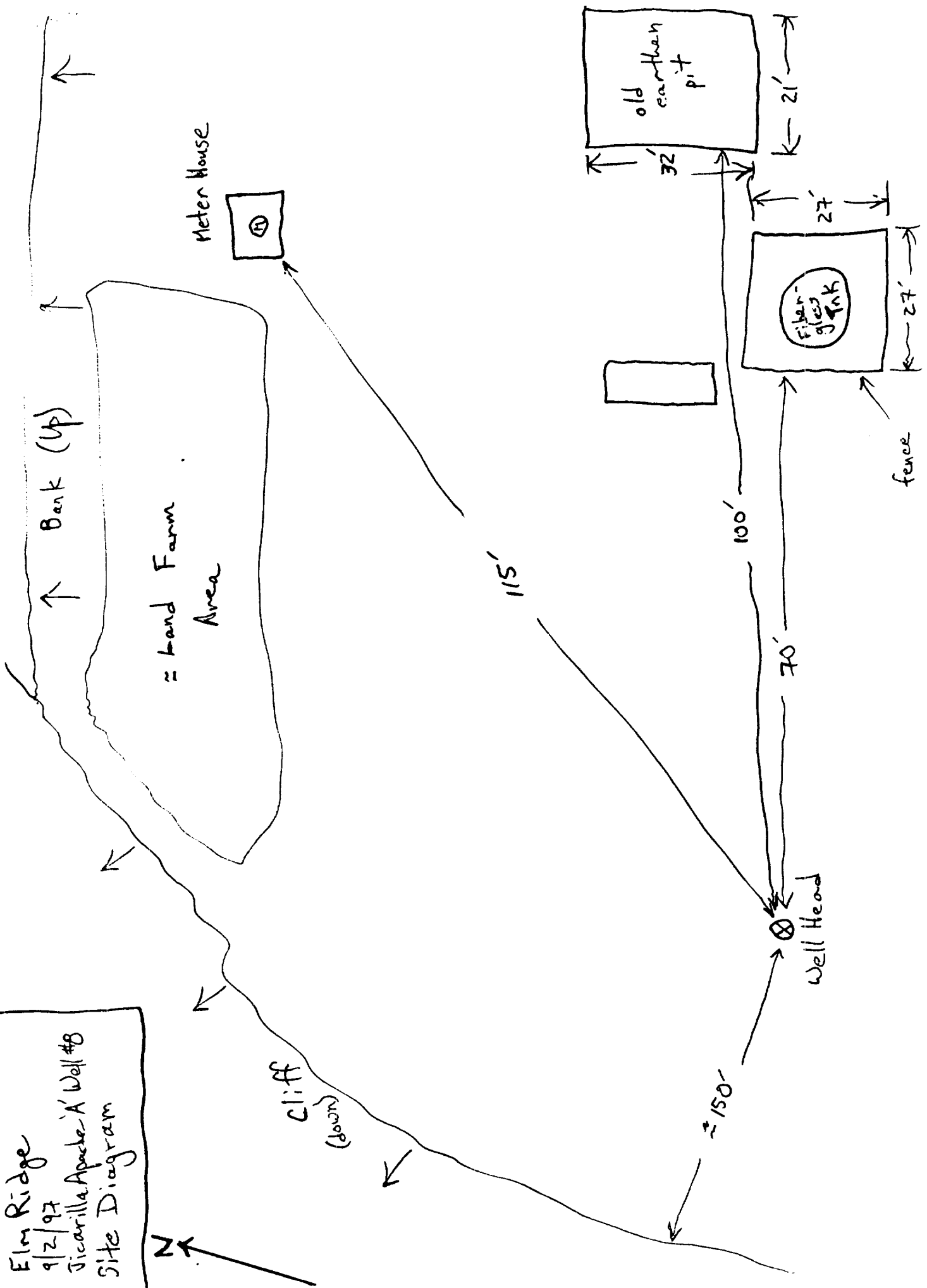
Elm Ridge
 Tularilla Apache 'A' #8
 9/2/97
 Sep. Pit

- arrived on-site = 1130
- excavated to bed rock @ $\approx 6.5'$
- no surface water or stream beds w/in 1000'

<u>No.</u>	<u>Sample No.</u>	<u>Location</u>	<u>Depth</u>	<u>Conc.</u>	<u>Remarks</u>
	1	mid pit	2'	622	
48-100	2	pit bottom	6.5'	1160	Gray
	3	N. Bank @ 4'	4'	69	
	4	S. " " "	4'	1) 2118 2) 2000+	Made 2 read
	5	E. " " "	4'	418	
	6	W. " " "	4'	882	
7 bank composite 48-101	7	N. Bank	4'	15	
	8	S. Bank	"	602 480m	
	9	E. Bank	"	13	
	10	W. Bank	"	17	

- left site = 1510

Elm Ridge
9/2/97
Jicarilla Apache 'A' Well #8
Site Diagram



OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: **Shawn Adams**
Company: **Contract Environmental Services, Inc.**
Address: **P.O. Box 3376**
City, State: **Farmington, NM 87499**

Date: **5-Sep-97**
COC No.: **6743**
Sample No.: **16031**
Job No.: **2-1000**

Project Name: **Jicarilla Apache "A" Well #8**
Project Location: **JAA8-100; Mid Pit @ 6.5'**
Sampled by: **DGM** Date: **2-Sep-97** Time: **12:30**
Analyzed by: **HR** Date: **4-Sep-97**
Sample Matrix: **Soil**

Laboratory Analysis

Parameter	Results as Received	Limit of Quantitation	Unit of Measure	Method
Total Petroleum Hydrocarbons, TPH	67	25	mg/kg	EPA Method 418.1

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
Laboratory Fortified Blank Soil - QCBS2	ND	ND	mg/kg
Laboratory Fortified Spike Soil - QCSS1	906	800-1200	mg/kg

Duplication

Laboratory Identification	RPD	Limit RPD
16033-6743	6.3	15.0

Approved by: 
Date: **9/15/97**

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: **Shawn Adams**
Company: **Contract Environmental Services, Inc.**
Address: **P.O. Box 3376**
City, State: **Farmington, NM 87499**

Date: **8-Sep-97**
COC No.: **6743**
Sample No.: **16031**
Job No.: **2-1000**

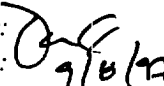
Project Name: **Jicarilla Apache "A" Well #8**
Project Location: **JAA8-100; Mid Pit @ 6.5'**
Sampled by: **DGM** Date: **2-Sep-97** Time: **12:30**
Analyzed by: **DC** Date: **4-Sep-97**
Sample Matrix: **Soil**

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/kg	2	ug/kg
<i>Toluene</i>	93	ug/kg	2	ug/kg
<i>Ethylbenzene</i>	15	ug/kg	2	ug/kg
<i>m,p-Xylene</i>	103	ug/kg	2	ug/kg
<i>o-Xylene</i>	15	ug/kg	2	ug/kg
	<i>TOTAL</i>	226		ug/kg

ND - Not Detected at Limit of Quantitation

Method - SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography

Approved by: 
Date: **9/16/97**

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: **Shawn Adams**
Company: **Contract Environmental Services, Inc.**
Address: **P.O. Box 3376**
City, State: **Farmington, NM 87499**

Date: **5-Sep-97**
COC No.: **6743**
Sample No.: **16032**
Job No.: **2-1000**

Project Name: **Jicarilla Apache "A" Well #8**
Project Location: **JAA8-101; 4 Bank Composite**
Sampled by: **DGM** Date: **2-Sep-97** Time: **14:30**
Analyzed by: **HR** Date: **4-Sep-97**
Sample Matrix: **Soil**

Laboratory Analysis

Parameter	Results as Received	Limit of Quantitation	Unit of Measure	Method
Total Petroleum Hydrocarbons, TPH	ND	25	mg/kg	EPA Method 418.1

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
Laboratory Fortified Blank Soil - QCBS2	ND	ND	mg/kg
Laboratory Fortified Spike Soil - QCSS1	906	800-1200	mg/kg

Duplication

Laboratory Identification	RPD	Limit RPD
16033-6743	6.3	15.0

Approved by: 

Date: **9/5/97**

3723

ON SITE

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

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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: <u>ELM RIDGE RESOURCES</u>		Telephone: <u>(505) 326-7099</u>	
Address: <u>312 W. LAPLATA STREET, FARMINGTON, NM 87401</u>			
Facility or Well Name: <u>JICARILLA APACHE "A" WELL # 8</u>			
Location: Unit or Qtr/Qtr Sec <u>N</u> Sec <u>26</u> T <u>25N</u> R <u>5W</u> County <u>RIO ARriba</u>			
Land Type: _____			
Date Remediation Started: <u>9/2/97</u>		Date Completed: <u>9/2/97</u>	
Remediation Method: Landfilled <u>X</u>		Approx. cubic yards <u>170</u>	
Composted _____			
Other _____			
Depth To Groundwater: (pts.) <u>0</u>		Final Closure Sampling:	
Distance to an Ephemeral Stream (pts.) <u>0</u>		Sampling Date: <u>4/21/98</u> Time: <u>9:23</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>1.3 ppm</u>	
Distance To Surface Water: (pts.) <u>0</u>		TTH (ppm) <u>GAS 0.26</u> Method <u>8015 M</u>	
RANKING SCORE (TOTAL POINTS): <u>0</u>		DIE <u>64 ppm</u>	
		Other _____	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF			
DATE <u>12/22/98</u>		PRINTED NAME <u>SHAWN ADAMS</u>	
SIGNATURE <u>Shawn Adams</u>		AND TITLE <u>ENV. CONSULTANT</u>	
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION IS APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.			
APPROVED: YES <u>X</u> NO _____ (REASON) <u>May be used as backfill if needed.</u>			
SIGNED: <u>Karena L. Callado</u>		DATE: <u>22 DEC 98</u>	

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 11-May-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jic. Apache "A" Well 8
Work Order:	9805004	Client Sample ID:	JAA8-108; Landfarm
Lab ID:	9805004-06A	Matrix:	SOIL
Project:	Jicarilla Apache	Collection Date:	4/21/98 9:23:00 AM
		COC Record:	6930

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	64	50		mg/Kg	1	5/6/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	0.26	0.18		mg/Kg	1	5/5/98

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

P.O. BOX 2606 • FARMINGTON, NM 87499

TECHNOLOGY BUILDING INDUSTRY WITH THE FUTURE

1 of 1

CONTRACT ENVIRONMENTAL

4/21/98
DATE 09:00 TIME STARTED 09:00 TIME FINISHED 09:25

SITE NAME J. Apache "A" wall

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 1.0 #2 _____ #3 _____ FINALE TIME _____

FLOOR #1 2.0 #2 _____ #3 _____ FINALE TIME 09:14

LAND FARM 1.3 SAMPLE TIME 09:18

SPOIL PILE _____ SAMPLE TIME 09:23

REMARKS: Rock at 5'

ON SITE

CHAIN OF CUSTODY RECORD

TECHNOLOGIES, LTD.

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

Date: 4/21/97

Page 1 of 1

Purchase Order No.: Job No.

SEND INVOICE TO

Name: Chacon, Michael

Company: Seitact Inc.

Address: 10 Red 3776

City, State, Zip: Farmington, NM 87499

Sampling Location: J. Mache N well 10

J. Mache N well 10

J. Mache N well 10

Sampler: Jones & Kirby

SAMPLE IDENTIFICATION	SAMPLE		MATRIX	PRES.
	DATE	TIME		

J1A10 100	well	4/15/97	02:43	Soil	U/A	1
J1A10 101	floor	4/15/97	02:50	Soil	U/A	1
J1A10 102	land form	4/15/97	02:52	Soil	U/A	1
J1A17 103	well	4/16/97	08:22	Soil	U/A	1
J1A17 104	floor	4/16/97	08:30	Soil	U/A	1
J1A17 105	land form	4/16/97	08:35	Soil	U/A	1
J1A17 106	well	4/16/97	09:11	Soil	U/A	1
J1A18 107	floor	4/16/97	09:18	Soil	U/A	1
J1A18 108	land form	4/16/97	09:23	Soil	U/A	1
J1A19 109	well	4/16/97	09:50	Soil	U/A	1
J1A19 110	floor	4/16/97	09:54	Soil	U/A	1
J1A19 111	land form	4/16/97	09:59	Soil	U/A	1

Relinquished by: [Signature] Date/Time: 4/16/97

Relinquished by: [Signature] Date/Time: 4/16/97

Relinquished by: [Signature] Date/Time: 4/16/97

Method of Shipment: Rush

Authorized by: [Signature] Date: 4/16/97

REPORT RESULTS TO

Name: [Blank] Title: [Blank]

Company: [Blank]

Mailing Address: [Blank]

City, State, Zip: 50706

Telephone No.: 505 1192

Telefax No.: [Blank]

Number of Containers

100	101	102	103	104	105	106	107	108	109	110	111
1	1	1	1	1	1	1	1	1	1	1	1

ANALYSIS REQUESTED

LAB ID

Received by: [Signature] Date/Time: 4/16/97

Received by: [Signature] Date/Time: 4/16/97

Received by: [Signature] Date/Time: 4/16/97

Special Instructions: [Blank]

Elm Ridge
9/2/97
Ticarilla Apache-A Well #8
Site Diagram

