Kinny S. Fort DEPUTY OF A GAS INSPECTOR

JICARILLA APACHE TRIBE

ENVIRONMENTAL PROTECTION OFFICE

DULCE, NEW MEXICO 87528

FEB 0 8 1999

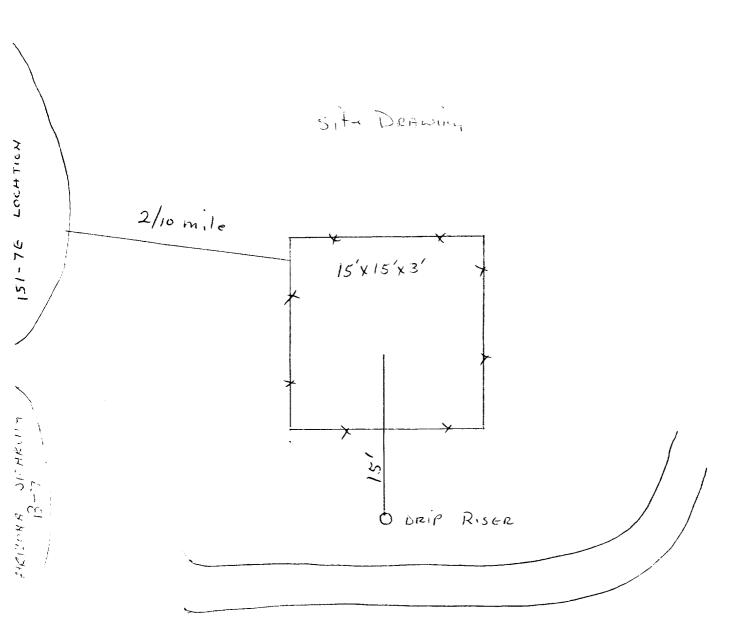
P.O. BOX 507

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

14/1/16 PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (WFS), Telephone: 324-3764 Address: 603 W. Elm Street Farmington, NM 87401 Facility or Well Name: JCARING Aprile Tribal 151-76 DRIA	
Facility or Well Name: JCARING Apriche TRIBAL 151-76 DRIP Location: Unit: D sec. 4 T. 26 N R. 5 W County Rio Arriba Pit Type: Separator Dehydrator Other Line Drip Land Type: Jicarilla Apache Pit Location: Pit dimensions: length 5' width 15' depth 3' (Attach diagram) Reference: wellhead other Drip Riser Footage from reference: 15' Direction from reference: Due Degrees East North X	
Facility or Well Name: JICARING Apache TRIBAL 151-76 DRIA Location: Unit: D Sec. 4 T. 26 N R. 5 W County Rio Arriba Pit Type: Separator Dehydrator Other Line Drip Land Type: Jicarilla Apache Pit Location: Pit dimensions: length 5' width 15' depth 3' (Attach diagram) Reference: wellhead other Drip Riser Footage from reference: 15' Direction from reference: Due Degrees East North X	
Pit Type: Separator Dehydrator Other Line Drip Land Type: Jicarilla Apache Pit Location: Pit dimensions: length [5] width 15 depth 3' (Attach diagram) Reference: wellhead other Daip RiseR Footage from reference: 15' Direction from reference: Due Degrees East North X	
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Footage from reference: 15 Direction from reference: Due Degrees East North	
Direction from reference: Due Degrees East North	
Briedlich Herriteren Ereiter	
	
of West South	
Depth to Ground Water: Less than 50 feet (20 points) 50 feet to 99 feet (10 points)	Ø
(Vertical distance from contaminants to seasonal high water elevation of ground water) Greater than 100 feet (0 points)	
Wellhead Protection Area: Yes No (20 points) (0 points)	Ø
(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: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, rrigation canals and ditches) Less than 200 feet (20 points) 200 feet to 1,000 feet (10 points) Greater than 1,000 feet (0 points)	Ø
Distance to Ephemeral Stream (dry wash): Less than or equal to 100 feet (10 points) Greater than 100 feet (0 points)	Ø
(Horizontal distance to all downgradient streams having a width of at least 10	
Distance to Nearest Lake, Playa, or Watering Pond: (Horizontal distance to all downgradient lakes, playas, and liveslock or wildlife water ponds) Less than or equal to 100 feet (10 points) Greater than 100 feet (0 points)	<u>Ø</u>
RANKING SCORE (TOTAL POINTS):	<u>Ø</u>

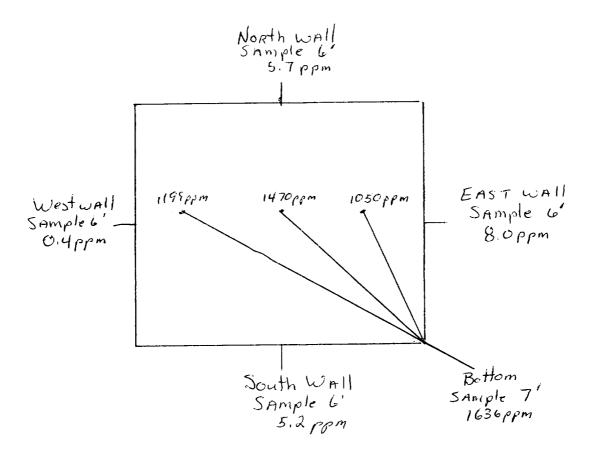
Date Remediation Started	1: <u>6/9/98</u>	Date Completed:	7/28/98
Remediation Method:	Excavation X	_ Approx. Cubic Yards	120
(Check all appropriate	Landfarmed X	Amount Landfarmed (cubic	yds): <u>/20</u>
sections)	Other		
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite	Offsite <u>ARIZONA</u>	JICHRILL B-7
to get a b	taminated Soil from elow 100 ppm had elow tock. 3 point con	·	walls AS Bothon was of P.T
Ground Water Encounte	ered: No <u>X</u> Yes	Depth	
Final Pit Closure	Sample Location North	EAST, South, west	side wills
Sampling: (if multiple samples, attach sample result and diagram of sample locations and depths.)	Sample depth Sample date Sample Results	Sample time	1029
	Benzene (ppm) まし.のの	Water: Benzene (p	pb)
	Fotal BTEX (ppm 333, 100	Toluene (p	ppb)
	Field headspace (ppm) 1636	Ethylbenzer 8015 Total Xylene	
Ground Water Sample	e: Yes No	(If yes, attach s	sample results)
I HEREBY CERTIFY THA KNOWLEDGE AND MY E	T THE INFORMATION ABOVE IS T	RUE AND COMPLETE TO T	HE BEST OF MY
DATE		TED NAME Roy Burnhan	n
SIGNATURE RATE	erential AND	TITLE Environmental	Technician II
	E PIT CLOSURE INFORMATION, PI TRIBE PIT CLOSURE ORDINANCE		IN ACCORDANCE
APPROVED: YES	NO (REASON	1): R.A. Attac	check
SIGNED: LEW	CMall DATI	E: 7-28-98	



JICARILLA Apache Tribal 151-7E DRIP#1 Sec-4 T264 RSW UNITD WFS

22'x21'x7'

EXCAUATION DRAWING



5 Sample 1236 ppm Bothen 7 Siample 1199/1470/1050 ppm



LAB: (505) 325-1556

TECHNOLOGIES, LTD.

On Site Technologies, LTD.

Date: 17-Jun-98

CLIENT:

PNM - Public Service Company of NM

Project:

Jicarilla Pit Remediation

Lab Order:

9806037

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: 17-Jun-98

Client:

PNM - Public Service Company of NM

Work Order:

9806037

Lab ID:

9806037-06A

Matrix: SOIL

Project:

Jicarilla Pit Remediation

Client Sample Info: Jic. Apache Tribal 151-7E Drip #1

Client Sample ID: 9806091029; 3pt. Comp. Bottom

Collection Date: 6/9/98 10:29:00 AM

COC Record: 7161

Parameter	Result	PQL Q	ıal Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015 -				Analyst: HR
T/R Hydrocarbons: C10-C28	48	25	mg/Kg	1	6/16/98
втех	SW8020A				Anaiyst: DC
Benzene	26000	1000	μg/Kg	1000	6/13/98
Toluene	180000	2000	μg/Kg	1000	6/13/98
Ethylbenzene	9100	1000	μg/Kg	1000	6/13/98
m,p-Xylene	100000	2000	μg/Kg	1000	6/13/98
o-Xylene	18000	1000	μg/Kg	1000	6/13/98

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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

Date: 17-Jun-98

ANALYTICAL REPORT

Client:

PNM - Public Service Company of NM

Work Order:

9806037

Lab ID:

9806037-05A

Matrix: SOIL

Project:

Jicarilla Pit Remediation

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Client Sample Info: Jic. Apache Tribal 151-7E Drip #1 Client Sample ID: 9806091028; 4pt. Comp. Walls

Collection Date: 6/9/98 10:28:00 AM

COC Record: 7161

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	6/11/98

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

Sum: - Sumogate

1 of 1



Well Name: Well Legals: Pit Type:

Horizontal Distance to Surface Water:

Groundwater Depth:

Jicarilla Apache Tribal 151-7E Drip #1
Unit D, Sec 4, T26N, R5W
Drip
Greater than 1,000 ft
Greater than 100 ft

RISK ANALYSIS

PNM requests closure of their former pit on the Jicarilla Apache Tribal 151-7E drip site using a limited risk analysis based on the following conditions:

1. Groundwater is estimated to be at a depth of 114 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.)

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- 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 120 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 7 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 151-7E drip site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 800 pits.

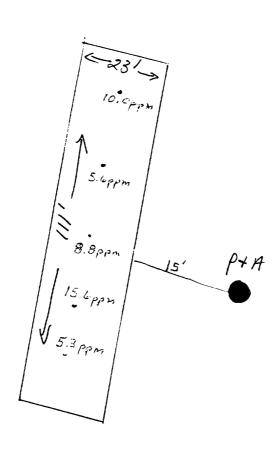
SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL -GAS ADMINISTRATION

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

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services	(WFS)	Telephone: 3	24-3764
Address: 603 W. Elm Street Farmin	gton, NM 87401		
Facility or Well Name:	ella Apache TR	. bal 151-	B DRIM#1
Location: Unit or Qtr/Qtr Sec:	<u> </u>	<u> 26 N</u> R	5 W County
Land Type:			
Date Remediation Started:	7/98	Date Completed:	7/14/98
Remediation Method: Landfarmed Composted Other	<u>X</u>	Approx. cubic yards	130
Depth to Ground Water:	(pts.)		Final Closure Sampling:
Distance to an Ephemeral Stream:	(pts.)	Sampling Date:	: 7/7/98 Time 1005
Distance to Nearest Lake, Playa, or Watering Pond:	(pts.) 🧳	Sampling Resu	15-5
Wellhead Protection Area:	(pts.)	Field Headsp	ace (ppm) 15.6
Distance to Surface Water:	(pts.)	TPH	(ppm) No Method Sol5
Ranking Score (Total Points):	Other	
I HEREBY CERTIFY THAT THE INFORMA	TION ABOVE IS TRUE AND C	OMPLETE TO THE B	EST OF MY KNOWLEDGE AND BELIEF
DATE 7/14/98	PRINTED NAM	E Roy Burnh	am
SIGNATURE Ray BUCK ha	AND -	TITLE Environi	mental Technician II
AFTER REVIEW OF THE SOIL REMEDIAT JICARILLA APACHE TRIBE PIT CLOSURE	•	REMEDIATION APP	ROVED IN ACCORDANCE TO THE
APPROVED: YES X NO	(REASON) U	use as E	Backfill
SIGNED: Len CM	DATE:	1-28	- 98

JICARILLA APACHE TRIBAL 151-7E DRIPHI WILLIAMS FIELD SERVICES UNIT D SEC 4 T26N RSW LAND FARM DRAWING



LAB: (505) 325-1556

TTD

On Site Technologies, LTD.

CLIENT: PNM - Public Service Company of NM

Project: Landfarms Lab Order: 9807019

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.

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TECHNOLOGIES, LTD.

OFF: (505) 325-5667

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 14-Jul-98

Client:

PNM - Public Service Company of NM

Matrix: SOIL

Work Order:

9807019

Lab ID:

Project:

9807019-02A Landfarms

Client Sample Info: Jic. Apache Tribal 151-7E Drip #1

Client Sample ID: 9807071005; 5pt. Comp

Collection Date: 7/7/98 10:05:00 AM

COC Record: 7262

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SV	V8015		Analyst: DC	
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	7/14/98

Qualifiers:

PQL - Practical Quantitation Limit

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