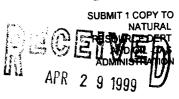
JICARILLA APACHE TRIBE

ENVIRONMENTAL PROTECTION OFFICE

P.O. BOX 507 DULCE, NEW MEXICO 87528



011 GOM. DIV. DIST. 3

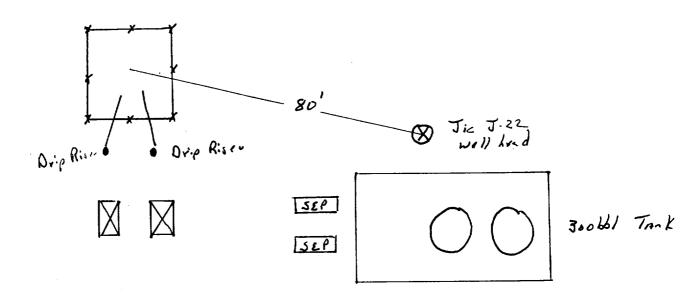
PIT REMEDIATION AND CLOSURE REPORT

			Secure of the contract of the	
Gas Services (B.	1:210m) 1	Telephone:	324-3764	
n Street Farmington, NM	87401			
Jicaville	7-22	·		
•	~	رم بدر سے	unhr Dio Acriba	
<u>m</u> Sec. 25	1. <u>26 N</u> R	7 M CO	Rio Arriba	
or Dehydrato	r Other	Duel	Dr:ps	
*				i
Apacne				
it dimensions: length	ຊ _ບ width	20	depth 3	
teference: wellh	ead y oth	ner		
				
ootage from reference:	80'			
Direction from reference:	8√° Degrees	East	North X	
•		of		
	<u>*</u>	West	South	4
	Loce than	50 feet	(20 points)	
•			(10 points)	•
	Greater than 1	00 feet	(0 points)	
10.2 ·		Yes	(20 points)	•
		No	(0 points)	
m all				
nter:	Less than 2	200 feet	(20 points)	
			(10 points)	45
	Greater than 1,0	JUU TEEL	(U points)	
Stream (dry wash):	Less than or equal to 1	00 feet	(10 points)	
	Greater than 1	00 feet	(0 points)	
ke, Playa, or Watering			(10 points) (0 points)	0
			(a polita)	
	RANKING SCORE	(TOTAL P	OINTS):	Ø
	Street Farmington, NM Sec. 25 Dehydrato Apache It dimensions: length eference: wellh ootage from reference: irection from reference: items ite	Street Farmington, NM 87401 Jicavi//2 J-22 M Sec. 25 T. 2/L N R. Or Dehydrator Other Apache It dimensions: length 20 width eference: wellhead X other ootage from reference: 80 irection from reference: 85 Degrees item	Apache Sec. 25 T. 2/N R. 5 W Corpor Dehydrator Other Dehydrator Apache It dimensions: length 20 width 20 other other or deference: wellhead X other or deference: 80' It case than 50 feet 50 feet to 99 feet Greater than 100 feet Greater than 1,000 feet Greater than 1,000 feet Greater than 1,000 feet Greater than 100 feet Grea	Telephone: 324-3764 Astreet Farmington, NM 87401 Jicavi// J-22

Date Remediation Started	1: 10/20/98	Date Completed:	10/21/95
Remediation Method:	Excavation	Approx. Cubic Yards	796 697
(Check all appropriate	Landfarmed	Amount Landfarmed (cul	bic yds): <u>6466</u> 97
sections)	Other	-	
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite	Offsite	
Removed conta	minuted soil from a	11 4 side ce reading: z:32 x 28 x 6	
Ground Water Encounte	ered: No X Yes	Depth	
Final Pit Closure Sampling:	Sample Location North Use !!	South wall East	wall & West wall
(if multiple samples, attach sample result and diagram of sample locations and	Sample depth $\frac{31'}{21/9c}$	Sample time	<u>49/0</u>
depths.)	Sample Results		
Soil: E	Benzene (ppm)	Water: Benzene	(ppb)
ј	Total BTEX (ppm	Toluene	(ppb)
F	Field headspace (ppm) /240-	•	zene (ppb)
ļ	TPH 800 ppm Method 7/	Total Xyl	enes (ppb)
Ground Water Sample	e: Yes No _	γ (If yes, attac	h sample results)
I HEREBY CERTIFY THA KNOWLEDGE AND MY E	T THE INFORMATION ABOVE IS TR BELIEF	RUE AND COMPLETE TO	THE BEST OF MY
DATE 10/	21/98 PRINT	ED NAME GAY	Cook
SIGNATURE	any Cook AND	/	al Technician
	E PIT CLOSURE INFORMATION, PIT TRIBE PIT CLOSURE ORDINANCE		ED IN ACCORDANCE
APPROVED: YES	NO (REASON): R.A. Atlac	hed
SIGNED:	C Mando DATE	: 11-30-9	8

Jicarilla J-22 Burlington Resources Sec. 25, 26N, 5W, m

Site Oxawing:



TECHNOLOGIES, LTD

OFF: (505) 325-5667

LAB: (505) 325-1556

Date: 04-Nov-98

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

Jicarilla J-22

Lab Order:

9810069

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: 04-Nov-98

Client:

PNM - Public Service Company of NM

Work Order:

9810069

Lab ID:

9810069-01A

Matrix: SOIL

Project:

Jicarilla J-22

Client Sample Info: Jicarilla J-22

Client Sample ID: 9810210910; Bottom @ 21ft.

Collection Date: 10/21/98 9:10:00 AM

COC Record: 7409

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015			Analyst: HR	
T/R Hydrocarbons: C10-C28	800	25	mg/Kg	1	10/30/98
втех	SW8020A				Analyst: DC
Benzene	2600	500	μg/Kg	500	10/28/98
Toluene	52000	1000	μg/Kg	500	10/28/98
Ethylbenzene	12000	500	μg/Kg	500	10/28/98
m,p-Xylene	120000	1000	μ g /Kg	500	10/28/98
o-Xylene	24000	500	μg/Kg	500	10/28/98
	210600				
	210.bi	XX CX	m		

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: 04-Nov-98

Client:

PNM - Public Service Company of NM

Work Order:

9810069

Lab ID:

9810069-02A

Matrix: SOIL

Project: Jicarilla J-22

Client Sample Info: Jicarilla J-22

Client Sample ID: 9810210915; Walls @ 15ft.

Collection Date: 10/21/98 9:15:00 AM

COC Record: 7409

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	· s	SW8015			Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	10/30/98

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

I of I



Well Name:

Well Legals:

Pit Type:

Horizontal Distance to Surface Water:

Groundwater Depth:

Jicarilla J #22 Unit M, Sec 25, T26N, R5W Dual Drips Greater than 1,000 feet Greater than 100 feet

RISK ANALYSIS

PNM requests closure of their former pit on the Jicarilla J #22 well site using a limited risk analysis based on the following conditions:

- 1. Groundwater is estimated to be at a depth of 160 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Lapis Point, 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.
- 3. PNM excavated 696 cubic yards of soil from the former pit. Subsurface lateral contamination has been remediated (see attached analytical results). Source removal minimizes the possibility of surface water contamination.
- 4. Rock was encountered at 21 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 Jicarilla J #22 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 (Bn-/in) Telephone: 324-3764					
Address: 603 W. Elm Street Farmington, NM 87401					
Facility or Well Name: Jicavilla J-22					
Location: Unit: M Sec. 25 T. 26 N R. 5 W County Rio Arriba					
Land Type: Jicarilla Apache					
Date Remediation Started: 10/20/98 Date Completed: 10/21/98 Remediation Method: Landfarmed X Approx. cubic yards 69L Composted Other					
Depth to Ground Water: (pts.) 6 Final Closure Sampling:					
Distance to an Ephemeral Stream: (pts.) 6 Sampling Date: ///L/18 Time //25					
Distance to Nearest Lake, Playa, (pts.) 6 Sampling Results:					
Wellhead Protection Area: (pts.) Field Headspace (ppm) 32.9					
Distance to Surface Water: (pts.) D TPH (ppm) 97 Method TPH-86/3					
Ranking Score (Total Points):					
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF					
DATE 12/2/98 PRINTED NAME Rey Burnham GAVY GOK					
SIGNATURE Cook 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) LAR COM BOXELLE					
SIGNED:					

J:car: 1/2 J-22

BR Sec 25, 24 N, 5W, m

LAndfarm: On location (696 yards)

0 Jic. J-22 will head

2"- 12" depth Soil upon head space = 32.9 ppn

Not to scale



LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

Jicarilla Pit Remediation

Lab Order:

9811056

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: 24-Nov-98

Client:

PNM - Public Service Company of NM

Work Order:

9811056

9811056-04A

Matrix: SOIL

Lab ID: Project:

Jicarilla Pit Remediation

Client Sample Info: Jicarilla J-22 LF

Client Sample ID: 9811161125 6pt Composite

Collection Date: 11/16/98 11:25:00 AM

COC Record: 7402

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	97	25	mg/Kg	1	11/23/98

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