OK

Denny S. Fourt
DEPUTY OIL & GAS INSPECTOR

JICARILLA APACHE TRIBE

**ENVIRONMENTAL PROTECTION OFFICE** 

SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL -GAS ADMINISTRATION

FEB 0 8 1999

P.O. BOX 507 DULCE, NEW MEXICO 87528

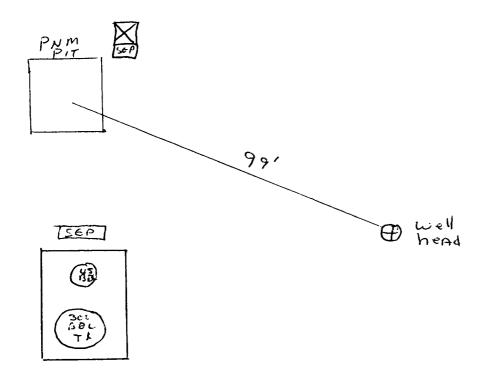
# PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services ( BROG	
Address: 603 W. Elm Street Farmington, NM 87	401
Facility or Well Name: JICARILL G-8A	
Location: Unit: P Sec. 2	T. <u>26 N</u> R. <u>5 W</u> County Rio Arriba
Pit Type: Separator X Dehydrator	Other
Land Type:	
Pit Location: Pit dimensions: length	20 width 20 depth 5
(Attach diagram) Reference: wellhead	other
Footage from reference:	991
Direction from reference: 4	_ · _ / <del>_</del>
	X West South
Depth to Ground Water: (Vertical distance from contaminants to seasonal high water elevation of	Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet (0 points)
Wellhead Protection Area: (Less than 200 feet from a private domestic	Yes (20 points) No (0 points)
water source, or less than 1,000 feet from all other water sources)  Distance to Surface Water:  (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, wrigation canals and ditches)	Less than 200 feet (20 points) 200 feet to 1,000 feet (10 points) Greater than 1,000 feet (0 points)
Distance to Ephemeral Stream (dry wash):  (Horizontal distance to all downgradient streams having a width of at least 10	Less than or equal to 100 feet (10 points) Greater than 100 feet (0 points)
feet)  Distance to Nearest Lake, Playa, or Watering  Pond: (Horizontal distance to all downgradient lakes, playas, and livestock or wildlife	Less than or equal to 100 feet (10 points) Greater than 100 feet (0 points)
water ponds)	

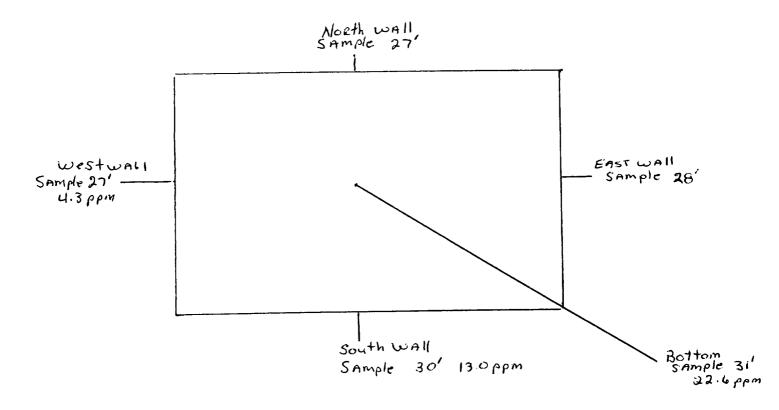
Date Remediation Started	: 4/23)98	Date Completed:	7/28/98
Remediation Method:	Excavation X	Approx. Cubic Yards	2149
(Check all appropriate	Landfarmed X	Amount Landfarmed (cub	oic yds): 2149
sections)	Other		
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite X	Offsite	
General Description of R	1	0 -	1 11
Memoved Con	taminated Soil Fi	ROM ALL FOUR SI	de walls head
Space reading	· · · · · · · · · · · · · · · · · · ·	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	/ 11 1 V
Ground Water Encounter	red: No X	es Depth _	
Final Pit Closure Sampling:	Sample Location Nosti	bottom of PII	st side walls
(if multiple samples, attach sample result and diagram of	Sample depth 31	<del></del>	
sample locations and depths.)	Sample date $\frac{4/39/9}{}$	Sample time	1057
S	ample Results		
Soil: B	enzene (ppm)	Water: Benzene	(ppb)
Т	otal BTEX (ppm	Toluene	(ppb)
F	ield headspace (ppm)	( 'XX, 6	ene (ppb)
т	PH <u>38 ppm</u> Method	8015 Total Xyle	nes (ppb)
Ground Water Sample	: Yes N	o $\chi$ (If yes, attach	sample results)
I HEREBY CERTIFY THAT KNOWLEDGE AND MY BI	THE INFORMATION ABOVE	IS TRUE AND COMPLETE TO	THE BEST OF MY
DATE <u>5/12</u>	/ <u>98</u> P	RINTED NAME Roy Burnha	am
SIGNATURE Ray Ru	unho-	AND TITLE Environmenta	l Technician II
	PIT CLOSURE INFORMATION TRIBE PIT CLOSURE ORDINA		D IN ACCORDANCE
APPROVED: YES	NO (REA	SON):	
SIGNED:	Manull -	DATE: 5-13-19	98

JICHRILL G-SA Sec 2 TZEN RSW unit P

SITE DRAWING



# EXCAUATION DRAwing



5' 989 ppm 10' 1750 ppm 15' 1525 ppm 20' 1236 ppm 25' 350 ppm 30' 175 ppm 31' 22.6ppm



**CLIENT:** 

LAB: (505) 325-1556

On Site Technologies, LTD.

PNM - Public Service Company of NM

**Project:** PNM Pit Remediation

**Lab Order:** 9804062

**CASE NARRATIVE** 

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

ON SITE
TECHNOLOGIES, LTD.

OFF: (505) 325-5667

LAB: (505) 325-1556

#### ANALYTICAL REPORT

Date: 06-May-98

Client:

PNM - Public Service Company of NM

Work Order:

9804062

9804062-02A

Matrix: SOIL

Lab ID: Project:

PNM Pit Remediation

Client Sample Info: Jicarilla G-8A

Client Sample ID: 9804291057; 3pt. Bottom

Collection Date: 4/29/98 10:57:00 AM

COC Record: 7150

Parameter	Result	PQL (	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	SV 38	<b>V8015</b> 25	mg/Kg	1	Analyst: <b>DC</b> 4/30/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

• Table of a Signification of

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

I of I



LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 06-May-98

Client:

PNM - Public Service Company of NM

Work Order:

9804062

9804062-01A

Matrix: SOIL

Lab ID: Project:

PNM Pit Remediation

Client Sample Info: Jicarilla G-8A

Client Sample ID: 9804291056; 4pt. Composite (SIDEWALLS)

Collection Date: 4/29/98 10:56:00 AM

COC Record: 7150

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SV	V8015			Analyst: DC
T/R Hydrocarbons: C10-C28	33	25	mg/Kg	1	4/30/98

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

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R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

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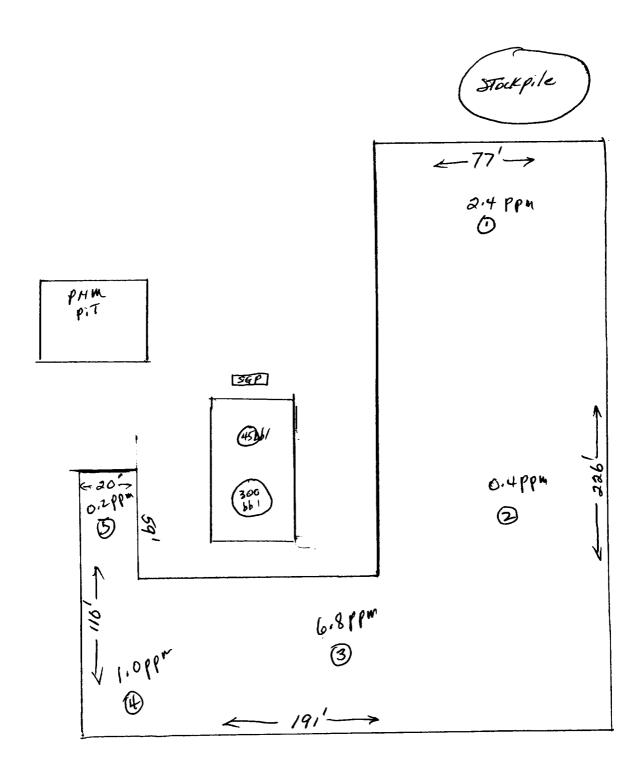
JICARILLA APACHE TRIBE
ENVIRONMENTAL
PROTECTION OFFICE
P.O. BOX 507
DULCE, NEW MEXICO 87528

SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL GAS ADMINISTRATION

## **ON-SITE SOIL REMEDIATION REPORT**

Operator: PNM Gas Services (BROG ) 1	Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401	
Facility or Well Name: JICARINA G-8A	
Location: Unit: P Sec. 2 T. 3	R. S W County Rio Arriba
Land Type: Jicarilla Apache	
Date Remediation Started: 4/23/98  Remediation Method: Landfarmed X  Composted Other	Date Completed: 4/17/98 Approx. cubic yards 7/4
Depth to Ground Water:  Distance to an Ephemeral Stream:  Distance to Nearest Lake, Playa, or Watering Pond:  Wellhead Protection Area:  Distance to Surface Water:  Ranking Score (Total Points):	Final Closure Sampling:  Sampling Date: $\frac{6/15/98}{15/98}$ Time $\frac{0.850}{0.850}$ Sampling Results:  Field Headspace (ppm) $\frac{6.8}{0.85}$ TPH $\frac{9.0}{0.95}$ (ppm) $\frac{90}{0.95}$ Method $\frac{8015}{0.95}$
THEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND CONTROL OF THE PRINTED NAME OF	D. D. orboro
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE  APPROVED: YES NO (REASON) DATE	use as Berekfill

# LAND FARM DRAWING





LAB: (505) 325-1556

### On Site Technologies, LTD.

Date: 22-Jun-98

**CLIENT:** 

PNM - Public Service Company of NM

Project:

Jicarilla Landfarm

Lab Order:

9806065

**CASE NARRATIVE** 

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

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LAB: (505) 325-1556

#### ANALYTICAL REPORT

Date: 22-Jun-98

Client:

PNM - Public Service Company of NM

Work Order:

9806065

Lab ID:

9806065-01A

Matrix: SOIL

Project:

Jicarilla Landfarm

Client Sample Info: Jicarilla G-8A Landfarm #1

Client Sample ID: 9806150850; 5pt. Comp.

Collection Date: 6/15/98 8:50:00 AM

COC Record: 7046

Parameter	Result	PQL	Qual Units	DF	Date Analyzed	-
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	<b>SV</b> 90	<b>V8015</b> 25	mg/Kg	1	Analyst: <b>HR</b> 6/17/98	

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

SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL -GAS ADMINISTRATION

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



# ON-SITE SOIL REMEDIATION REPORT

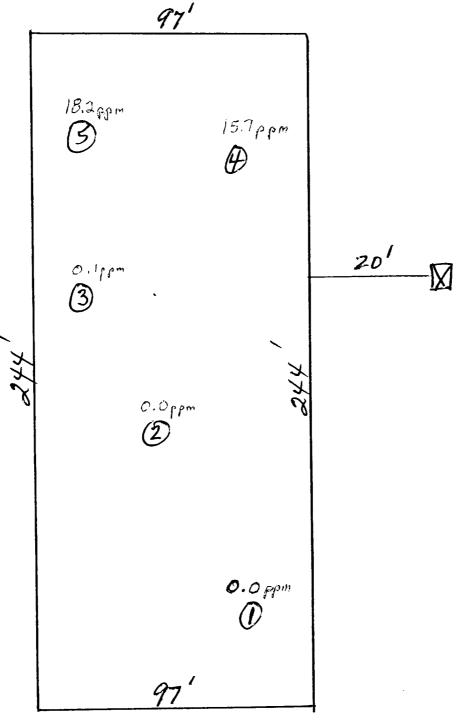
Operator: PNM Gas Services ( $\beta \hat{R} \mathcal{O} \mathcal{G}$ )	Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401	
Facility or Well Name: TICARILLA G-8A	
Location: Unit or Qtr/Qtr Sec: $\widehat{\mathcal{F}}$ Sec. $\underline{\mathbb{Z}}$ T.	. 26N R. 5 W County Rio Arriba
Land Type: JICHRING APAChe	
Date Remediation Started: 4/33/98	Date Completed: 7/14/98
Remediation Method: Landfarmed	Approx. cubic yards
Composted	
Depth to Ground Water: (pts.)	Final Closure Sampling:
Distance to an Ephemeral Stream: (pts.)	Sampling Date: $7/7/98$ Time $0.803$
Distance to Nearest Lake, Playa, (pts.)	Sampling Results:
Wellhead Protection Area: (pts.)	Field Headspace (ppm) 18,3
Distance to Surface Water: (pts.)	TPH (ppm) <u>3.8</u> Method <u>80.5</u>
Ranking Score (Total Points):	Other
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND C	COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF
DATE 7/14/98 PRINTED NAI	ME Roy Burnham
SIGNATURE Roy Burnham AND	TITLE Environmental Technician II
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITI JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE  APPROVED: YES NO (REASON)	E REMEDIATION APPROVED IN ACCORDANCE TO THE
SIGNED: VES NO (REASON)  DATE	h 0.5 9//

JICARILIA 6-BA

BURLINGTON

UNIT P SECZ TZGN R-5W

LANDFARM # 2





LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 14-Jul-98

Client:

PNM - Public Service Company of NM

Work Order:

Lab ID:

Project:

9807018

Landfarms

9807018-03A

Matrix: SOIL

Client Sample Info: Jicarilla G-8A #2 LF

Client Sample ID: 9807070803; 5pt. Comp

**Collection Date:** 7/7/98 8:03:00 AM

COC Record: 7261

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	SV 38	<b>V8015</b>	mg/Kg	1	Analyst: <b>DC</b> 7/14/98

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



LAB: (505) 325-1556

Date: 14-Jul-98

### ANALYTICAL REPORT

Client:

PNM - Public Service Company of NM

Matrix: SOIL

Work Order:

9807018

Lab ID: Project:

9807018-04A

Landfarms

Client Sample Info: Jicarilla G-8A #2 RD LF

Client Sample ID: 9807070813; 5pt. Comp

Collection Date: 7/7/98 8:13:00 AM COC Record: 7261

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	SV 28	<b>V8015</b>	mg/Kg	1	Analyst: <b>DC</b> 7/14/98

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

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SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL GAS ADMINISTRATION

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

ON-SITE SOIL REMEDIATION REPORT #3

Operator:	PNM Gas Services	(BROG)	Telephone:	324-3764
Address:	603 W. Elm Street Farmington	n, NM 87401		
Facility or W	Vell Name: JICAR	11/a G-8A		
Location:	Unit:	Sec. 2 T.	26N R.	5 W County Rio Arriba
Land Type:	Jicarilla Apache			
Date Remediat	ion Started: 4/	23/98	Date Complete	d: 7/21/98
Remediation N	lethod: Landfarmed	<u>X</u>	Approx. cubic yar	ds <u>7/7</u>
	Composted			
	n Ephemeral Stream: learest Lake, Playa,	(pts.)	Sampling D Sampling R	
	etection Area:	(pts.) <u></u>	Field Hea	dspace (ppm) 1/. 9
Distance to S	Surface Water:	(pts.) <u>Ø</u>	TPH Other	(ppm) <u>64</u> Method <u>8015</u>
Ranking	Score (Total Points):	<u> 6</u>	Other _	
I HEREBY CE			O COMPLETE TO TH	E BEST OF MY KNOWLEDGE AND BELIEF
DATE	7/26/98	PRINTED N	NAME Roy Burni	nam
SIGNATURE	7/26/98 Ray Burnhan	~ AN	ND TITLE Enviro	onmental Technician II
AFTER REVIE JICARILLA AI APPROVED: SIGNED:	PACHE TRIBE PIT CLOSURE (	ORDINANCE  (REASON)	use a	APPROVED IN ACCORDANCE TO THE  A RECEKTIVE  28-98

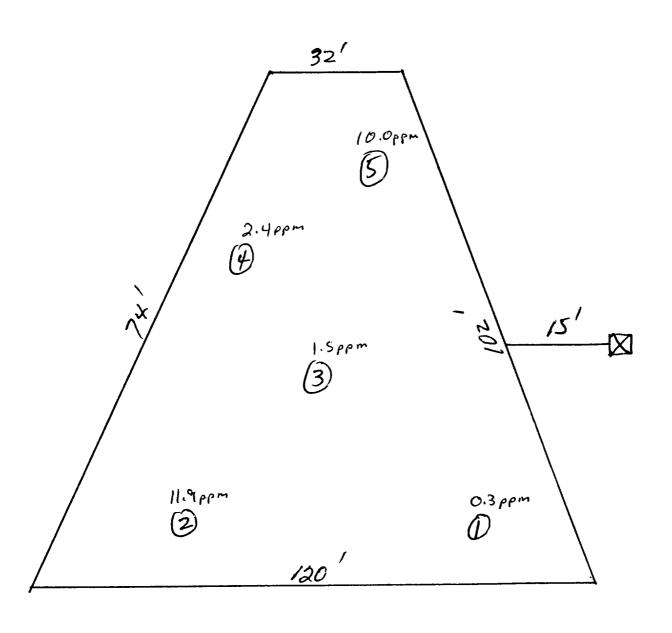
SICARILIA G-8A

BURLINGTON

UNIT P SEC 2 T-26N R-5W

LANDFARM #3 ON BALWEST)







LAB: (505) 325-1556

## On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

PNM Pit Remediation

Lab Order:

9807043

**CASE NARRATIVE** 

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.



LAB: (505) 325-1556

### ANALYTICAL REPORT

Date: 23-Jul-98

Client:

PNM - Public Service Company of NM

Work Order:

9807043

Lab ID:

9807043-03A

Matrix: SOIL

**Project:** 

PNM Pit Remediation

Client Sample Info: Jicarilla G-8A #3 LF

Client Sample ID: 9807151511; 5pt. Composite

Collection Date: 7/15/98 3:11:00 PM

COC Record: 7266

Parameter	Result	PQL (	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	<b>SV</b> 64	V801 <b>5</b> 25	mg/Kg	1	Analyst: <b>HR</b> 7/21/98

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