District I P.O. Box 1980, Hobbs, NM State of New Mexico Energy, Minerals and Natural Resources Department SOBRAT I COPY TO
APPROPRIATE
DISTRICT OFFICE
AND I COPY TO
SANTA FE OFFICE

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

Operator:	PNM Gas	Services (Bu	urlington) 1	elephone:	324-3764	1		
Address:	603 W. Elm Str	eet Farmingto	on, NM 874	401					
Facility or Well Name: Rawson #2									
Location:	Unit	В	Sec	35 T	31 N	R 12 W	County	San Juan	
Pit Type:	Separator _		Dehydrat	or 🔽	Othe	r _			
Land Type:	BLM 🔽	State		Fee	Othe	r			
Pit Location:	Pit dir	nensions:	length	20 '	_ width	20 '	depth	3 '	
(Attach diagra	m) Refere	ence: w	ellhead 5	2	other _				
	Footag	e from referer	nce:	90'					
	Direct	ion from refer	ence: <u>85</u>	Degrees		East	North	<u> Z</u>	
			مستعور	, ,.e.	V	West	of South		
Depth to Gro (Vertical distance from seasonal high water ele	contaminants to				an 50 feet to 99 feet n 100 feet			(20 points) (10 points) (0 points)	10
	otection Area:	OF SAN	3000 1000 000		Yes No			(20 points) (0 points)	0
(Less than 200 feet fro domestic water source, feet from all other water	or, less than 1,000	OF IL	ONE .						
,	Surface Water:	Hara di kacamatan dan		200 feet	han 200 feet to 1,000 feet an 1,000 feet			(20 points) (10 points) (0 points)	0
(Horizontal distance to ponds, rivers, streams, canals and ditches				RANKI	NG SCORI	с (ТОТА	L POINTS):	10

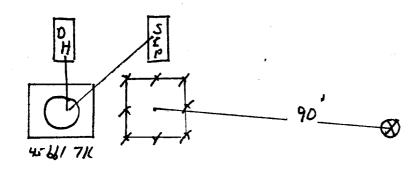
Rawson #2						
Date Remediation Started: 06/01/1999			Date Completed: 06/01/1999			
Remediation Method:	Excavation x		Approx. Cubic Yard	117		
(Check all appropriate	Landfarmed x		Amount Landfarmed	(cubic yds) 77		
sections)	Other 40 cu yds ov	erburden	·			
Remediation Location: (i.e., landfarmed onsite, 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 16' X 22 ing/plowing until soil m	2' X 9' and landfarmet regulatory levels.	ed soil onsite within a be	rmed area at a depth of 6" to		
*** Sandstone encountered a	•	-				
Ground Water Encountered	i: No 5	Yes		Depth		
Final Pit Closure Sampling:	Sample Location	5 pt. composite - I	bottom.			
(if multiple samples, attach sample result and diagram of sample locations and depths.)	Sample depth	9'				
sample locations and depuis.	Sample date 00	6/01/1999	Sample time	8:55:00 AM		
	Sample Results		•			
	Benzene (pp	om)5.	5			
•	Total BTEX		357.5 ***			
	Field headspa	ce (ppm)				
	TPH (ppm)	900.00		8015B		
Vertical Extent (ft)		Risk Ar	nalysis form attached Y	es No		
Ground Water Sample:	Yes	No 🔻	(If yes, see attache Summary Report)	ed Groundwater Site		
I HEREBY CERTIFY THA KNOWLEDGE AND MY E		N ABOVE IS TRU	E AND COMPLETE TO	O THE BEST OF MY		
DATE January 24, 20 SIGNATURE 7	Dann		PRINTED NAME Ma	ureen Gannon ject Manager		

Rawson # 2 Burlington Sec. 35, 31N, 12W, B

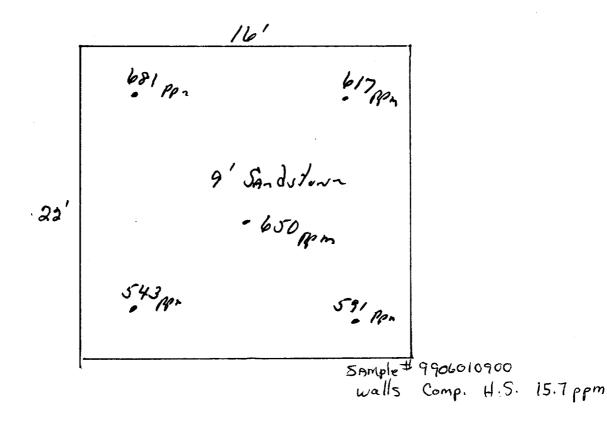
6-1-99

个N

Sile diagram:



End of excavation:



OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

PNM Pit Remediation

Lab Order:

9906010

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.



OFF: (505) 325-5667



LAB: (505) 325-1556

Date: 17-Jun-99

ANALYTICAL REPORT

Client: PNM

PNM - Public Service Company of NM

Work Order:

9906010

Lab ID:

9906010-03A

Matrix: SOIL

Project:

PNM Pit Remediation

Client Sample Info: Rawson #2

Client Sample ID: 9906010855; 9ft. 3

Collection Date: 6/1/99 8:55:00 AM

COC Record: 7602

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SV	V8015B			Analyst: DC
T/R Hydrocarbons: C10-C28	900	25	mg/Kg	1	6/11/99
AROMATIC VOLATILES BY GC/PID	SV	V8021B			Analyst: DC
Benzene	5500	1000	μg/Kg	1000	6/10/99
Toluene	89000	2000	μg/Kg	1000	6/10/99
Ethylbenzene	23000	1000	μg/Kg	1000	6/10/99
m,p-Xylene	190000	2000	μg/Kg	1000	6/10/99
o-Xylene	50000	1000	μg/Kg	1000	6/10/99
•	35750	0			
	357.5		0		

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



5C

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 17-Jun-99

Client:

PNM - Public Service Company of NM

Work Order:

OFF: (505) 325-5667

9906010

9900010

9906010-04A

Matrix: SOIL

Lab ID: Project:

PNM Pit Remediation

Client Sample Info: Rawson #2

Client Sample ID: 9906010900; 6ft. Walls

Collection Date: 6/1/99 9:00:00 AM

COC Record: 7602

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	6/9/99

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

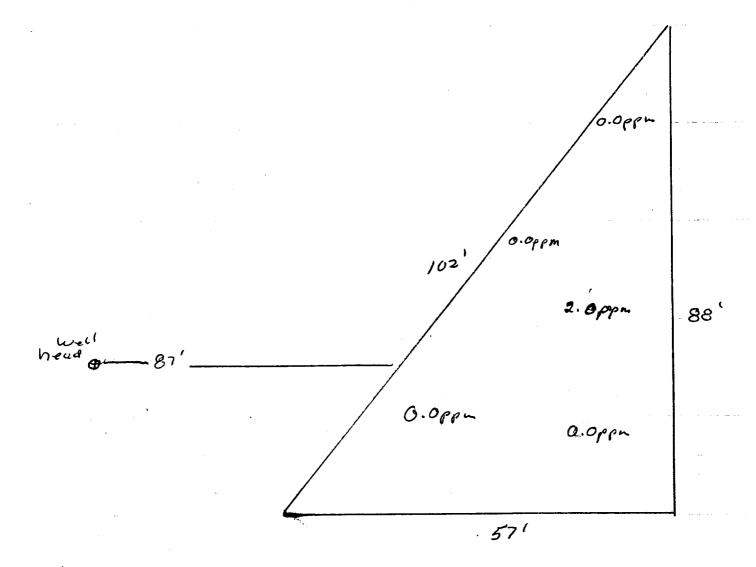
Surr: - Surrogate

1 of 1

RAWSON 2 Sec-35 T-31X R-12W ULB Burlington

Landfarm DRAWing

APP 77 cuyds



2" to 12" Depth Headspace 4.4ppm Sample \$ 9907120948 OFF: (505) 325-5667

TECHNOLOGIES

LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT: PNM - Public Service Company of NM

Project: PNM Pit Remediation Landfarms

Lab Order: 9907027

CASE NARRATIVE

Date: 23-Jul-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.

OFF: (505) 325-5667

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 23-Jul-99

Client:

PNM - Public Service Company of NM

Work Order:

9907027

Lab ID:

9907027-08A

Matrix: SOIL

Project:

PNM Pit Remediation Landfarms

Client Sample Info: Rawson 2 LF

Client Sample ID: 9907120948; 5pt. Comp

Collection Date: 7/12/99 9:48:00 AM

COC Record: 7484

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	SV ND	V8015B 25	mg/Kg	1	Analyst: DC 7/22/99

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

- Temperation of the Branchia Francisco

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

SOTH THE ENGROSMENT -

Surr: - Surrogate

1 of 1



Well Name:

Well Legals:

Pit Type:

Horizontal Distance to Surface Water:

Groundwater Depth:

Rawson #2
Unit B, Sec 35, T31N, R12W
Dehydrator
Greater than 1,000 feet

50 feet to 99 feet

RISK ANALYSIS

PNM requests closure of their former pit on the Rawson #2 well site using a limited risk analysis based on the following conditions:

- 1. Groundwater is estimated to be at a depth of 92 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Flora Vista, NM series 7.5 minute topographic map.)
- 2. PNM excavated 117 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.
- 3. Sandstone was encountered at 9 feet below ground surface. Bedrock/sandstone provides a barrier between remaining contamination and groundwater. Vertical migration through bedrock or sandstone to groundwater is unlikely.
- 4. PNM excavated and performed remediation to the maximum depth and horizontal extent practicable.

PNM believes that their former pit on the Rawson #2 well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.