DEPUTY OIL 4 SINSPECTOR ENVIRONMENTAL PROTECTION OFFICE

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

DEPUTY OF A WEST MISPECTOR ENVIRONMENTAL	PROTECTION OFFICE	AND OIL GAS ADMINISTRATION
	BOX 507	5 1 2
DULCE, NEW	/ MEXICO 87528	RIEX
AM rived	NE AL COURT REPORT	73 / /- / *
PIT REMEDIATION A	ND CLOSURE REPORT	
Operator: PNM Gas Services (A MCC	C) Telephone: 32	4-3764
Address: 603 W. Elm Street Farmington, NM 87	401	
Facility or Well Name: Sichrilla April	che Tribal 151-8E	
Location: Unit: 3 Sec. 3	T. <u>alaN</u> R. <u>5 W</u> County	Rio Arriba
Pit Type: Separator Dehydrator	X Other	
		
Land Type: Jicarilla Apache		
Pit Location: Pit dimensions: length	スピ width スロ de	epth 3
(Attach diagram) Reference: wellhead	d <u>×</u> other	
Footage from reference:	75'	
Direction from reference:	5 Degrees East Nor	th
	West Sou	ıth
Depth to Ground Water:		(20 points)
(Vertical distance from contaminants to seasonal high water elevation of		(10 points) (0 points)
ground water)		(20 points)
Wellhead Protection Area:		(0 points)
(Less than 200 feet from a private domestic water source, or less than 1,000 feet from all other water sources)		
Distance to Surface Water:	Less than 200 feet	(20 points)
(Horizontal distance to perennial	200 feet to 1,000 feet Greater than 1,000 feet	(10 points)
lakes, ponds, rivers, streams, creeks, angation canals and ditches)	Cicater than 1,000 leat	(e perme)
Distance to Ephemeral Stream (dry wash):	Less than or equal to 100 feet Greater than 100 feet	(10 points) (0 points)
(Horizontal distance to all downgradient streams having a width of at least 10	Gleater than 100 leet	(0 points)
Distance to Nearest Lake, Playa, or Watering	Less than or equal to 100 feet	(10 points)
Pond:	Greater than 100 feet	(0 points)
(Horizontal distance to all downgradient lakes, playas, and livestock or wildlife		
water ponds)		ď
	RANKING SCORE (TOTAL POINTS	

Date Remediation Started	: 5/28/98	Date Completed:	9/23/98
Remediation Method:	Excavation	_ Approx. Cubic Yards	1.30
(Check all appropriate	Landfarmed X	Amount Landfarmed (cubic	c yds): <u>630</u>
sections)	Other		
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite X	Offsite	
General Description of R Removed Walls As to Bottom of Excavation Ground Water Encounte	contaminated So s get a below 1 Pit was solid size 45'x 27'x 14	rock 3PT C	four side space reading, omposite of Rock
			+ - : 1
Final Pit Closure Sampling:	Sample Location North		cf Pit
(if multiple samples, attach sample result and diagram of sample locations and depths.)	Sample depth 1 4 ' Sample date 6 / 17 8	Sample time	1506
, ,	Sample Results		
Soil: E	Benzene (ppm) <u>のし</u>	Water: Benzene (p	opb)
Т	otal BTEX (ppm /07./2	Toluene (p	opb)
	ield headspace (ppm) 1447 470 PH NDER ppm Method _	Ethylbenze Total Xylen	
Ground Water Sample		(If yes, attach	sample results)
I HEREBY CERTIFY THA KNOWLEDGE AND MY B DATE 4/2	100	RUE AND COMPLETE TO T	
SIGNATURE Ry	15umm AND	TITLE Environmental	Technician II
	E PIT CLOSURE INFORMATION, PI TRIBE PIT CLOSURE ORDINANCE		IN ACCORDANCE
APPROVED: YES		1): R.A. Attac	Lecl
SIGNED: Kow	C Month DAT	E: <u>7-28-98</u>	

JICARILL APACHE TRIBAL 151-3 SEC-3 TRUM RSW UNIT B

Site DRAWING

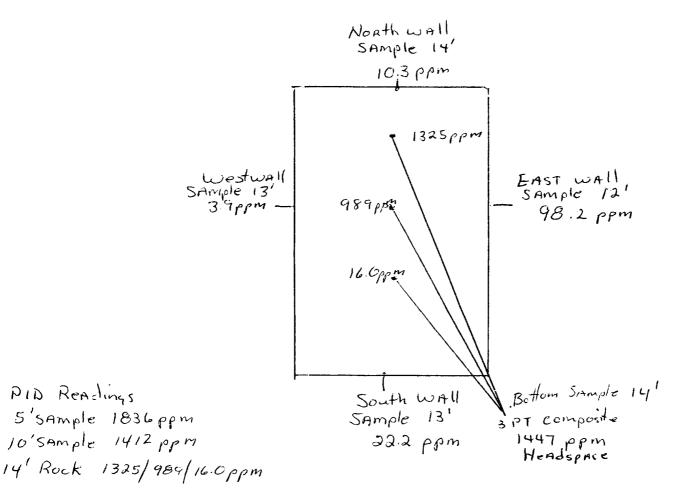
SEPT

Well head

TS'

Meter
House

PID Readings





LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 04-Jun-98

CLIENT:

PNM - Public Service Company of NM

Project:

Jicarilla

Lab Order:

9806005

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.

reconnection of the section



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 04-Jun-98

Client:

PNM - Public Service Company of NM

Work Order:

9806005

Jicarilla

Lab ID: Project: 9806005-02A

Matrix: SOIL

Client Sample Info: Jic. Apache Tribal 151-8E

Client Sample ID: 9806011506; 3pt. Comp. Collection Date: 6/1/98 3:06:00 PM

COC Record: 7156

Result	PQL	Qual Units	DF	Date Analyzed
SW8015			Analyst: HR	
470	25	mg/Kg	1	6/3/98
SI	N8020A			Analyst: DC
620	250	μg/Kg	250	6/3/98
26000	500	μg/Kg	250	6/3/98
5500	250	μg/Kg	250	6/3/98
63000	500	µg/Kg	250	6/3/98
12000	250	μg/Kg	250	6/3/98
107,120) . pf			
	470 470 620 26000 5500 63000 12000	SW8015 470 25 SW8020A 620 250 26000 500 5500 250 63000 500	SW8015 470 25 mg/Kg SW8020A 620 250 µg/Kg 26000 500 µg/Kg 5500 250 µg/Kg 63000 500 µg/Kg 12000 250 µg/Kg	SW8015 470 25 mg/Kg 1 SW8020A 620 250 μg/Kg 250 26000 500 μg/Kg 250 5500 250 μg/Kg 250 63000 500 μg/Kg 250 12000 250 μg/Kg 250

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr: - Surrogate

1 of 1

Client:



LAB: (505) 325-1556

Date: 04-Jun-98

ANALYTICAL REPORT

PNM - Public Service Company of NM

Work Order: 9806005

Lab ID: 9806005-01A

Project: Jicarilla

Matrix: SOIL

Client Sample Info: Jic. Apache Tribal 151-8E Client Sample ID: 9806011505; 4pt. Comp.

Collection Date: 6/1/98 3:05:00 PM

COC Record: 7156

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

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



Well Name:
Well Legals:
Pit Type:
Horizontal Distance to Surface Water:
Groundwater Depth:

Jicarilla Apache Tribal 151-8E Unit B, Sec 3, T26N, R5W Dehydrator Greater than 1,000 ft Greater than 100 ft

RISK ANALYSIS

PNM requests closure of their former pit on the Jicarilla Apache Tribal 151-8E well site using a limited risk analysis based on the following conditions:

 Groundwater is estimated to be at a depth of 236 feet based upon the elevation of the site and the elevation of the nearest "named" wash (Cereza Canyon). (Reference: Vigas Canyon series 7.5 minute topographic map.)

1931)

- 2. The site is located outside of the "vulnerable area" as defined under OCD Order No. R-7940-C.
- 3. The site is not located within 200 feet of a domestic water well and is not within 1,000 feet of any other water source.
- 4. PNM excavated 630 cubic yards of soil from the former pit. Subsurface lateral contamination has been remediated (see attached map and analytical results for the side wall profiles). Source removal minimizes the possibility of surface water contamination.
- 5. Bedrock was encountered at 14 feet below ground surface. Bedrock/sandstone provides a barrier between remaining contamination and groundwater. Vertical migration through bedrock or sandstone to groundwater is unlikely.
- 6. PNM excavated and performed remediation to the maximum depth and horizontal extent practicable.

PNM believes their former pit on the Jicarilla Apache Tribal 151-8E well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 800 pits.

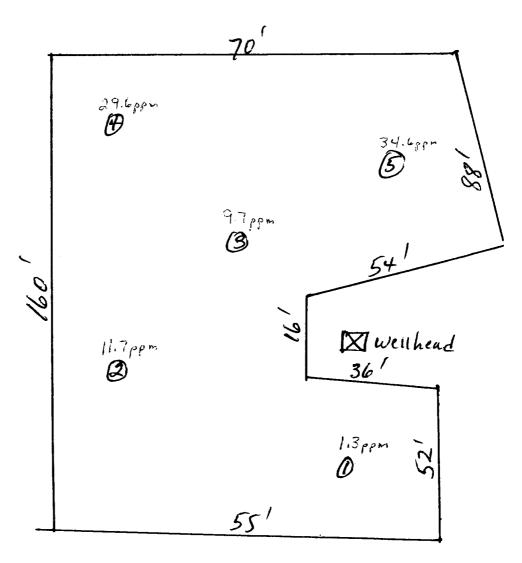
SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL GAS ADMINISTRATION

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

ON-SITE SOIL REMEDIATION REPORT #/

Operator: PNM Gas Services (Amoco)	Telephone: 324-3764				
Address: 603 W. Elm Street Farmington, NM 87401					
Facility or Well Name: Jicarilla Apache	TRIBAL 151-86				
Location: Unit: Sec. 3 T.	26 N R. 5 W County Rio Arriba				
Land Type: Jicarilla Apache					
Date Remediation Started: 5/28/98	Date Completed: フ/ノイ/ラジ				
Remediation Method: Landfarmed	Approx. cubic yards 315				
Composted Other					
	20.00				
Depth to Ground Water: (pts.)	Final Closure Sampling:				
Distance to an Ephemeral Stream: (pts.)	Sampling Date: $\frac{7/7/98}{}$ Time $\frac{(2902)}{}$				
Distance to Nearest Lake, Playa, (pts.) ϕ	Sampling Results:				
Wellhead Protection Area: (pts.)	Field Headspace (ppm) <u>3 4 , ζ</u>				
Distance to Surface Water: (pts.)	TPH (ppm) <u>35</u> Method <u>多の15</u>				
Ranking Score (Total Points):	Other				
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF					
DATE 7/12/98 PRINTED NAME Roy Burnham					
SIGNATURE ROY BURNAME ROY BURNAME AND TITLE Environmental Technician II					
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE					
APPROVED: YES NO (REASON)	use as Backfull				
SIGNED: Lea C Man DA	TE: 8-18-98				

JICARIIIA APACHE TRIBAL 151-8E
AMOCO
UNIT B SEC 3 TZ6XI R 5W
LAND FARM # 1



LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT: PNM - Public Service Company of NM

Project: Landfarms

Lab Order: 9807018

CASE NARRATIVE

Date: 14-Jul-98

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.

COMPANY OF THE LIGHT MARKET -

ON SITE
TECHNOLOGIES, LTD.

OFF: (505) 325-5667

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 14-Jul-98

Client:

PNM - Public Service Company of NM

Work Order:

9807018

Lab ID: 9807018-05A

Matrix: SOIL

Project:

Landfarms

Client Sample Info: Jic. Apache Tribal 151-8E LF #1

Client Sample ID: 9807070902; 5pt. Comp

Collection Date: 7/7/98 9:02:00 AM

COC Record: 7261

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	SV 35	V8015 25	mg/Kg	1	Analyst: DC 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

1 of 1

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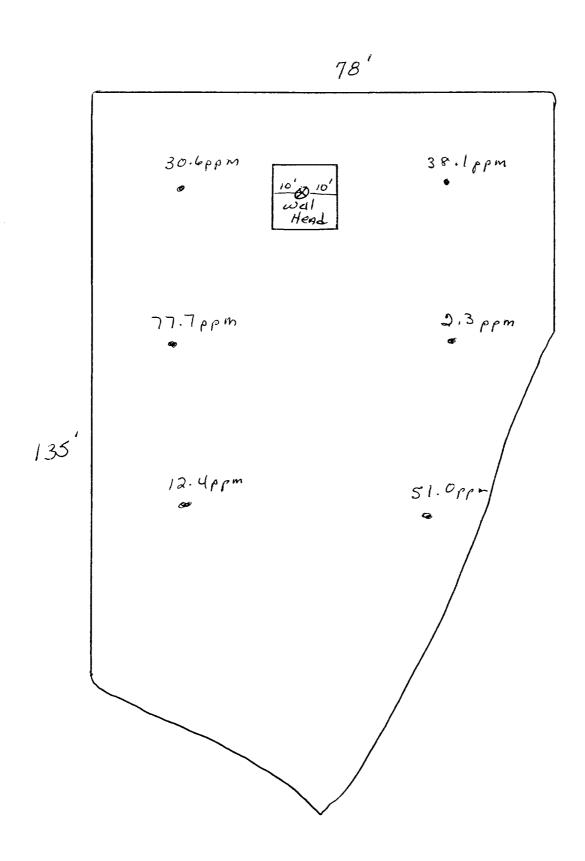
JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P.O. BOX 507 DULCE, NEW MEXICO 87528

ON-SITE SOIL REMEDIATION REPORT #2

Operator: PNM Gas Services (Amoco	
Address: 603 W. Elm Street Farmington, NM 87401	
Facility or Well Name:	the Tribal 151-8E
Location: Unit: B sec. 3	T. 26 N R. 5 W County Rio Arriba
Land Type: Jicarilla Apache	
Date Remediation Started: $5/28/98$	Date Completed: $9/3/98$
Remediation Method: Landfarmed Composted Other	Approx. cubic yards 315
Depth to Ground Water: (pts.)	Final Closure Sampling:
Distance to an Ephemeral Stream: (pts.)	Sampling Date: $8/31/96$ Time 0915
Distance to Nearest Lake, Playa, (pts.) \mathcal{G} or Watering Pond:	Sampling Results:
Wellhead Protection Area: (pts.)	
Distance to Surface Water: (pts.)	TPH (ppm) 34 Method 8075
Ranking Score (Total Points):	Other
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE	AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF
DATE 9/14/98 PRINTE	D NAME Roy Burnham
DATE 9/14/98 PRINTE SIGNATURE Ray Burnha	AND TITLE Environmental Technician II
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, OI JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE	N-SITE REMEDIATION APPROVED IN ACCORDANCE TO THE
APPROVED: YES NO (REASON)	use as Rackfull
SIGNED: Let Mal	DATE: 9-23-78

Ticarilla Hpache Tribal 151-8E Dec. 3 T26N R5W Unit B Amoco

Land farm #2





CLIENT:

LAB: (505) 325-1556

On Site Technologies, LTD.

PNM - Public Service Company of NM

Project: Jicarilla Landfarms

Lab Order: 9808064

CASE NARRATIVE

Date: 10-Sep-98

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

Date: 10-Sep-98

ANALYTICAL REPORT

Client: PNM - Public Service Company of NM

Work Order: 9808064

Matrix: SOIL Lab ID: 9808064-07A

Project: Jicarilla Landfarms Client Sample Info: Jic. Apache Tribal 151-8E #2 LF

Client Sample ID: 9808310915; 6pt. Comp

Collection Date: 8/31/98 9:15:00 AM

COC Record: 7435

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	34	25	mg/Kg	1	9/3/98

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