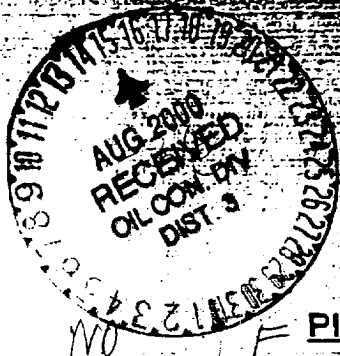




ENVIRONMENTAL PROTECTION

P.O. BOX 807
DULCE, NEW MEXICO 87528

PIT REMEDIATION AND CLOSURE REPORT

Operator: Robert L. Bayless, Telephone: 326-2659
Address: 368 170 Farmington NM 87401
Facility or Well Name: Jicarilla 65 B 1
Location: Unit 10 Sec. 15 T. 25 N. R. 4 W. County Rio Arriba
Pit Type: Separator ☒ Dehydrator ☐ Other ☐
Land Type: Jicarilla Aoache

Pit Location: Pit dimensions: length 50 width 35 depth 24
(Attach diagram) Reference: wellhead ☒ other ☐
Footage from reference: 75'
Direction from reference: 45° Degrees ☐ East ☐ North ☐
☒ West ☐ South

Depth to Ground Water: (Vertical distance from consummation to seasonal high water elevation or ground water) Less than 50 feet (20 points) 0
50 feet to 99 feet (10 points) 0
Greater than 100 feet (0 points) 0
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources) Yes (20 points) 0
No (0 points) 0
Distance to Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches) Less than 200 feet (20 points) 0
200 feet to 1,000 feet (10 points) 0
Greater than 1,000 feet (0 points) 0
Distance to Ephemeral Stream (dry wash): (Horizontal distance to all downgradient streams having a width of at least 10 feet) Less than or equal to 100 feet (10 points) 0
Greater than 100 feet (0 points) 0
Distance to Nearest Lake, Playa, or Watering Pond: (Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds) Less than or equal to 100 feet (10 points) 0
Greater than 100 feet (0 points) 0

RANKING SCORE (TOTAL POINTS): 0

Date Remediation Started: 11-20-97 Date Completed: 11-21-97

Remediation Method: Excavation X Approx. Cubic Yards 40 truck

(Check all appropriate sections)

Landfarmed _____ Amount Landfarmed (cubic yds): _____

Other _____

Remediation Location: Onsite _____ Offsite Jicarilla landfarm

(i.e., landfarmed onsite, name and location of offsite facility)

General Description of Remedial Action:

Moved to location Took down fence. Excavated pit to a depth of 24' and hit sandstone could dig any deeper. Took readings and bottled samples

Ground Water Encountered: No X Yes _____ Depth _____

Final Pit Closure Sampling:

Sample Location Bottom + Center

(if multiple samples, attach sample result and diagram of sample locations and depths.)

Sample depth 24'

Sample date 11-21-97 Sample time 3:30

Sample Results

Soil: Benzene (ppm) _____ Water: Benzene (ppb) _____

Total BTEX (ppm) 850 ppb Toluene (ppb) _____

Field headspace (ppm) 297 Ethylbenzene (ppb) _____

TPH 2959 ppm Method 418.1 Total Xylenes (ppb) _____

Ground Water 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 MY BELIEF

DATE 11-21-97 PRINTED NAME Dave Sims

SIGNATURE Dave Sims AND TITLE Project Manager

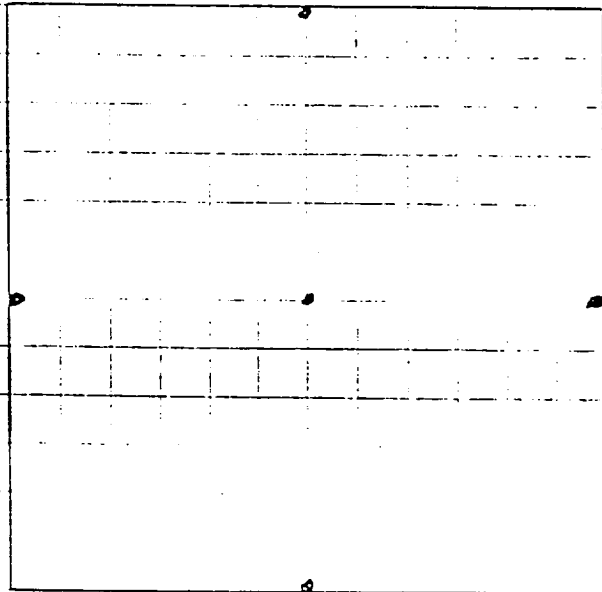
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.

APPROVED: YES X NO _____ (REASON): _____

SIGNED: Ken C. Man DATE: 2-6-98

Location: Tikarilla 65 B 1

Depth: 24



• Denotes sample location

Samples:

North : 125

South : 1

East : 10

West : 7

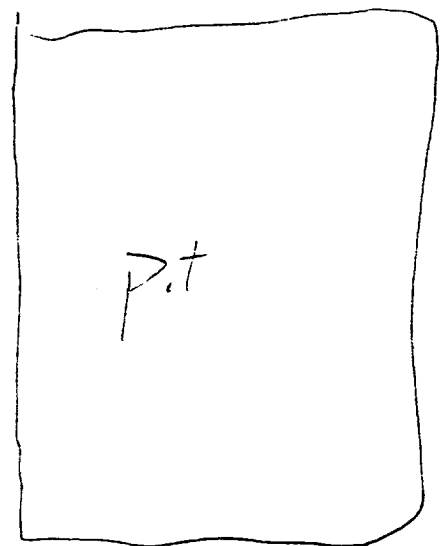
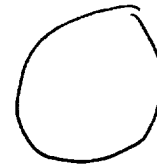
Bottom : 297

Jicerilla 65 B 1

N

Wellhead
○

○
tanks



11-21-97

Jicarilla 65 B1

Moved to location
took down fence

Excavated pit to a depth of 24' and
hit sandstone. All dirt excavated was
trucked to Jicarilla land farm.

Took readings
Bottled samples

OFF: (505) 325-3667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *David Sims*
Company: *Arrowhead*
Address: *P.O. Box 2522*
City, State: *Farmington, NM 87499-2522*

Date: *1-Dec-97*
COC No.: *6594*
Sample No.: *16346*
Job No.: *2-1000*

Project Name: *RMI / Arrowhead*
Project Location: *Jicarilla 65-B1 Bottom*
Sampled by: *WM*
Analyzed by: *DC*
Sample Matrix: *Soil*

Date: *21-Nov-97* Time: *15:30*
Date: *26-Nov-97*

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>	8	ug/kg	2	ug/kg
<i>Ethylbenzene</i>	72	ug/kg	2	ug/kg
<i>m,p-Xylene</i>	615	ug/kg	2	ug/kg
<i>o-Xylene</i>	155	ug/kg	2	ug/kg
	<i>TOTAL</i>	<i>6 850</i>		<i>ug/kg</i>

ND - Not Detected at Limit of Quantitation

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

Approved by: *[Signature]*
Date: *12/1/97*

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: **David Sims**
Company: **Arrowhead**
Address: **P.O. Box 2522**
City, State: **Farmington, NM 87499-2522**

Date: **1-Dec-97**
COC No.: **6594**
Sample No.: **16946**
Job No.: **2-1000**

Project Name: **RMI / Arrowhead**
Project Location: **Jicarilla 65-B1 Bottom**
Sampled by: **WM**
Analyzed by: **HR**
Sample Matrix: **Soil**

Date: **21-Nov-97** Time: **15:30**
Date: **1-Dec-97**

Laboratory Analysis

Parameter	Results as Received	Limit of Quantitation	Unit of Measure	Method
Total Petroleum Hydrocarbons, TPH	2959	250	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	849	800-1200	mg/kg

Duplication

Laboratory Identification	RPD	Limit RPD
16974-6596	7.5	15.0

Approved by:

Date:

[Signature]
12/1/97

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: *David Sims*
Company: *Arrowhead*
Address: *P.O. Box 2522*
City, State: *Farmington, NM 87499-2522*

Date: *26-Nov-97*
COC No.: *6594*
Sample No.: *13943*
Job No.: *2-1000*

Project Name: *RMI / Arrowhead*
Project Location: *Jicarilla 65-B1 Composite*
Sampled by: *WM*
Analyzed by: *DC*
Sample Matrix: *Soil*

Date: *21-Nov-97* Time: *15:30*
Date: *24-Nov-97*

Laboratory Analysis

Parameter	Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
<i>Benzene</i>	ND	ug/kg	1	ug/kg
<i>Toluene</i>	ND	ug/kg	1	ug/kg
<i>Ethylbenzene</i>	2	ug/kg	1	ug/kg
<i>m,p-Xylene</i>	13	ug/kg	1	ug/kg
<i>o-Xylene</i>	3	ug/kg	1	ug/kg
	<i>TOTAL</i>	19		ug/kg

ND - Not Detected at Limit of Quantitation

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

Approved by: *JAC*

Date: *11/26/97*

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn: **David Sims**
Company: **Arrowhead**
Address: **P.O. Box 2522**
City, State: **Farmington, NM 87499-2522**

Date: **1-Dec-97**
COC No.: **6594**
Sample No.: **16945**
Job No.: **2-1000**

Project Name: **RMI / Arrowhead**
Project Location: **Jicarilla 65-B1 Composite**
Sampled by: **WM**
Analyzed by: **HR**
Sample Matrix: **Soil**

Date: **21-Nov-97** Time: **15:30**
Date: **1-Dec-97**

Laboratory Analysis

Parameter	Results as Received	Limit of Quantitation	Unit of Measure	Method
Total Petroleum Hydrocarbons, TPH	380	25	mg/kg	EPA Method 418.1

ND - Not Detected at Limit of Quantitation

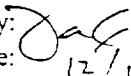
Quality Assurance Report

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	849	800-1200	mg/kg

Duplication

Laboratory Identification	RPD	Limit RPD
16974-6596	7.5	15.0

Approved by: 
Date: **12/1/97**