

OK

SUBMITTED COPY
NATURAL RESOURCES
AND OIL & GAS ADMINISTRATION

APPROVED

RANKING SCORE (TOTAL POINTS):

Date Remediation Started: 9/19/97

Date Completed: 9/22/97

Remediation Method: Excavation ☒
(Check all appropriate sections)

Approx. cubic yards 110

Landfirmed ☒

Insitu Bioremediation _____

Other _____

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

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

Groundwater Encountered: No ☒ 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 11'

TPH = ND ppm

EPA 418.1

Sample date 9/22/97

Sample time 1030

PID = 20 ppm

Sample Results

Soil: Benzene (ppm) ND Water: Benzene (ppb) N/A

Total BTEX (ppm) 0.004 Toluene (ppb) N/A

Field Headspace (ppm) 8 Ethylbenzene (ppb) N/A

TPH (ppm) ND 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 6/15/98 PRINTED NAME SHAWN 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 ☒ NO _____ (REASON) _____

SIGNED: Ken C. Moore DATE: 6-15-98

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: **6-Oct-97**
COC No.: **6497**
Sample No.: **16287**
Job No.: **2-1000**

Project Name: **Jicarilla Apache 'I' #2**
Project Location: **JAI2-100; Sep. Pit Bottom**
Sampled by: **DGM** Date: **22-Sep-97** Time: **10:30**
Analyzed by: **HR** Date: **29-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 - QCSSI	904	800-1200	mg/kg

Duplication

Laboratory Identification	RPD	Limit RPD
16287-6497	<LOQ	15.0

Approved by: 
Date: **10/6/97**

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: *6-Oct-97*
COC No.: *6497*
Sample No.: *16287*
Job No.: *2-1000*

Project Name: *Jicarilla Apache 'I' #2*
Project Location: *JAI2-100; Sep. Pit Bottom*
Sampled by: *DGM* Date: *22-Sep-97* Time: *10:30*
Analyzed by: *DC* Date: *2-Oct-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>	2	ug/kg	2	ug/kg
<i>Ethylbenzene</i>	ND	ug/kg	2	ug/kg
<i>m,p-Xylene</i>	ND	ug/kg	2	ug/kg
<i>o-Xylene</i>	2	ug/kg	2	ug/kg
<i>TOTAL</i>		4	ug/kg	

ND - Not Detected at Limit of Quantitation

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

Approved by: *[Signature]*
Date: *10/6/97*

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: **7-Oct-97**
COC No.: **6491**
Sample No.: **16277**
Job No.: **2-1000**

Project Name: **Jicarilla Apache 'I' #2**
Project Location: **JAI2-100; Sep Pit, 4 Bank Comp**
Sampled by: **DGM** Date: **19-Sep-97** Time: **13:00**
Analyzed by: **HR** Date: **23-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

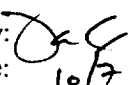
Quality Assurance Report

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	894	800-1200	mg/kg

Duplication

Laboratory Identification	RPD	Limit RPD
16277-6491	<LOQ	15.0

Approved by: 
Date: **10/7/97**

ON SITE

CHAIN OF CUSTODY RECORD

6497

TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499
LAB: (505) 325-5667 • FAX: (505) 325-6236

Date: 9/23/97

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Purchase Order No.:		Job No.	
Name: Shawn Adams		Title:	
Company: CES, Inc.		Company:	
Address: PO Box 3376		Mailing Address:	
City, State, Zip: Farmington, NM 87499		City, State, Zip:	
Telephone No.: 325-1198		Telefax No.:	
SEND INVOICE TO		REPORT RESULTS TO	
Sampling Location: Sicarilla Apache Ind #2		Name:	
" " #3		Company:	
Sampler: DGM		Mailing Address:	
SAMPLE IDENTIFICATION		City, State, Zip:	
SAMPLE		ANALYSIS REQUESTED	
DATE TIME MATRIX PRES.		EPA 48.1	
JAI 2-100 Sep. Pit Bottom 9/22/97 1030 Soil none 1		BTEX	
JAI 3-100 Sep. Pit 4 Bank Comp 9/23/97 1330 " " 1		PID (ppm)	
		Depth (ft)	
		LAB ID	
Reinquinshed by: [Signature]		Received by: [Signature]	
Date/Time: 9/23/97 1615		Date/Time: 9/23/97 1615	
Reinquinshed by: [Signature]		Received by: [Signature]	
Date/Time: 9/23/97 1615		Date/Time: 9/23/97 1615	
Reinquinshed by: [Signature]		Received by: [Signature]	
Date/Time: 9/23/97 1615		Date/Time: 9/23/97 1615	
Method of Shipment:		Rush	
Authorized by: [Signature]		24-48 Hours	
(Client Signature Must Accompany Request)		10 Working Days	
Date:		Special Instructions:	

6491

LAB: (505) 325-5667 • FAX: (505) 325-6256

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Dieblich, Peter W. - On Site - AP - Proj. - Sample - Goldbarred - Client

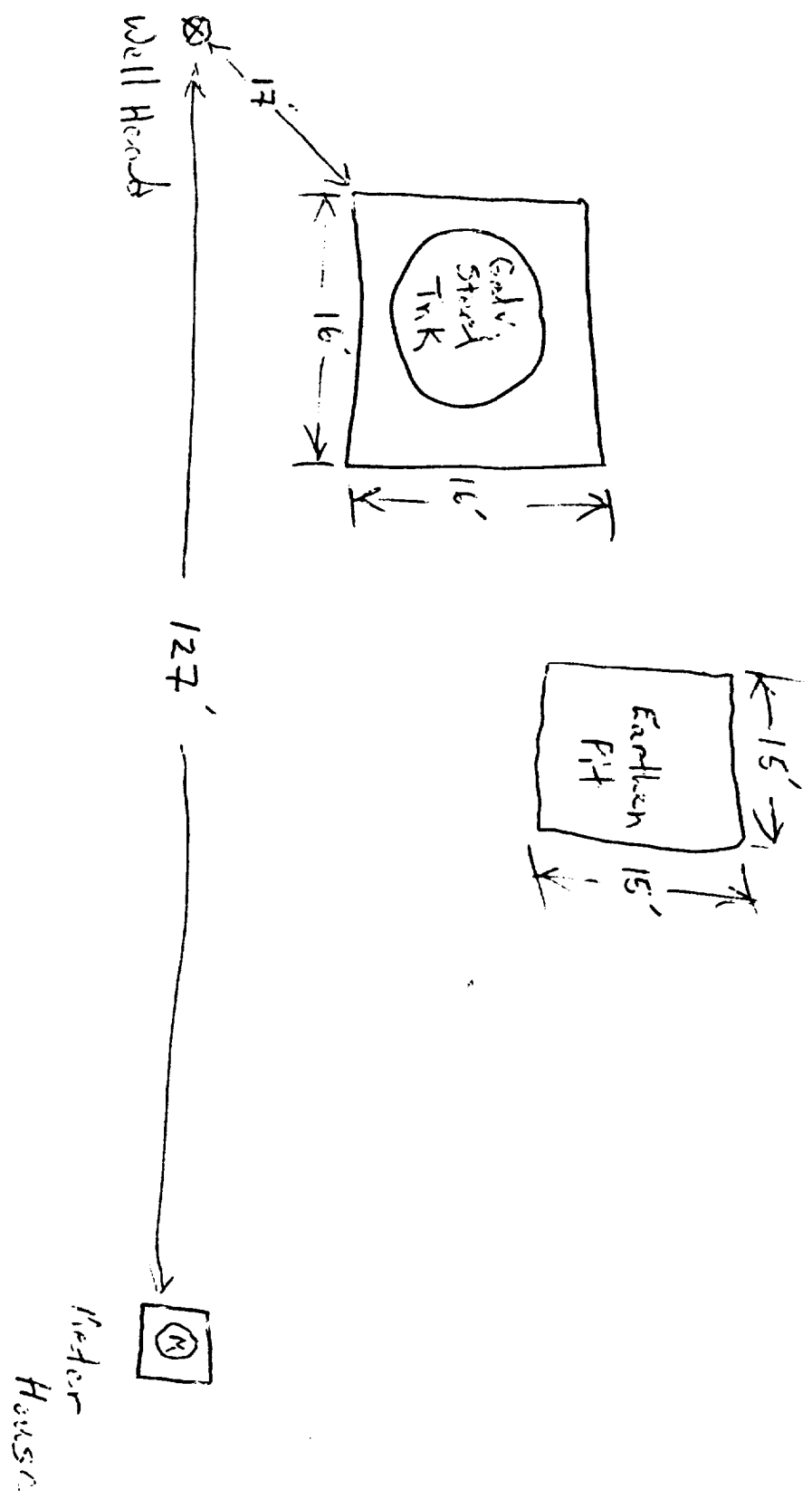
Elm Ridge
T4 T' #2
cap pit
1/22/97

- arrived on-site $\approx$ 1000
- calibrated PID meter

<u>b No</u>	<u>Sample No</u>	<u>Location</u>	<u>Depth</u>	<u>Core</u>	<u>Remarks</u>
II2-100	1	mid pit center bottom	11'	8	

- set up & binned soil farm
- pit is 50' from the well head @
120° East of North
- permed dug out pit
- left site @ $\approx$ 1100

2001 A109C
JAIL #2
Site Diagram
9/23/97



Elm Ridge
 A I 2
 Pit
 1/19/97

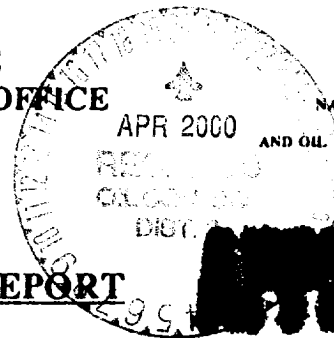
-took down fence
 -pit is 15X15 x 2' deep
 -pit appears clean and looks like a flower bed full of wild flowers; if my dog died I would bury him here

		<u>Sample No.</u>	<u>Location</u>	<u>Depth</u>	<u>Conc</u>	<u>Remarks</u>
		1	mid-pit	3	64	brown
		2	mid-pit	6	775	"
		3	mid-pit	8	1599	"
		4	" "	10	470	
-Bark comp. AI 2-100	[	5	N Bk middle	7	11	
		6	S " "	"	17	
		7	E " "	"	6	
		8	W " "	"	10	

-left site = 1335 to take operator to his truck

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



SUBMIT COPY TO
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. La Plata Street, Farmington, NM 87401</u>			
Facility or Well Name: <u>JICARILLA APACHE "I" WELL 2</u>			
Location: Unit or Qtr/Qtr Sec <u>I</u> Sec <u>2</u> T <u>23N</u> R <u>3W</u> County <u>RIO ARriba</u>			
Land Type: _____			
Date Remediation Started: <u>9/19/97</u>		Date Completed: <u>6/16/98</u>	
Remediation Method: Landfarmed <u>X</u>		Approx. cubic yards <u>110</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>6/16/98</u> Time: <u>12:00</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>5.0</u>	
Distance To Surface Water: (pts.) <u>0</u>		TPH <u>GAS</u> (ppm) <u>NA (ppm)</u> Method <u>BOISM</u>	
RANKING SCORE (TOTAL POINTS): <u>0</u>		Other <u>DIE</u> <u>48 (ppm)</u>	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF			
DATE <u>7/1/98</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>WAS ON BACKFILL</u>			
SIGNED: <u>K. C. Mann</u>		DATE: <u>7-27-98</u>	

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 30-Jun-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicarilla Apache "I" #2
Work Order:	9806075	Client Sample ID:	JAI2-504; Soil Farm Comp.
Lab ID:	9806075-05A	Matrix:	SOIL
Project:	Pit Remediation	Collection Date:	6/16/98 12:00:00 PM
		COC Record:	6988

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C10-C28	48	25		mg/Kg	1	Analyst: HR 6/27/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	Analyst: DC 6/23/98

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

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT

CHAIN OF CUSTODY RECORD

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LAB: (505) 325-5667 • FAX: (505) 325-6256

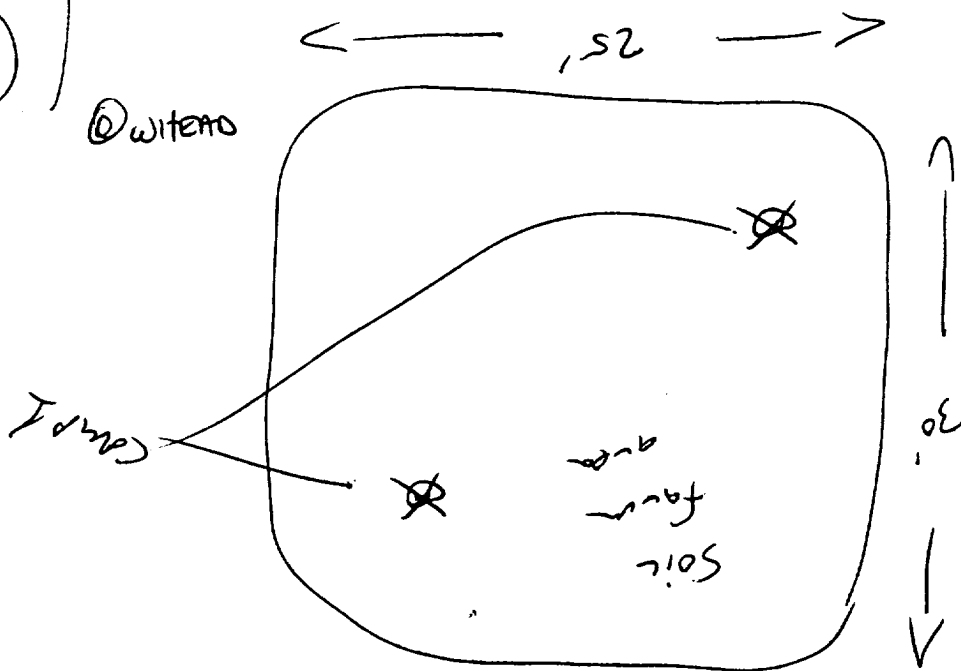
Purchase Order No.:		Job No.		Name		Title	
Name: SUPPLY A&A		Company: CONTRACTORS ENV. SERVICES, INC.		Company: C.A.A.		Company: C.A.A.	
Address: PO Box 3376		City, State, Zip: 27444		Mailing Address: C.A.A.		Mailing Address: C.A.A.	
City, State, Zip: 27444		Telephone No.:		City, State, Zip: 27444		Telephone No.:	
Sampling Location: J. P. A. A. A. I " # 4		City, State, Zip: 27444		City, State, Zip: 27444		City, State, Zip: 27444	
Sampler: LADAMS		City, State, Zip: 27444		City, State, Zip: 27444		City, State, Zip: 27444	
SAMPLE IDENTIFICATION		DATE		TIME		PRES.	
JAP-1-SW Soil from North		6/14/98		2:00P		20	
JAP-4-S01 Soil from West		" 1:30P		"		"	
JAP-3-S02 Soil from South		" 12:10P		"		"	
JAP-3-S03 Soil from North		" 1:00P		"		"	
JAP-7-S04 Soil from Composite		" 12:00P		"		"	
RELINQUISHED BY: [Signature]		Date/Time: 6/12/98		8:00P		8:00P	
RELINQUISHED BY: [Signature]		Date/Time:					
RELINQUISHED BY: [Signature]		Date/Time:					
Method of Shipment:		Rush		24-48 Hours		10 Working Days	
Authorized by: [Signature]		Date: 6/14					
(Client Signature Must Accompany)		Date: 6/14					
Pink - Sampler		Goldenrod - Client					

ERM-12
 J.A. I#2
 Sec 2 T23N R3W
 Rio Arriba Co.

U
 T
 R



@ WITERO



<u>Sample no.</u>	<u>DESCRIPTION</u>	<u>PID (PLM)</u>
AIR 504 ↑	Soil farm com (2)	5.0