Dennige 3. Toust DEPUTY OIL & GAS INSPECTOR

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JICARILLA APACHE TRIBE

SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL GAS ADMINISTRATION

FEB 0 8 1999

P.O. BOX 507 **DULCE, NEW MEXICO 87528**

ENVIRONMENTAL PROTECTION OFFICE

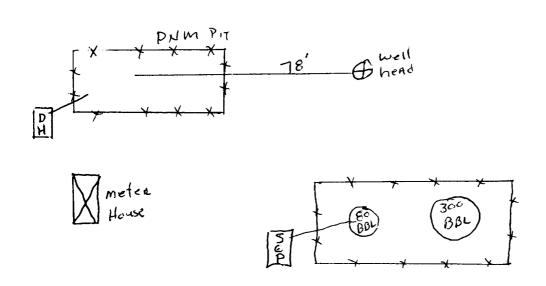
Anniques!	PIT REMEDIATION AND CLOSURE REPORT
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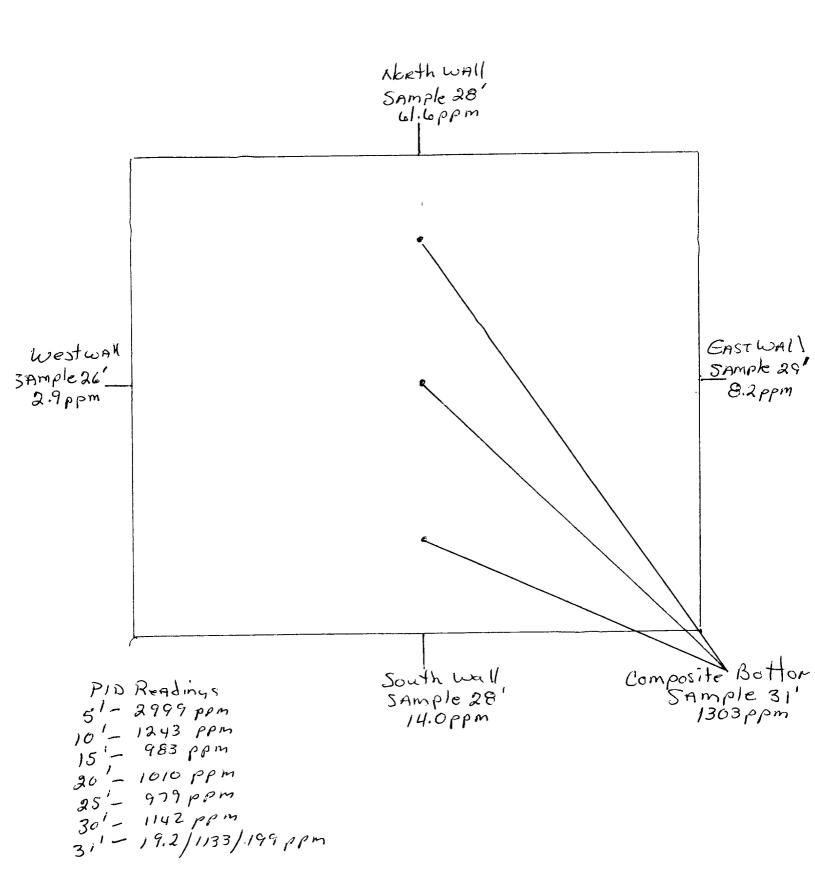
Operator: PNM Gas Services (BRO)	Telephone: 324-3764				
Address: 603 W. Elm Street Farmington, NM 87401					
Facility or Well Name: JICARILLA G-	8				
Location: Unit: G Sec. 2	T. 26 N R. 5 W County Rio Arriba				
Pit Type: Separator Dehydrator	<u>X</u> Other				
Land Type: Jicarilla Apache					
Pit Location: Pit dimensions: length	<u> 42'</u> width <u> 20'</u> depth <u> 4'</u>				
(Attach diagram) Reference: wellhead	d X other				
Footage from reference:	78'				
Direction from reference: Du					
	of West South				
Depth to Ground Water: Less than 50 feet (20 points)					
(Vertical distance from contaminants to seasonal high water elevation of ground water)	50 feet to 99 feet (10 points) Greater than 100 feet (0 points)				
Wellhead Protection Area:	Yes (20 points) No (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) 200 feet to 1,000 feet (10 points)				
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, trigation canals and ditches)	Greater than 1,000 feet (10 points)				
Distance to Ephemeral Stream (dry wash):	Less than or equal to 100 feet (10 points) Greater than 100 feet (0 points)				
(Horizontal distance to all downgradient streams having a width of at least 10 feet)	(o points)				
Distance to Nearest Lake, Playa, or Watering Pond:	Less than or equal to 100 feet (10 points) Greater than 100 feet (0 points)				
(Horizontal distance to all downgradient lakes, playas, and livestock or wildlife water ponds)					
	RANKING SCORE (TOTAL POINTS):				

Date Remediation Started: 5/14/98	Date Completed:				
Remediation Method: Excavation	Approx. Cubic Yards 5, 323				
(Check all appropriate Landfarmed X	Amount Landfarmed (cubic yds): 5,323				
Other					
Remediation Location: Onsite (i.e., landfarmed onsite, name and location of offsite facility)	Offsite				
General Description of Remedial Action:					
	from all four Side walls				
As to get H below 100ppm her					
Pit bottom Excountrion Size	76'y 61'x 31'				
Ground Water Encountered: No X Yes	Depth				
•	East, South, west an				
(if multiple samples, attach sample result and diagram of					
sample locations and depths.) Sample date $\frac{5/21/98}{}$	Sample time /336				
Sample Results					
Soil: Benzene (ppm)	Water: Benzene (ppb)				
Total BTEX (ppm 15.060	Toluene (ppb)				
Field headspace (ppm) 1303	Ethylbenzene (ppb)				
TPH 250 ppm Method _	Total Xylenes (ppb)				
Ground Water Sample: Yes No	(If yes, attach sample results)				
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TE KNOWLEDGE AND MY BELIEF	RUE AND COMPLETE TO THE BEST OF MY				
	TED NAME Roy Burnham				
SIGNATURE Ray Burnham AND	TITLE Environmental Technician II				
AFTER REVIEW OF THE PIT CLOSURE INFORMATION, PIT CLOSURE IS APPROVED IN ACCORDANCE TO JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE.					
APPROVED: YESNO(REASON	l):				
SIGNED: Leve Manuel DATE	<u>5-26-97</u>				

JICARINA G-8 Sec-2 Tabn RSW Unit G BROG

SITE DRAWing





LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT: PNM - Public Service Company of NM

Project: Jicarilla G-8

Lab Order: 9805072

CASE NARRATIVE

Date: 27-May-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.

The control of the control of

Client:



LAB: (505) 325-1556

Date: 27-May-98

ANALYTICAL REPORT

PNM - Public Service Company of NM

Matrix: SOIL

Work Order: 9805072

Lab ID: 9805072-02A

Project: Jicarilla G-8

Client Sample Info: Jicarilla G-8

Client Sample ID: 9805211336; 3pt. Comp. Bottom

Collection Date: 5/21/98 1:36:00 PM

COC Record: 7154

Parameter	Result	PQL Q	ual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SV	V8015			Analyst: HR
T/R Hydrocarbons: C10-C28	250	25	mg/Kg	1	5/26/98
ВТЕХ	SV	V8020A			Analyst: DC
Benzene	ND	50	μg/Kg	50	5/24/98
Toluene	660	100	μg/Kg	50	5/24/98
Ethylbenzene	1100	50	μg/Kg	50	5/24/98
m,p-Xylene	11000	100	μg/Kg	50	5/24/98
o-Xylene	2300	50	μg/Kg	50	5/24/98

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: 27-May-98

ANALYTICAL REPORT

Client:

PNM - Public Service Company of NM

Work Order:

Lab ID:

Project:

9805072

9805072-01A

Matrix: SOIL

Jicarilla G-8

Client Sample Info: Jicarilla G-8

Client Sample ID: 9805211335; 4pt. Comp. Walls

Collection Date: 5/21/98 1:35:00 PM

COC Record: 7154

Parameter	Result	PQL_	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	sv	V8015			Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	5/26/98

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 # /

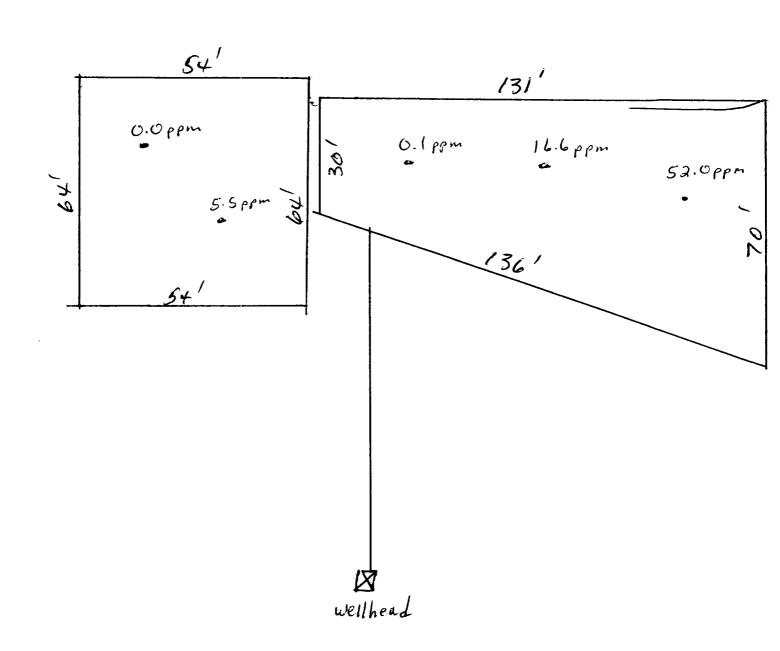
Operator:	PNM Gas Services	(BROG	Telephone:	324-3764	
Address:	603 W. Elm Street Farming	ton. NM 87401			
Facility or W	Vell Name: JICF	ARILLA G-	8		
Location:	Unit:G	Sec. 2	т. <u>26 n</u> r.	5 W County Rio Arriba	
Land Type:	Jicarilla Apache				
Date Remediat		1/98 X_ 	Date Comple Approx. cubic y		
Distance to N or Watering F Wellhead Pro Distance to S	n Ephemeral Stream: learest Lake, Playa,	(pts.) Ø (pts.) Ø (pts.) Ø (pts.) Ø (pts.) Ø	Sampling Sampling Field He		
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF DATE PRINTED NAME Roy Burnham					
SIGNATURE	Roy Burnha	<u> </u>		ronmental Technician II	
AFTER REVIE JICARILLA AF APPROVED: SIGNED:	PACHE TRIBE PIT CLOSURE	ION INFORMATION, O ORDINANCE (REASON)	use as	BOCKJULL 8-98	

JILARIIIA G-8

BURLINGTON

UNIT G SEC 2 TZEN RSW

LANDFARM #1





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.

Client:



LAB: (505) 325-1556

Date: 23-Jul-98

ANALYTICAL REPORT

PNM - Public Service Company of NM

Matrix: SOIL

Work Order: 9807043

Lab ID: 9807043-04A

DATE A DIVIDE AND A DIVIDE

Project: PNM Pit Remediation

Client Sample Info: Jicarilla G-8 #1 LF

Client Sample ID: 9807151525; 5pt. Composite

Collection Date: 7/15/98 3:25:00 PM

COC Record: 7266

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SI	N8015			Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	7/22/98

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

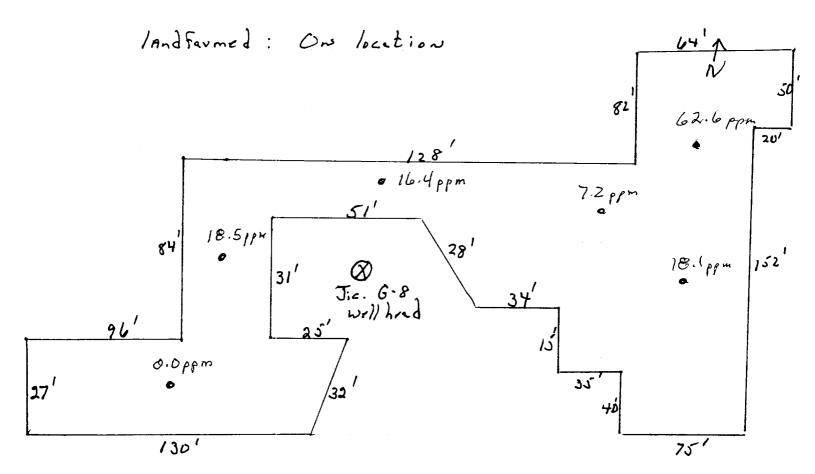
JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P.O. BOX 507 DULCE, NEW MEXICO 87528

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (BROG)	Telephone: 324-3764
Address: 603 W. Elm Street Farmington, NM 87401	
Facility or Well Name: $I(CAR) G - 8$	
Location: Unit: Sec. 2 T.	26 N R. 5 W County Rio Arriba
Land Type: Jicarilla Apache	
Date Remediation Started: 5514/98 Remediation Method: Landfarmed X Composted Other	Approx. cubic yards 2000
Depth to Ground Water: (pts.)	Final Closure Sampling:
Distance to an Ephemeral Stream: (pts.)	Sampling Date: 8/31/98 Time 0730
Distance to Nearest Lake, Playa, (pts.)	Sampling Results:
Wellhead Protection Area: (pts.)	Field Headspace (ppm) 62.6
Distance to Surface Water: (pts.)	TPH (ppm) 87 Method 805
Ranking Score (Total Points):	
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND	COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF
DATE 9/14/98 PRINTED NA	ME Roy Burnham
ρ	O TITLE Environmental Technician II
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SIT JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE	E REMEDIATION APPROVED IN ACCORDANCE TO THE
APPROVED: YES NO (REASON)	use as Backfull
SIGNED: LOW DAT	E: <u>9-23-98</u>

Jica:1/2 G-8 # 2 BROG Sec. 2, 26N, 5N, G

8/18/98



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ON SITI

OFF: (505) 325-5667

LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

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

ANALYTICAL REPORT

Date: 10-Sep-98

Client:

PNM - Public Service Company of NM

Work Order:

9808064

9808064-01A

Matrix: SOIL

Lab ID: Project:

Jicarilla Landfarms

Client Sample Info: Jicarilla G-8 #2 LF

Client Sample ID: 9808310730; 6pt. Comp

Collection Date: 8/31/98 7:30:00 AM

COC Record: 7435

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SI	V8015			Analyst: HR
T/R Hydrocarbons: C10-C28	87	25	mg/Kg	1	9/3/98

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

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

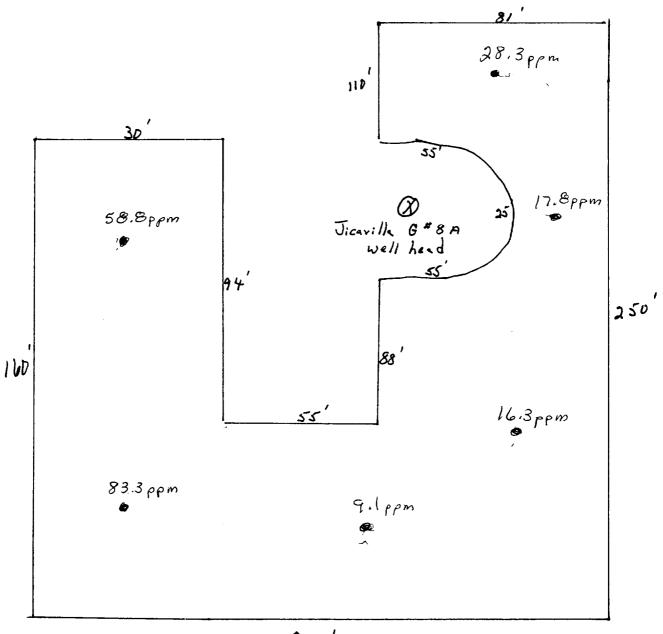
ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (BROG) Telephone: 324-3764
Address: 603 W. Eim Street Farmington. NM 87401	
Facility or Well Name: TICARILLA G-8	
Location: Unit: G Sec. 2 T.	26 N R. 5 W County Rio Arriba
Land Type: Jicarilla Apache	
Date Remediation Started: S/14/98	Date Completed: $9/3/98$
Remediation Method: Landfarmed	Approx. cubic yards $2,000$
Composted	
Depth to Ground Water: (pts.)	Final Closure Sampling: Sampling Date: $8/31/98$ Time 9745
Distance to Nearest Lake, Playa, (pts.)	Sampling Results:
Wellhead Protection Area: (pts.)	Field Headspace (ppm) 83,3
Distance to Surface Water: (pts.)	TPH (ppm) 74 Method 8015
Ranking Score (Total Points):	Curer
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE ANI	D COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF
DATE 9/14/98 PRINTED N	NAME Roy Burnham
DATE 9/14/98 PRINTED A	ND TITLE Environmental Technician II
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-S JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE	SITE REMEDIATION APPROVED IN ACCORDANCE TO THE
APPROVED: YES NO (REASON)	use as Backfull
SIGNED: Ker Mall	ATE: 9-23-98

Jicarilla G#8 #3 BR Sec. 2, 26N, 5W, G

8/17/98

Landfarm: J:cav:11a G#8A BR Sec. 2, 2LN, 5W, P





LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT: 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

ANALYTICAL REPORT

Date: 10-Sep-98

Client:

PNM - Public Service Company of NM

Work Order:

9808064

Lab ID: 9808064-02A

Matrix: SOIL

Project:

Jicarilla Landfarms

Client Sample Info: Jicarilla G-8 #3 LF

Client Sample ID: 9808310745; 6pt. Comp

Collection Date: 8/31/98 7:45:00 AM

COC Record: 7435

Parameter	Result	PQL	Qual Units	DF	Date Analyzed	
DIESEL RANGE ORGANICS	SV	V8015			Analyst: HR	
T/R Hydrocarbons: C10-C28	74	25	mg/Kg	1	9/3/98	

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

S - Spike Recovery 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

SUBMIT 1 COPY TO NATURAL RESOURCE DEPT AND OIL GAS ADMINISTRATION

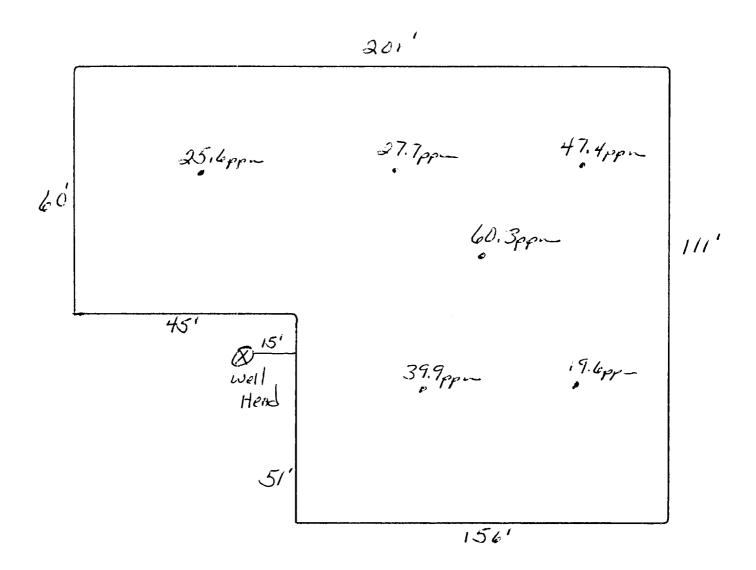
JICARILLA APACHE TRIBE ENVIRONMENTAL PROTECTION OFFICE P.O. BOX 507 DULCE, NEW MEXICO 87528

ON-SITE SOIL REMEDIATION REPORT

Operator: PNM Gas Services (BROG)	Telephone: 324-3764			
Address: 603 W. Elm Street Farmington, NM 87401				
Facility or Well Name: Jicarilla 6-8				
Location: Unit: G Sec. 2 T.	26N R. 5 W County Rio Arriba			
Land Type: Jicarilla Apache				
Date Remediation Started: 5/14/98	Date Completed: 10/6/98			
Remediation Method: Landfarmed X. Composted Other	Approx. cubic yards 823			
Depth to Ground Water: (pts.)	Final Closure Sampling:			
Distance to an Ephemeral Stream: (pts.)	Sampling Date: 10/5/98 Time /6/5			
Distance to Nearest Lake, Playa, (pts.) <u>Ø</u> or Watering Pond:	Sampling Results:			
Wellhead Protection Area: (pts.)	Field Headspace (ppm) 60.3			
Distance to Surface Water: (pts.)	TPH (ppm) <u>ND</u> Method <u>8015</u>			
Ranking Score (Total Points):				
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF				
DATE /0/25/96 PRINTED N	IAME Roy Burnham			
DATE 10/25/96 PRINTED N SIGNATURE Ry Burnhan AN	ID TITLE Environmental Technician II			
AFTER REVIEW OF THE SOIL REMEDIATION INFORMATION, ON-SI JICARILLA APACHE TRIBE PIT CLOSURE ORDINANCE	ITE REMEDIATION APPROVED IN ACCORDANCE TO THE			
APPROVED: YES NO (REASON)	use as Brekfill			
SIGNED: Len C Man DA	TE: 11-2-98			

SICATILIA G-8"4 L.T SEC 2 TAGN REW UNITG BROG

LAndfarm # 4 Drawing



LAB: (505) 325-1556 OFF: (505) 325-5667

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

Jicarilla G-8 #4 LF

Lab Order:

9810012

CASE NARRATIVE

Date: 08-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

ANALYTICAL REPORT

Date: 08-Oct-98

Client:

PNM - Public Service Company of NM

Work Order:

9810012

Lab ID:

9810012-01A

Matrix: SOIL

Project:

Jicarilla G-8 #4 LF

Client Sample Info: Jicarilla G-8#4 LF

Client Sample ID: 9810051615; 6pt. Composite

Collection Date: 10/5/98 4:15:00 PM

COC Record: 7511

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015				Analyst: HR
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	10/6/98

Qualifiers:

PQL - Practical Quantitation Limit

R - RPD outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

E - Value above quantitation range

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit
B - Analyte detected in the associated Method Blank

Surr: - Surrogate