

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

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

District III
1000 Rio Brazos Rd, Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Street
Santa Fe, New Mexico 87505

RISK
bedrock
SUBMIT 1 COPY TO
APPROPRIATE
DISTRICT OFFICE
AND 1 COPY TO
SANTA FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

Operator: PNM Gas Services (Burlington)		Telephone: 324-3764	
Address: 603 W. Elm Street Farmington, NM 87401			
Facility or Well Name: Hanks #14			
Location:	Unit M	Sec 12	T 27N R 10W County San Juan
Pit Type:	Separator <input checked="" type="checkbox"/>	Dehydrator <input type="checkbox"/>	Other
Land Type:	BLM <input checked="" type="checkbox"/>	State <input type="checkbox"/>	Fee <input type="checkbox"/> Other
Pit Location:	Pit dimensions:	length 15'	width 15' depth 3'
(Attach diagram)	Reference:	wellhead <input checked="" type="checkbox"/>	other
	Footage from reference:	177'	
	Direction from reference:	64 Degrees <input type="checkbox"/> East	North <input checked="" type="checkbox"/>
		<input checked="" type="checkbox"/> West	South <input type="checkbox"/>
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)	20
Wellhead Protection Area:		Yes (20 points)	
(Less than 200 feet from a private domestic water source, or, less than 1,000 feet from all other water sources)		No (0 points)	0
Distance to Surface Water:		Less than 200 feet (20 points)	
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)		200 feet to 1,000 feet (10 points)	
		Greater than 1,000 feet (0 points)	0
RANKING SCORE (TOTAL POINTS):			20

Hanks #14

Date Remediation Started: 07/13/1999

Date Completed: 07/13/1999

Remediation Method: Excavation ☒

Approx. Cubic Yard 249

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds) 240

Other 9 cu yds clean overburden.

Remediation Location: Onsite

Offsite

Tierra Environmental

(i.e., landfarmed onsite, name and location of offsite facility)

Backfill Material Location:

General Description of Remedial Action:

Excavated contaminated soil to a pit size of 24' X 28' X 10' and transported soil to an offsite commercial landfarm.

*** Sandstone encountered at 10'. See attached risk analysis form.

Ground Water Encountered:

No



Yes



Depth

Final Pit Closure Sampling:

Sample Location 5 pt. composite - bottom.

(if multiple samples, attach sample result and diagram of sample locations and depths.)

Sample depth 10'

Sample date 07/13/1999

Sample time 10:10:00 AM

Sample Results

Benzene (ppm) 4.2

Total BTEX (ppm) 356.2 ***

Field headspace (ppm)

TPH (ppm) 2060.00 *** Method 8015B

Vertical Extent (ft)

Risk Analysis form attached Yes ☒ No ☐

Ground Water Sample:

Yes



No



(If yes, see attached Groundwater Site Summary Report)

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND MY BELIEF

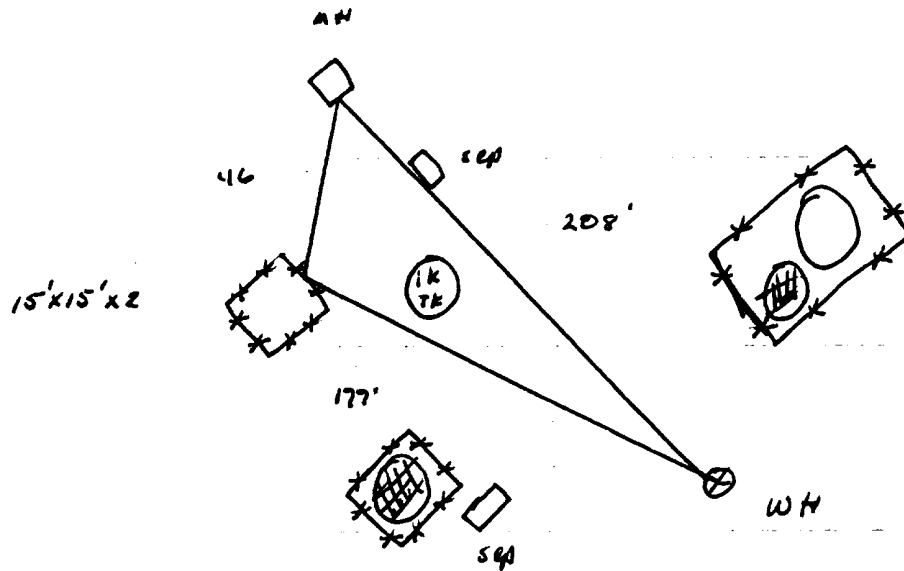
DATE January 24, 2000

SIGNATURE

PRINTED NAME Maureen Gannon
AND TITLE Project Manager

Hawks #14
 (M) 12-27N-10W
 Burlington
 7-13-94 @ 0818
 41° W of 2

↑
 N



Excavation Sampling

(N+5) x (E+W) x 10' (6)

PID Readings

5' - 1081 ppm
 10' - 452 ppm

north wall sample
 at 4' - 5.7 ppm

west wall sample
 at 4' - 858 ppm

East wall sample
 at 4' - 47.5 ppm

5 point bottom composite sample
 at 10' - 1281 ppm

south wall sample
 at 4' - 130 ppm

not to scale

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

Date: 28-Jul-99

CLIENT: PNM - Public Service Company of NM

Project: PNM Pit Remediation

Lab Order: 9907032

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



RAY

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Jul-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Hanks #14
Work Order:	9907032	Client Sample ID:	9907131010; 5pt. Comp
Lab ID:	9907032-03A	Matrix:	SOIL
Project:	PNM Pit Remediation	Collection Date:	7/13/99 10:10:00 AM
		COC Record:	7648

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	2060	25		mg/Kg	1	7/26/99
AROMATIC VOLATILES BY GC/PID		SW8021B				Analyst: DC
Benzene	4200	2500		µg/Kg	2500	7/16/99
Toluene	90000	5000		µg/Kg	2500	7/16/99
Ethylbenzene	22000	2500		µg/Kg	2500	7/16/99
m,p-Xylene	200000	5000		µg/Kg	2500	7/16/99
o-Xylene	40000	2500		µg/Kg	2500	7/16/99

356200
356.2 ppm

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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P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY SERVING INDUSTRY WITH THE ENVIRONMENT -

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 28-Jul-99

Client:	PNM - Public Service Company of NM	Client Sample Info:	Hanks #14
Work Order:	9907032	Client Sample ID:	9907131015; 4 Wall Comp
Lab ID:	9907032-04A	Matrix:	SOIL
Project:	PNM Pit Remediation	Collection Date:	7/13/99 10:15:00 AM
		COC Record:	7648

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C10-C28	220	25		mg/Kg	1	7/26/99

- 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



Environmental Services

Well Name:	Hanks #14
Well Legals:	Sec 12, T27N, R10W, Unit M
Pit Type:	Separator
Horizontal Distance to Surface Water:	Greater than 1,000 feet
Groundwater Depth:	Less than 50 feet

RISK ANALYSIS

PNM requests closure of their former pit on the Hanks #14 well site using a limited risk analysis based on the following conditions:

1. Groundwater is estimated to be at a depth of 30 feet based upon the elevation of the site and the elevation of the nearest "listed" or "named" wash. (Reference: Huerfanito Peak, NM series 7.5 minute topographic map.)
2. PNM excavated 249 cubic yards of soil from the former pit. Source removal minimizes the possibility of surface water contamination.
3. Sandstone was encountered at 10 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 Hanks #14 well site poses minimal threat to groundwater, human health and the environment based upon our past experience in excavating over 1,000 pits.