

Date Remediation Started: 9/22/97 Date Completed: 10/1/97

Remediation Method: Excavation ☒ (Check all appropriate sections) Landfarming ☒ Approx. cubic yards 311 Insitu Bioremediation _____

Other _____

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

General Description of Remedial Action: remove contaminated soil and place in an on-site landfarm

Groundwater Encountered: No ☒ Yes _____ Depth _____

Final Pit: Sample location pit bottom 4 DAWKS N, S, E, W
Closure Sampling: (if multiple samples, attach sample results and diagram of sample locations and depths) Sample depth 19' TPH = 3462 PID = 20 ppm
Sample date 10/1/97 Sample time 1400 METHOD: EPA 418.1

Sample Results

Soil: Benzene (ppm)	<u>*</u>	Water: Benzene (ppb)	<u>N/A</u>
Total BTEX (ppm)	<u>*</u>	Toluene (ppb)	<u>N/A</u>
Field Headspace (ppm)	<u>12</u>	Ethylbenzene (ppb)	<u>N/A</u>
TPH (ppm)	<u>25</u>	Total Xylenes (ppb)	<u>N/A</u>

* Substitute the field-head space test for the BTEX analysis

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: Kurt M. ... 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: *7-Oct-97*
COC No.: *6509*
Sample No.: *16508*
Job No.: *2-1000*

Project Name: *Jicarilla Apache 'I' Well #3 Sep. Pit*
Project Location: *JAI3-300; Sep Pit., Bottom Trench*
Sampled by: *DGM* Date: *1-Oct-97* Time: *14:00*
Analyzed by: *HR* Date: *3-Oct-97*
Sample Matrix: *Soil*

Laboratory Analysis

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

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
<i>Laboratory Fortified Blank Soil - QCBS2</i>	<i>ND.</i>	<i>ND</i>	<i>mg/kg</i>
<i>Laboratory Fortified Spike Soil - QCSS1</i>	<i>905</i>	<i>800-1200</i>	<i>mg/kg</i>

Duplication

Laboratory Identification	RPD	Limit RPD
<i>16508-6509</i>	<i><0.1</i>	<i>15.0</i>

Approved by:

Date:

[Signature]
10/8/97

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.: *16288*
Job No.: *2-1000*

Project Name: *Jicarilla Apache 'I' #3*
Project Location: *JAI3-100; Sep. Pit 4 Bank Comp.*
Sampled by: *DGM* Date: *23-Sep-97* Time: *13:30*
Analyzed by: *HR* Date: *29-Sep-97*
Sample Matrix: *Soil*

Laboratory Analysis

Parameter	Results as Received	Limit of Quantitation	Unit of Measure	Method
<i>Total Petroleum Hydrocarbons, TPH</i>	<i>3462</i>	<i>250</i>	<i>mg/kg</i>	<i>EPA Method 418.1</i>

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
<i>Laboratory Fortified Blank Soil - QCBS2</i>	<i>ND</i>	<i>ND</i>	<i>mg/kg</i>
<i>Laboratory Fortified Spike Soil - QCSS1</i>	<i>904</i>	<i>800-1200</i>	<i>mg/kg</i>

Duplication

Laboratory Identification	RPD	Limit RPD
<i>16287-6497</i>	<i>< LOQ</i>	<i>15.0</i>

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

100

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[illegible]

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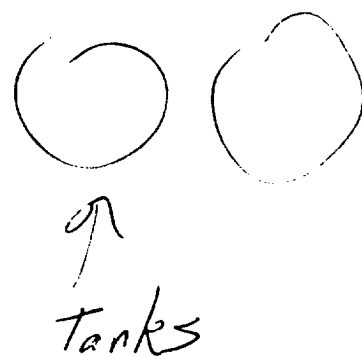
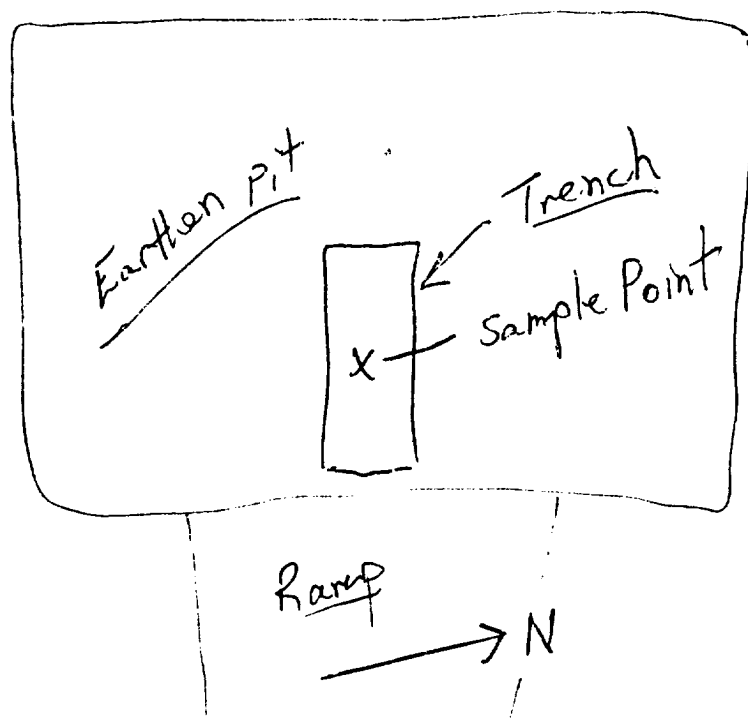
[illegible]

Tim Ridge
2/1/97
JAI 3

- arrived JAI #4; backhoe was digging to bedrock
- found JAI #5; b/w JAI3 & JAI4 on the right of road going from I4 to I3; this site is closed but the pit is fenced and ready to be pumped/remediated
- arrived JAI #3 to dig ramp and trench into pit to determine extent of contamination

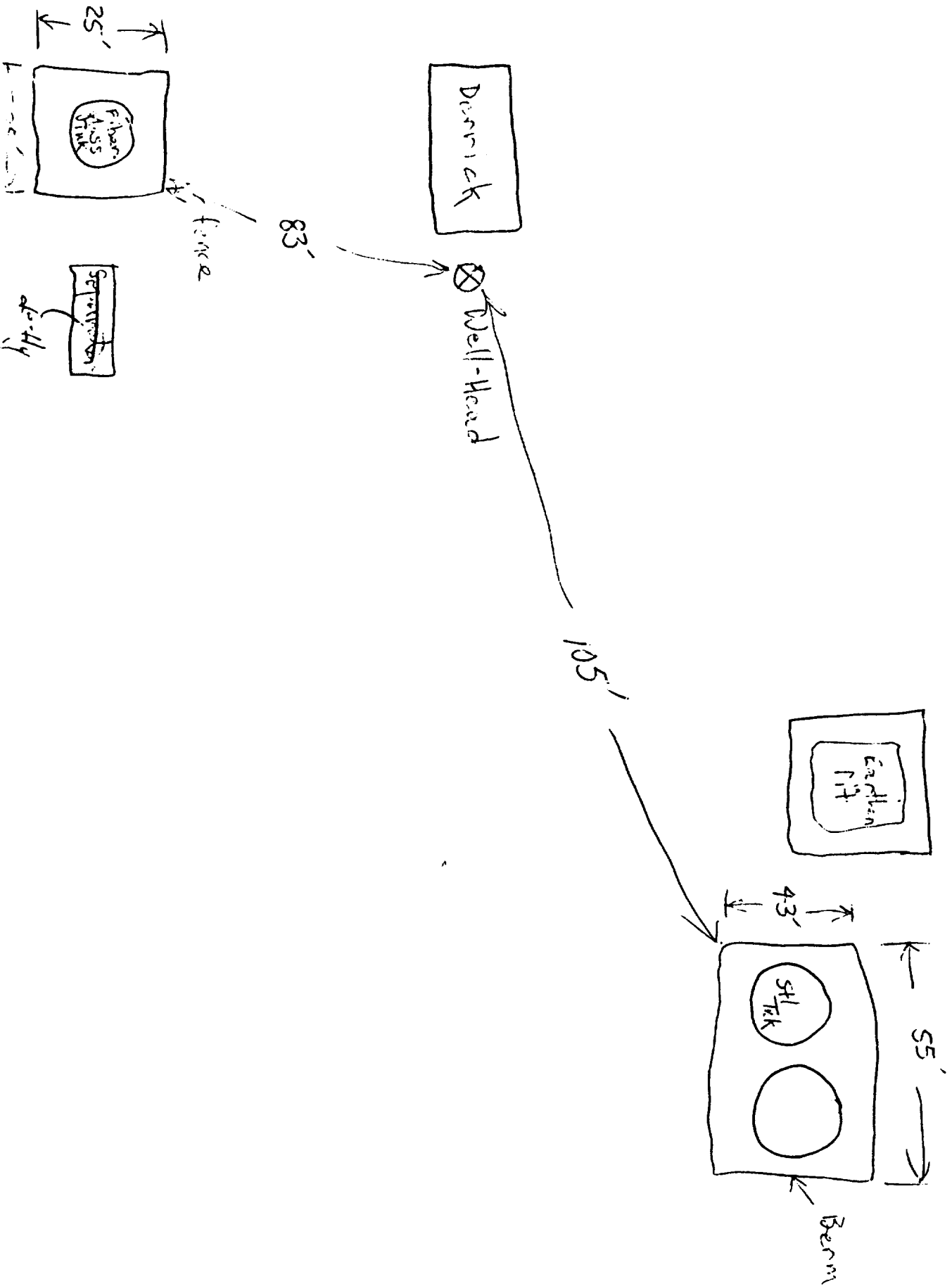
Sample No	Location	Depth	Conc	Remarks
1	Trench - Pit Bottom	15'	200+	
2	" " "	17'	86	
3	" " "	18'	10	
4	" " "	19'	12	this sample was a hard clay PID will be low = think.

I3-300



Elm Ridge
IH I #3
9/23/97

→ N



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: ELM RIDGE RESOURCES Telephone: (505) 326-7099
Address: 312 W. LA PLATA STREET, FARMINGTON, NM 87401
Facility or Well Name: JICARILLA APACHE "I" WELL 3
Location: Unit or Qtr/Qtr Sec 0 Sec 14 T 23N R 3W County Rio ARriba
Land Type: _____

Date Remediation Started: 9/22/97 Date Completed: 6/16/98
Remediation Method: Landfarmed X Approx. cubic yards 311
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
RANKING SCORE (TOTAL POINTS): 0

Final Closure Sampling:
Sampling Date: 6/16/98 Time: 1:00 PM
Sample Results:
Field Headspace (ppm) 89
TPH (ppm) GAS 0.33 Method BARSM
Other GAS 0.66 (ppm) DIE 1800
DIE 3400 (ppm) by EPA 8015 131 Pic (ppm)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF
DATE 7/1/98 PRINTED NAME STAWN 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) NOT for use as Backfill
SIGNED: [Signature] DATE: 7-27-98

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 30-Jun-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicariilla Apache "I" #3
Work Order:	9806075	Client Sample ID:	JAI3-503; Soil Farm North
Lab ID:	9806075-04A	Matrix:	SOIL
Project:	Pit Remediation	Collection Date:	6/16/98 1:00:00 PM
		COC Record:	6988

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	1800	25		mg/Kg	1	6/27/98
GASOLINE RANGE ORGANICS		SW8015				Analyst: DC
T/R Hydrocarbons: C6-C10	0.33	0.18		mg/Kg	1	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

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 30-Jun-98

Client:	Contract Environmental Services, Inc.	Client Sample Info:	Jicariilla Apache "I" #3
Work Order:	9806075	Client Sample ID:	JAI3-502; Soil Farm South
Lab ID:	9806075-03A	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	3400	25		mg/Kg	1	Analyst: HR 6/27/98
GASOLINE RANGE ORGANICS		SW8015				
T/R Hydrocarbons: C6-C10	0.66	0.18		mg/Kg	1	Analyst: DC 6/22/98

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 -



CHAIN OF CUSTODY RECORD

0988

Date: 6/10/98

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

Purchase Order No.:		Job No.		Name		Title	
SEND INVOICE TO		Name		Company		Mailing Address	
Address		City, State, Zip		Telephone No.		Telefax No.	
Sampling Location:		City, State, Zip		Telephone No. <td colspan="2">Telefax No.</td>		Telefax No.	
Sampler:		City, State, Zip		Telephone No. <td colspan="2">Telefax No.</td>		Telefax No.	
Sample Identification		DATE		SAMPLE TIME		PRES.	
JAS-1-SOL Soil from North		6/10/98		7:00P		20	
JAS-4-SOL Soil from West		"		1:30P		"	
JAS-3-SOL Soil from South		"		12:10P		"	
JAS-3-SOL Soil from North		"		1:00P		"	
JAS-7-SOL Soil from Composite		"		12:00P		"	
ANALYSIS REQUESTED		Number of Containers		Date/Time		Date/Time	
LAB ID		LAB ID		LAB ID		LAB ID	
Relinquished by:		Date/Time		Date/Time		Date/Time	
Relinquished by:		Date/Time		Date/Time		Date/Time	
Relinquished by:		Date/Time		Date/Time		Date/Time	
Method of Shipment:		Rush		24-48 Hours		10 Working Days	
Authorized by:		Date		Date		Date	
(Client Signature Must Accompany Receipt)		Date		Date		Date	

