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

Distance to Surface Water:

(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation

canals and ditches

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

2040 South Pacheco Street Santa Fe, New Mexico 87505

PIT REMEDIATION AND CLOSURE REPORT

RISK analysis

SUBMIT I COPY TO APPROPRIATE DISTRICT OFFICE AND I COPY TO SANTA FE OFFICE





(20 points)

(10 points)

(0 points)

(TOTAL POINTS):

0

0

PNM Gas Services (Burlington 324-3764 Operator:) Telephone: Address: 603 W. Elm Street Farmington, NM 87401 Facility or Well Name: Culpepper Martin #15A Location: County Sec 21 32 N R 12 W San Juan Pit Type: Separator Dehydrator Other Land Type: BLM State Other Fee Pit Location: Pit dimensions: length width depth 20 ' 20 ' 3 ' (Attach diagram) Reference: wellhead other Footage from reference: 90' Direction from reference: Degrees East North 80 of West South Depth to Ground Water: Less than 50 feet (20 points) 50 feet to 99 feet (10 points) Greater than 100 feet 0 (0 points) (Vertical distance from contaminants to seasonal high water elevation of ground water Wellhead Protection Area: Yes (20 points) No (0 points) 0 (Less than 200 feet from a private domestic water source, or; less than 1,000 feet from all other water sources)

Less than 200 feet

200 feet to 1,000 feet

RANKING SCORE

Greater than 1,000 feet

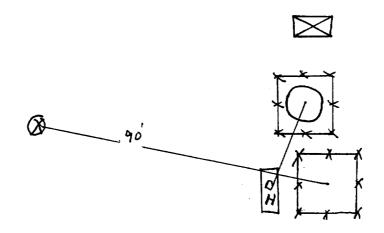
ulpepper Martin #15A						Data Control			
Date Remediation Started:	05/05/1999					Date Completed:	05/0	5/1999	
Remediation Method:	Excavation	n	Х			Approx. Cubic Ya	ard	311	
(Check all appropriate	Landfarmed X					271			
sections)	Other 40 cu. yds. overburden.			· · · · · –					
Remediation Location: (i.e., landfarmed onsite, name and location of offsite facility)	Onsite	X				Offsite			
Backfill Material Location:								· · · · · · · · · · · · · · · · · · ·	
General Description of Ren	nedial Acti	on:							
Excavated contaminated soi to 12". Soil was aerated by c							a bermed are	a at a depth	of 6"
*** Vertical extent drilling con	nducted to	55'. Bott	om hole res	sults b	elow O	CD guidelines as inc	dicated on atta	ched lab an	alysis.
		· <u></u>							
Ground Water Encountere	d:	No _	¥		Yes		Depth		
Final Pit Closure Sampling:	Sample I	ocation.	3 pt.	compo	osite - b	ottom.			
(if multiple samples, attach sample result and diagram of	Sample	depth	20'						
sample locations and depths.)	Sample	date -	05/05/19	999		Sample time	8	3:00:00 AM	
	Sample 1	Results				•			
		Benzene	(ppm)		0.6	8			
		Total BT	ΓEX (ppm	_	1	06.08 ***			
	F	ield hea	dspace (p	pm) _	43.6				
	TPH (p	pm)	6	20.00		Method	8015B		
Vertical Extent (ft) 55'				F	Risk An	alysis form attached	d Yes	No	<u>v</u>
Ground Water Sample:	Ye	s	<u> </u>	No _	✓	(If yes, see at Summary Re	tached Ground port)	lwater Site	
I HEREBY CERTIFY THA KNOWLEDGE AND MY		FORMA	ATION AB	OVE I	S TRU	E AND COMPLET	E TO THE BE	EST OF MY	•
DATE October 28, 19 SIGNATURE	urue Ha	un	_			PRINTED NAME AND TITLE	Maureen G Project Ma		

Culpepper Mertin # 15A Burlington Sec. 21, 32N, 12W, I

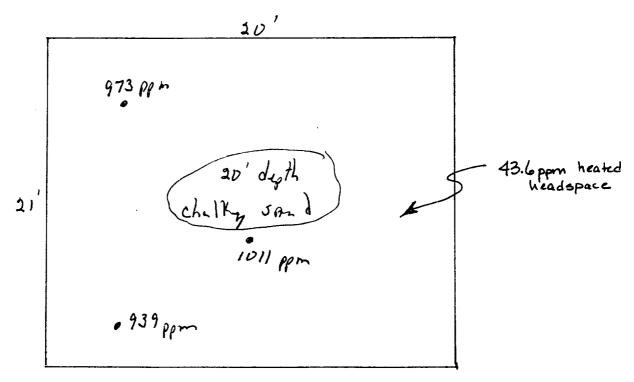
个N

5/5-/99

Site digram:



End of excavation:



ON SITE
TECHNOLOGIES, LTD.

OFF: (505) 325-5667

LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

Culpepper Martin #15A

Lab Order:

9905029

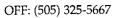
CASE NARRATIVE

Date: 18-May-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: 18-May-99

Client:

PNM - Public Service Company of NM

Work Order:

9905029

Lab ID:

JJ0302J

9905029-01A

Matrix: SOIL

Project:

Culpepper Martin #15A

Client Sample Info: Culpepper Martin #15A

Client Sample ID: 9905050800; Bottom @ 20ft.

Collection Date: 5/5/99 8:00:00 AM

COC Record: 7590

Parameter	Result	PQL Q	ual Units	DF	Date Analyzed	
DIESEL RANGE ORGANICS	sv	V8015B			Analyst: DC	
T/R Hydrocarbons: C10-C28	620	25	mg/Kg	1	5/17/99	
AROMATIC VOLATILES BY GC/PID	SV	V8021B			Analyst: DM	
Benzene	680	500	μ g /Kg	500	5/13/99	
Toluene	26000	1000	μg/Kg	500	5/13/99	
Ethylbenzene	6400	500	μg/Kg	500	5/13/99	
m,p-Xylene	58000	1000	μg/Kg	500	5/13/99	
o-Xylene	15000	500	μg/Kg	500	5/13/99	

106.080 106.08 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

1 of 1

OFF: (505) 325-5667



LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 18-May-99

Client:

PNM - Public Service Company of NM

Work Order:

9905029

9905029-02A

Matrix: SOIL

Lab ID: Project:

Culpepper Martin #15A

Client Sample Info: Culpepper Martin #15A

Client Sample ID: 9905050805; Walls @ 15ft.

Collection Date: 5/5/99 8:05:00 AM

COC Record: 7590

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 5/10/99

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

OFF: (505) 325-5667



LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

Culpepper Martin 5, 1A, 15A & 4A LF

Lab Order:

9906073

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 TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: 07-Jul-99

Client:

PNM - Public Service Company of NM

Work Order:

9906073

9906073-03A

Matrix: SOIL

Lab ID: Project:

Culpepper Martin 5, 1A, 15A & 4A LF

Client Sample Info: Culpepper Martin 15A

Client Sample ID: 9906241010; 5pt Comp

Collection Date: 6/24/99 10:10:00 AM

COC Record: 7723

Parameter	Result	PQL	Qual Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SV	V8015B			Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	7/6/99

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



LAB: (505) 325-1556

On Site Technologies, LTD.

CLIENT:

PNM - Public Service Company of NM

Project:

Vertical Extent Drilling

Lab Order:

9909034

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: 29-Sep-99

ANALYTICAL REPORT

Client:

PNM - Public Service Company of NM

Work Order:

9909034

Lab ID:

9909034-03A

Matrix: SOIL

Project:

Vertical Extent Drilling

Client Sample Info: Culpepper Martin #15A @ 55ft.

Client Sample ID: 9909091340; Vertical Extent

Collection Date: 09/09/1999 1:40:00 PM

COC Record: 7759

Parameter	Result	PQL	Qual Units	DF	Date Analyzed	
DIESEL RANGE ORGANICS	SV	V8015B		-	Analyst: DC	
T/R Hydrocarbons: C10-C28	ND	25	mg/Kg	1	09/24/1999	
AROMATIC VOLATILES BY GC/PID	SI	V8021B			Analyst: DM	
Benzene	ND	1	μg/Kg	1	09/15/1999	
Toluene	ND	2	μg/Kg	1	09/15/1999	
Ethylbenzene	ND	1	μg/Kg	1	09/15/1999	
m,p-Xylene	ND	2	μg/Kg	1	09/15/1999	
o-Xylene	ND	1	μg/Kg	1	09/15/1999	

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

I of I

RECORD OF SUBSURFACE EXPLORA N

Philip Environmental Services Corp.

4000 Monroe Road

Farmington, New Mexico 87401 (606) 326-2282 FAX (606) 326-2388

Elevation

Borehole Location

GWL Depth

NOTENCOUNTERED

Logged By

C-CULLICOTT

Date/Time Started 9/9/99

Date/Time Completed 9/9/99

Borehole #
Well #
Page | of Z

Project Name PNM VERTICALEXTENT
Project Number 62800044 Phase 6001
Project Location CULPEPPER MARTINEISA

Well Logged By
Personnel On-Site
Contractors On-Site
Client Personnel On-Site

CARY COOK

Air Monitoring Method

Drilling Method AUGER

Depth	Sample	Sample Type &	Sample Description	uscs	Depth Lithology	Air	Monitoria	na .	Drilling Conditions
(Feet)	Interva	Recovery	Classification System: USCS	Symbol	Change (feet)	BZ	nite: NDl BH	S	& Blow Counts
0			C-20' CLEAN FILL						
10				And a second many of the first					
15				AND THE WORLD SELECT THE AND THE COMMENTS OF					
20	© 20°		DOOD BECOLONY. CAPPERAY" DAMPBROWN SILTY LLAN WISOMESAM	اد					D9BLOWS SS 627 ppm
25			BELOW SILTY FINESAM BOTH WODOR, NOSTAIN DAMPBROUNCLAYES SILTWISOMESAND. DON, NOSTAIN	4					6 5 3 6 0 W 5 SS 427 PPM HS 515 PPM
	3) 30 31 9 35	2	3 NO" RECOVERY LOOSE DRY, BALUN SANDY SILT. ODOR						322 BLOWS 55 635 PPM HS 474 PPM (4) 22 BLOWS
40			DRYBROWN SANDY SILT, MORE CONSOLID THAN #3. COOR NOS	ATG(7				55 529 ppm HS 457 ppm

Comments: Partly CLOUDY, BREEZY, THEN SUNNY
SITE IS LOCATED ADJACENT TO M WASH

RECORD OF SUBSURFACE EXPLORA. N

ENCOUNTERED

919199

K. PADILLA & O. PADILLA

11:30am

2:05

Philip Environmental Services Corp.

Date/Time Completed 9/9/99

4000 Monroe Road

Borehole Location

Date/Time Started

Elevation

GWL Depth

Logged By

Drilled By

Farmington, New Mexico 87401 (505) 326-2262 FAX (505) 326-2388 Project Name Project Number

1740145L

990 PEI

PNM VERTICAL 3800044 Phase

Project Location

CULPEPPER M

Well Logged By Personnel On-Site CULLILOTT PADILLAS

Contractors On-Site Client Personnel On-Site

Drilling Method

AUGER Air Monitoring Method

Depth (Feet)		Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	, Air Monitoring Units: NDU BZ BH S	Drilling Conditions & Blow Counts
D	7	45-12 45-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-		BAY RECOVERY. DYBROWN SANDY SILT, GDOR, NO STAIN. EXTREME BOTTOM DE SPLIT SPOON- CONSOLIDATED SILTY SAND. BAST RECOVERY DARK BROWN SANDY SILT, STIFF, DAMF. SOME COVERYDART UPPER H" STIFF, DAMF. STRONG COOR POORLY SORTED SAND SUITH PROUNTSICTSTONE WITH SCATFERD SAND SLIGHT ODER. TO 55 AT REFUSAL ON SILTSTONE			8.1	\$ 31 BLOWS 55 472 ppm HS 246 ppm 6 31 BLOWS 55 543 ppm HS 460 ppm \$ 31 BLOWS 55 461 ppm \$ 504 BLOWS 55 66.6 ppm HS

HOLE BACKFILLEN WITH CUTTINGS & CLEAN FILL Comments:

Geologist Signature