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### **JICARILLA APACHE TRIBE**

SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL GAS ADMINISTRATION

FEB 0 8 1999

## **ENVIRONMENTAL PROTECTION OFFICE**

P.O. BOX 507 DULCE, NEW MEXICO 87528

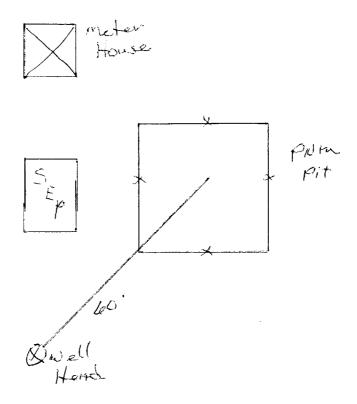
# PIT REMEDIATION AND CLOSURE REPORT

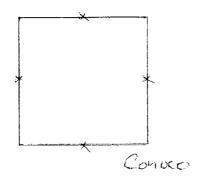
Operator: PNM Gas Se	rvices (Corjo	٠.٠ \ Tel	lephone: 324-376	4			
-		<del></del>					
Address: 603 W. Elm Street Farmington, NM 87401							
Facility or Well Name: 14x; Applica J-15							
Location: Unit:	Sec. <u>8</u>	T. 25 N R. 5	W County Rio Arr	iba			
Pit Type: Separator >	Dehydrator	Other					
Land Type: Jicarilla Apache		<del></del> -		_			
Pit Location: Pit dimer	sions: length	/ 8	/ ප ´ depth	2/			
(Attach diagram) Reference	e: wellhead	× other					
Footage	from reference:	; O'					
Direction	from reference: 75	Degrees <b>x</b> Ea	ast North	<u> </u>			
	<u>^-15</u>	<del></del>	of	<u>×</u> _			
		W	est South -				
Depth to Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)		Less than 50 fe 50 feet to 99 fe Greater than 100 fe	eet (10 poin	ts)			
Wellhead Protection Area:	EGENVE	Y	'es (20 poin	ts)			
(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)	188 - 1 Mg)	·	No ( 0 poin	ts)			
Distance to Surface Water:	IL GONL IDEAN	Less than 200 fe	( Fo	,			
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	PMI. 3	200 feet to 1,000 fo Greater than 1,000 fo	(				
Distance to Ephemeral Stream (Horizontal distance to all downgradient streams having a width of at least 10 feet)	(dry wash):	Less than or equal to 100 fe Greater than 100 fe	/ · - F - · · ·				
Distance to Nearest Lake, Play Pond: (Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds)	a, or Watering	Less than or equal to 100 fe Greater than 100 fe		ts)			
	1	RANKING SCORE (T	TOTAL POINTS):	9			

Date Remediation Started	1: <u>7/16/98</u>	Date Completed:	11/2/98
Remediation Method:	Excavation ×	Approx. Cubic Yards	284
(Check all appropriate	Landfarmed	Amount Landfarmed (cub	ic yds): <u> </u>
sections)	Other	· · · · · · · · · · · · · · · · · · ·	
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite	Offsite	
0.0 5	continuinated s		ur side wall
9:16000	- is rock	- hand space	rending.
EXCHUATION	5125: 29X8	+'X11'	
Ground Water Encounte	red: No 🔀 Yes	Depth	
Final Pit Closure Sampling:	Sample Location North	rand pit botto	, west side
(if multiple samples, attach sample result and diagram of	Sample depth //		
sample locations and depths.)	Sample date 7/16/98	Sample time	1357
S	sample Results		
Soil: E	Benzene (ppm) ND	Water: Benzene (	ppb)
Т	otal BTEX (ppm 59.800	Toluene (	ppb)
F	ield headspace (ppm) 6 7 a	A	
Т	PH <u>980 ppm</u> Method	8075 Total Xyler	nes (ppb)
Ground Water Sample	: Yes No	✓ (If yes, attach)	sample results)
I HEREBY CERTIFY THA KNOWLEDGE AND MY B	T THE INFORMATION ABOVE IS	TRUE AND COMPLETE TO	THE BEST OF MY
l .	20/00	NTED NAME Ronald A. D	edrick
SIGNATURE Par	Cd A Deduib AN	ND TITLE Environmental	Technician II
	E PIT CLOSURE INFORMATION, I TRIBE PIT CLOSURE ORDINANO		IN ACCORDANCE
APPROVED: YES	NO (REASC	DN): RA. Attac	Le O
SIGNED:	cmall DA	TE: 8-18-98	

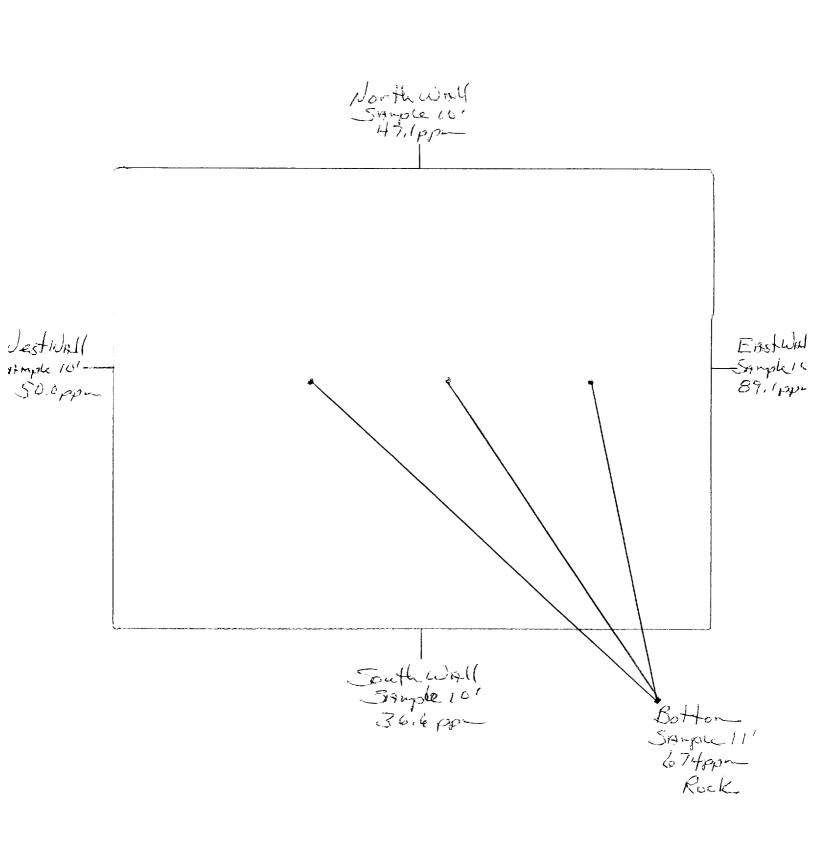
TXI HAPAChe J 7/3 See 8 TBSN RSW Unit C Jorocc

Site Drawing





Excavation Drawing



LAB: (505) 325-1556

## On Site Technologies, LTD.

CLIENT: PNM - Public Service Company of NM

Project:

PNM Pit Remediation

Lab Order:

9807045

**CASE NARRATIVE** 

Date: 28-Jul-98

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

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

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



LAB: (505) 325-1556

#### ANALYTICAL REPORT

Date: 28-Jul-98

Client:

PNM - Public Service Company of NM

Work Order:

9807045

**Lab ID:** 9807045-08A

Matrix: SOIL

Project:

PNM Pit Remediation

Client Sample Info: Axi Apache J-15

Client Sample ID: 9807161357; 3pt. Composite-bottom

**Collection Date:** 7/16/98 1:57:00 PM

COC Record: 7316

Parameter	Result	PQL	Qual Uni	its	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015			Analyst: <b>HR</b>		
T/R Hydrocarbons: C10-C28	980	25	mg	g/ <b>Kg</b>	1	7/27/98
ВТЕХ	SW8020A			Analyst: HR		
Benzene	ND	1000	μg	/Kg	1000	7/23/98
Toluene	3200	2000	μg	ı/Kg	1000	7/23/98
Ethylbenzene	7600	1000	μg	ı/Kg	1000	7/23/98
m,p-Xylene	40000	2000	μg	/Kg	1000	7/23/98
o-Xylene	9000	1000	μg	ı/Kg	1000	7/23/98
	59800 59.800	>				
	59.80	) 122 U	^			

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



LAB: (505) 325-1556

#### ANALYTICAL REPORT

Date: 28-Jul-98

Client:

PNM - Public Service Company of NM

Work Order:

9807045

9807045 9807045-07A

Matrix: SOIL

Lab ID: Project:

PNM Pit Remediation

Client Sample Info: Axi Apache J-15

Client Sample ID: 9807161356; 4pt. Composite - walls

Collection Date: 7/16/98 1:56:00 PM

COC Record: 7316

Result	PQL (	Qual Units	DF	Date Analyzed
SW8015			1	Analyst: <b>HR</b> 7/23/98
		SW8015	SW8015	SW8015

Qualifiers:

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DING INDUSTRY WITH THE



Well Name:

Well Legals:

Pit Type:

Horizontal Distance to Surface Water:

Groundwater Depth:

Axi Apache J #15 Unit C, Sec 8, T25N, R5W Separator Greater than 1,000 feet Greater than 100 feet

#### **RISK ANALYSIS**

PNM requests closure of their former pit on the Axi Apache J #15 well site using a limited risk analysis based on the following conditions:

- 1. Groundwater is estimated to be at a depth of 184 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash (Lapis Canyon). (Reference: Gonzales Mesa, NM series 7.5 minute topographic map.)
- 2. The site is located outside of the "vulnerable area" as defined under OCC Order No. R-7940-C.
- PNM excavated 284 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.
- 4. Bedrock was encountered at 11 feet below ground surface. Bedrock/sandstone provides a barrier between remaining contamination and groundwater. Vertical migration through bedrock or sandstone to groundwater is unlikely.
- 5. PNM excavated and performed remediation to the maximum depth and horizontal extent practicable.

PNM believes their former pit on the Axi Apache J #15 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

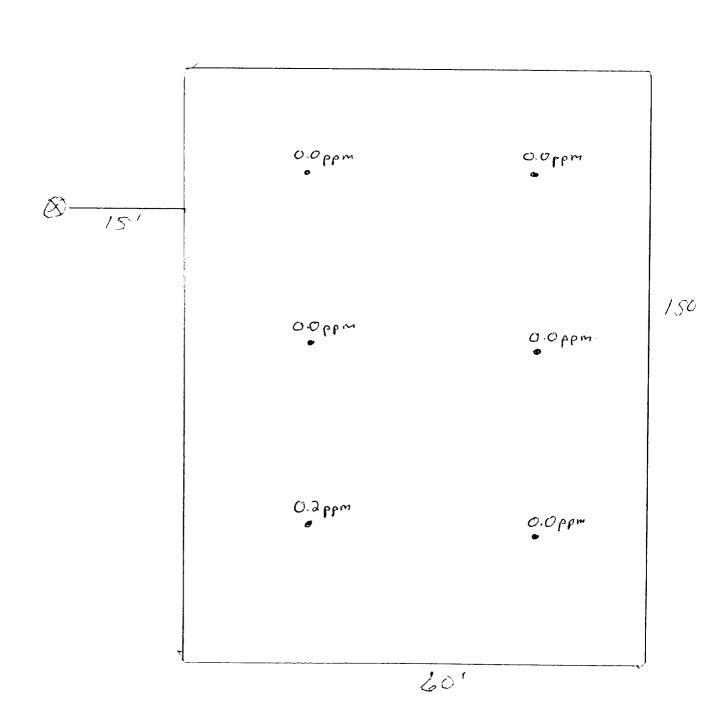
# JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P.O. BOX 507 DULCE, NEW MEXICO 87528

# **ON-SITE SOIL REMEDIATION REPORT**

Operator	PNM Gas Services	Conord 1	Telephone:	324-3764
Operator:	LIM 043 OCIVICES (	<u> </u>	i cispilolie.	
Address: 603	W. Eim Street Farmington.	NM 87401		
Facility or Well I	Name: PxiA	onche J-	15	
Location:	Unit: So	ж. <u>8      </u> т.	25 N R.	S W County Rio Arribs
Land Type: Ji	canila Apache			
Date Remediation	Started: 2//6/5	7 8	Date Comple	ted: 10/14/98
Remediation Metho	7 4		Approx. cubic y	284
Depth to Ground	Water:	(pts.)		Final Closure Sampling:
Distance to an E	phemeral Stream:	(pts.)	Sampling	Date: 10/12/98 Time 0711
Distance to Near or Watering Pon	rest Lake, Playa, d:	(pts.)	1	Results:
Wellhead Protect		(pts.)	Field H	eadspace (ppm) 0.2
Distance to Sur	face Water:	(pts.)	li e	(ppm) ND Method SOC
Ranking Sc	ore (Total Points):	<u>.C.</u>	Other	
I HEREBY CERT	IFY THAT THE INFORMATIO	ON ABOVE IS TRUE A	ND COMPLETE TO	THE BEST OF MY KNOWLEDGE AND BELIEF
DATE	10/25/98	PRINTED	NAME Ronald	A. Dedrick Roy Burnham
SIGNATURE	10/25/98 Ray Burnhan		AND TITLE Em	vironmental Technician II
AFTER REVIEW JICARILLA APA	OF THE SOIL REMEDIATION	ON INFORMATION, ON ORDINANCE	4-SITE REMEDIATIO	ON APPROVED IN ACCORDANCE TO THE
APPROVED:	YES X NO	(REASON)		
SIGNED:	Ka-CM.		DATE:	1-2-98

ix Aprila J-15 Jec. & Tash RSW Unit C Conocc

LAndfarm Drawing



LAB: (505) 325-1556

# On Site Technologies, LTD.

CLIENT: PNM - Public Service Company of NM

Project: Jicarilla Pit Remediation

Lab Order: 9810037

**CASE NARRATIVE** 

Date: 16-Oct-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: 16-Oct-98

#### ANALYTICAL REPORT

Client: Pi

PNM - Public Service Company of NM

Work Order:

9810037

9810037-01A

Matrix: SOIL

Lab ID: Project:

Jicarilla Pit Remediation

Client Sample Info: Axi Apache J-15 LF

Client Sample ID: 9810120711; 6pt. Comp.

Collection Date: 10/12/98 7:11:00 AM

COC Record: 7512

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015				Analyst: <b>HR</b>
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	10/14/98

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

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