Jistrict I P.O. Box 1980, Hobbs, NM

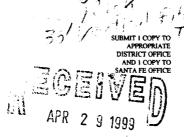
State of New Mexico
Energy, Minerals and Natural Resources Department

District II P.O. Drawer DD, Artesia, NM 88221

District III 1000 Rio Brazos Rd, Aztec, NM 87410

OIL CONSERVATION DIVISION

2040 South Pacheco Street Santa Fe, New Mexico 87505



PIT REMEDIATION AND CLOSURE REPORT

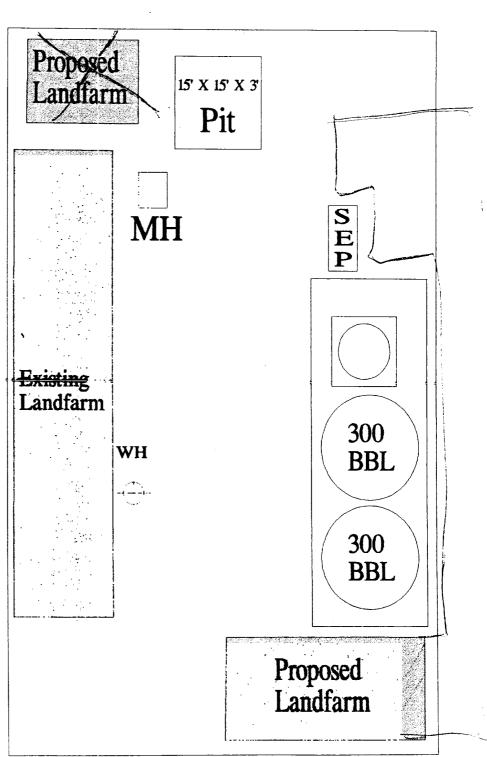
OIL CON. DIV. DIST. 3

Operator:	PNM Gas Services (Burlington) Telephone:	324-3764	*
Address:	603 W. Elm Street Farmington, NM 87	401		
Facility or W	ell Name: Navajo Indian B #6M		-	
Location:	Unit D Sec	19 T 27N	R 8W County	San Juan
Pit Type:	Separator Dehydra	tor Othe	er Manual drip t	blowdown
Land Type:	BLM State	Fee Othe	Navajo Reser	vation
Pit Location:	Pit dimensions: length	1:5 ' width	15 depth	3 '
(Attach diagrar	n) Reference: wellhead <u>a</u>	other _		
	Footage from reference:	135'		
	Direction from reference: 90	Degrees 💆	East North	<u> </u>
	· · · · · · · · · · · · · · · · · · ·		of West South	
Depth to Grou (Vertical distance from co seasonal high water eleva water	ontaminants to	Less than 50 feet 50 feet to 99 feet Greater than 100 feet		(20 points) (10 points) (0 points) 0
Wellhead Prof (Less than 200 feet from domestic water source, or feet from all other water s	a private ; less than 1,000	Yes No		(20 points) (0 points) 0
Distance to Su (Horizontal distance to perponds, rivers, streams, crecanals and dirches	orennial lakes,	Less than 200 feet 200 feet to 1,000 feet Greater than 1,000 feet		(20 points) (10 points) (0 points) 20
		RANKING SCORE	(TOTAL POINTS):	20

Navajo Indian B #6M		
Date Remediation Started:	6/17/98	Date Completed: 6/17/98
Remediation Method:	Excavation x	Approx. Cubic Yard506
(Check all appropriate	Landfarmed X	Amount Landfarmed (cubic yds) 506
sections)	Other	
Remediation Location: (i.e., landfarmed onsite, name and	Onsite X	Offsite
location of offsite facility)		
Backfill Material Location:		
General Description of Rem	edial Action:	
Excavated contaminated soil 12". Soil was aerated by disk	to a pit size of 27' X 23' X 22' and ting/plowing until soil met regulate	d landfarmed soil onsite within a bermed area at a depth of 6" to bry levels.
Vertical extent drilling conduc	cted to 36'. Bottom hole results be	elow OCD guidelines as indicated on attached lab analysis.
Ground Water Encountered	d: No <u>✓</u>	Yes Depth
Final Pit Closure Sampling:	Sample Location Bottom o	of excavation.
(if multiple samples, attach sample result and diagram of	Sample depth 22'	
sample locations and depths.)	Sample date 6/17/98	Sample time 1:05:00 PM
	Sample Results	
	Benzene (ppm)	0.5100
	Total BTEX (ppm)	35.7100
	Field headspace (ppm)	
	TPH (ppm) 280.0	
Vertical Extent (ft) 36		Risk Analysis form attached Yes No
Ground Water Sample:	Yes No	(If yes, see attached Groundwater Site Summary Report)
I HEREBY CERTIFY THAT KNOWLEDGE AND MY B		E IS TRUE AND COMPLETE TO THE BEST OF MY
DATE April 27, 1999 SIGNATURE	wyann	PRINTED NAME Maureen Gannon AND TITLE Project Manager

Navajo #B6M
Burlington
Lease # I-149-IND8468
(D)-19-27N-8W
San Juan County





200' X 150'

LAB: (505) 325-1556

TECHNOLOGIES, LTD.

On Site Technologies, LTD.

Date: 24-Jun-98

CLIENT:

PNM - Public Service Company of NM

Project:

Navajo Indian B6M

Lab Order:

9806072

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-Jun-98

Client:

PNM - Public Service Company of NM

Work Order:

Project:

9806072

Navajo Indian B6M

Lab ID: 9806072-01A

Matrix: SOIL

Client Sample Info: Navajo Indian B6M

Client Sample ID: 9806171305; Bottom Collection Date: 6/17/98 1:05:00 PM

COC Record: 5238

Parameter	Result	PQL	Qual (J nits	DF	Date Analyzed	
DIESEL RANGE ORGANICS	sv	V8015				Analyst DC	
T/R Hydrocarbons: C10-C28	280	25		mg/Kg	1	Analyst: DC 6/24/98	
STEX	SV	V8020A	9,9	'			
Benzene	510	250		µg/Kg	250	Analyst: HR	
Toluene	3000	500		. • •	250	6/19/98	
Ethylbenzene	2400	250		μg/Kg	250	6/19/98	
m,p-Xylene	25000		-	µg/Kg	250	6/19/98	
o-Xylene		500		µg/Kg	25 0	6/19/98	
o Aylone	4800	250	,	µg/Kg	250	6/19/98	
	35710						
	35,710	20.00					

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: 24-Jun-98

Client:

PNM - Public Service Company of NM

Work Order:

9806072

Lab ID:

Project:

9806072-02A Matrix: SOIL

Navajo Indian B6M

Client Sample Info: Navajo Indian B6M

Client Sample ID: 9806171400; Walls

Collection Date: 6/17/98 2:00:00 PM

COC Record: 5238

Parameter	Result	PQL	Qual Units	DF	Date Analyzed		
DIESEL RANGE ORGANICS	SV	V3015			Analyst: DC		
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	6/24/98		
BTEX	sv	V3020A		·	Analyst: HR		
Benzene	ND	1	μg/Kg	1	6/19/98		
Toluene	ND	2	μg/Kg	1	6/19/98		
Ethylbenzene	ND	1	μg/Kg	1	6/19/98		
m,p-Xylene	ND	2	μg/Kg	1	6/19/98		
o-Xylene	ND	1	μg/Kg	1	6/19/98		

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

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LAB: (505) 325-1556

TECHNOLOGIES, LTD.

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

PNM Pit Remediation

Lab Order:

9807058

CASE NARRATIVE

Date: 28-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.



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Jul-98

Client:

PNM - Public Service Company of NM

Work Order:

9807058

700705

9807058-04A

Matrix: SOIL

Lab ID: Project:

PNM Pit Remediation

Client Sample Info: Navajo B #6M LF

Client Sample ID: 9807201030; 6pt. Comp.

Collection Date: 7/20/98 10:30:00 AM

COC Record: 7389

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	. SV	V8015		mg/Kg	1	Analyst: HR 7/24/98

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

1 of 1

P.O. BOX 2606 • FARMINGTON, NM 87499



LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

Vertical Extent Drilling

Lab Order:

9902016

CASE NARRATIVE

Date: 24-Feb-99

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-Feb-99

Client:

PNM - Public Service Company of NM

Work Order:

9902016

Lab ID:

9902016-01A

Matrix: SOIL

Collection Date: 2/2/99 9:35:00 AM COC Record: 7465

Client Sample ID: 9902020935

Client Sample Info: Navajo Indian B #6 M 36ft

Project: Vertical Extent Drilling

Parameter	Result	PQL (Qual Units	DF	Date Analyzed		
DIESEL RANGE ORGANICS	SV	V801 5			Analyst: DC		
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	2/23/99		
BTEX	sv	V802:1B			Analyst: HR		
Benzene	ND	1	μg/Kg	1	2/9/99		
Toluene	ND	2	μg/Kg	1	2/9/99		
Ethylbenzene	ND	1	μg/Kg	1	2/9/99		
m,p-Xylene	11	2	μg/Kg	1	2/9/99		
o-Xylene	ND	1	μg/Kg	1	2/9/99		

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

P.O. BOX 2606 • FARMINGTON, NM 87499

RECORD OF SUBSURFACE **PLORATION**

PHILIP SERVICES CORP.

4000 Monroe Road

Farmington, New Mexico 87401 (505) 326-2262 FAX (505) 326-2388 Borehole # Weil#

Project Number 20731

Phase

6001.77

Project Name PNM Vertical Extent

Project Location NAVATO

Elevation

Borehole Location LTR: D S: 19 T: 27 R: 8

GWL Depth

Drilled By K. PADILLA Well Logged By

Date Started **Date Completed** H. BRADBURY 2/2/99

Drilling Method 4 1/4 ID HSA

Air Monitoring Method PID

!	l		Sample			Depth				
Depth	Sample	Sample	Type &	Sample Description	uscs	Lithology	Air	Monitor	ina	Drilling Conditions
(Feet)	Number	Interval	Recovery	Classification System: USCS	Symbol	Change		nits: PP	•	& Blow Counts
			(inches)	·		(feet)	BZ	вн	S/HS	
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				•	1					BH=Borehole
										S/HS=Sample/Headspace
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Comments:

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Geologist Signature

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