

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

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

Risk -  
vertical  
extent

40 feet

RECEIVED  
NOV - 1 1999

OIL COR. DIST.  
DIST. 3

**PIT REMEDIATION AND CLOSURE REPORT**

<b>Operator:</b> PNM Gas Services ( Burlington )		<b>Telephone:</b> 324-3764	
<b>Address:</b> 603 W. Elm Street Farmington, NM 87401			
<b>Facility or Well Name:</b> Decker #4A Dehy			
<b>Location:</b>	Unit <u>O</u>	Sec <u>10</u>	T <u>32 N</u> R <u>12 W</u> County <u>San Juan</u>
<b>Pit Type:</b>	Separator <input type="checkbox"/>	Dehydrator <input checked="" type="checkbox"/>	Other _____
<b>Land Type:</b>	BLM <input type="checkbox"/>	State <input type="checkbox"/>	Fee <input checked="" type="checkbox"/> Other _____
<b>Pit Location:</b>	Pit dimensions: length <u>20</u> ' width <u>20</u> ' depth <u>3</u> '		
(Attach diagram)	Reference: wellhead <input checked="" type="checkbox"/> other _____		
	Footage from reference: <u>108</u> '		
	Direction from reference: <u>90</u> Degrees <input checked="" type="checkbox"/> East <input checked="" type="checkbox"/> North <input type="checkbox"/> West <input type="checkbox"/> South _____ of _____		
<b>Depth to Ground Water:</b>			
(Vertical distance from contaminants to seasonal high water elevation of ground water)			
Less than 50 feet (20 points)			
50 feet to 99 feet (10 points)			
Greater than 100 feet (0 points) <u>0</u>			
<b>Wellhead Protection Area:</b>			
(Less than 200 feet from a private domestic water source, or; less than 1,000 feet from all other water sources)			
Yes (20 points)			
No (0 points) <u>0</u>			
<b>Distance to Surface Water:</b>			
(Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)			
Less than 200 feet (20 points)			
200 feet to 1,000 feet (10 points)			
Greater than 1,000 feet (0 points) <u>0</u>			
<b>RANKING SCORE (TOTAL POINTS):</b> <u>0</u>			

Decker #4A Dehy

Date Remediation Started: 04/28/1999

Date Completed: 04/28/1999

Remediation Method:

Excavation ☒

Approx. Cubic Yard 518

(Check all appropriate sections)

Landfarmed ☒

Amount Landfarmed (cubic yds) 478

Other 40 cu. yds. overburden

Remediation Location:

Onsite

☒

Offsite

(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 28' X 25' X 20' and landfarmed soil onsite within a bermed area at a depth of 6" to 12". Soil was aerated by disking/plowing until soil met regulatory levels.

\*\*\* Vertical extent drilling conducted to 40'. Bottom hole results below OCD guidelines as indicated on attached lab analysis.

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

20'

Sample date

04/28/1999

Sample time

11:00:00 AM

Sample Results

Benzene (ppm) < 0.5

Total BTEX (ppm) 91.9\*\*\*

Field headspace (ppm)

TPH (ppm)

580.00

Method

8015B

Vertical Extent (ft) 40'

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 October 28, 1999

SIGNATURE



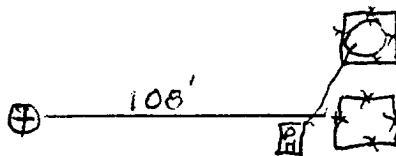
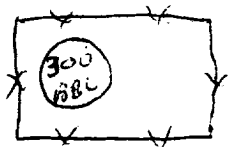
PRINTED NAME Maureen Gannon  
AND TITLE Project Manager

Decker 4A  
Sec-10 T-32N  
Burlington

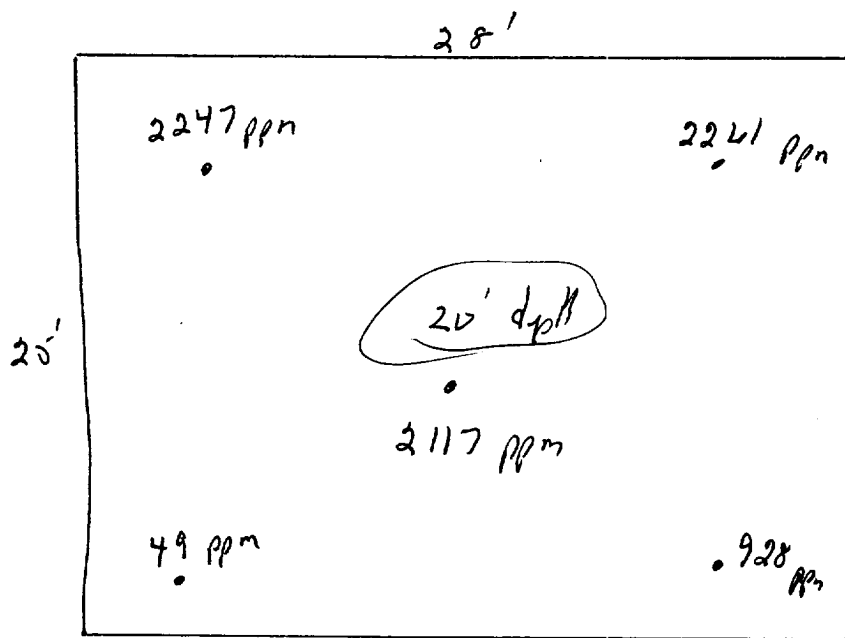
R-12W 42-0

Site Drawing

4/28/99



End of Excavation



Not to Scale

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 14-May-99

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**CLIENT:** PNM - Public Service Company of NM  
**Project:** Decker #4A Dehy  
**Lab Order:** 9904065

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**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.

LC

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 14-May-99

**Client:** PNM - Public Service Company of NM  
**Work Order:** 9904065  
**Lab ID:** 9904065-01A **Matrix:** SOIL  
**Project:** Decker #4A Dehy

**Client Sample Info:** Decker #4A Dehy  
**Client Sample ID:** 9904281100; Bottom @ 20ft.  
**Collection Date:** 4/28/99 11:00:00 AM  
**COC Record:** 7578

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015B</b>				Analyst: DC
T/R Hydrocarbons: C10-C28	580	25		mg/Kg	1	5/7/99
<b>AROMATIC VOLATILES BY GC/PID</b>		<b>SW8021B</b>				Analyst: DM
Benzene	ND	500		µg/Kg	500	4/28/99
Toluene	12000	1000		µg/Kg	500	4/28/99
Ethylbenzene	3900	500		µg/Kg	500	4/28/99
m,p-Xylene	61000	1000		µg/Kg	500	4/28/99
o-Xylene	15000	500		µg/Kg	500	4/28/99

91900  
91.9 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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OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 14-May-99

**Client:** PNM - Public Service Company of NM  
**Work Order:** 9904065  
**Lab ID:** 9904065-02A     **Matrix:** SOIL  
**Project:** Decker #4A Dehy

**Client Sample Info:** Decker #4A Dehy  
**Client Sample ID:** 9904281110; Walls @ 15ft.  
**Collection Date:** 4/28/99 11:10:00 AM  
**COC Record:** 7578

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015B</b>				Analyst: DC
T/R Hydrocarbons: C10-C28	52	25		mg/Kg	1	5/7/99
<b>AROMATIC VOLATILES BY GC/PID</b>		<b>SW8021B</b>				Analyst: DM
Benzene	ND	1		µg/Kg	1	4/28/99
Toluene	4.1	2		µg/Kg	1	4/28/99
Ethylbenzene	5.8	1		µg/Kg	1	4/28/99
m,p-Xylene	37	2		µg/Kg	1	4/28/99
o-Xylene	20	1		µg/Kg	1	4/28/99

66.9  
~~37.9~~  
• 0669 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

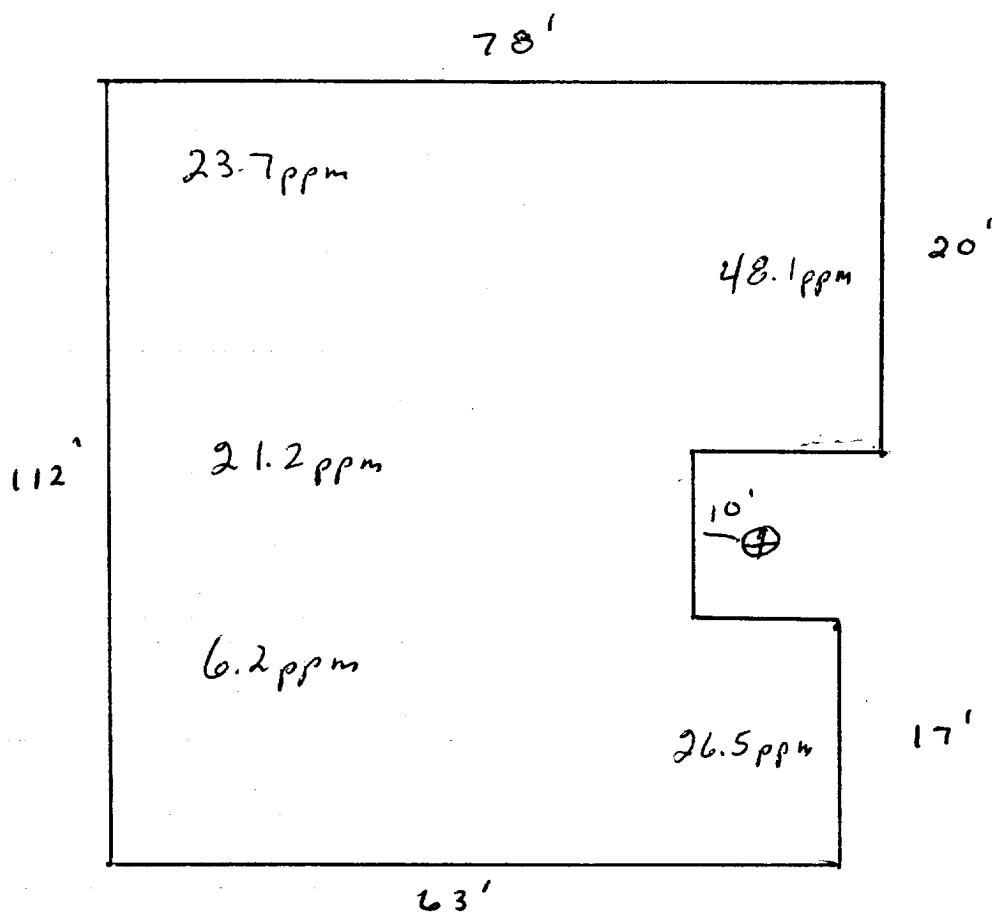
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- TECHNOLOGY SERVING INDUSTRY WITH THE ENVIRONMENT -

Decker 4A (~~SEA~~)  
Sec-10 T-32N R-12W 42-0  
Burlington

LANDFARM DRAWING

App - 478 cu yds



2" to 12" depth

HEADSPACE 88.6 ppm

SAMPLE # 9906091318

Not to Scale

OFF: (505) 325-5667



LAB: (505) 325-1556

**On Site Technologies, LTD.**

**Date:** 21-Jun-99

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**CLIENT:** PNM - Public Service Company of NM  
**Project:** PNM Landfarms  
**Lab Order:** 9906042

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**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.



RB

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 21-Jun-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Decker 4A (DH) LF
<b>Work Order:</b>	9906042	<b>Client Sample ID:</b>	9906091318; 5pt. Comp
<b>Lab ID:</b>	9906042-02A	<b>Matrix:</b>	SOIL
<b>Project:</b>	PNM Landfarms	<b>Collection Date:</b>	6/9/99 1:18:00 PM
		<b>COC Record:</b>	7718

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015B</b>				Analyst: DC
T/R Hydrocarbons: C10-C28	49	25		mg/Kg	1	6/16/99

<b>Qualifiers:</b>	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

1 of 1

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**On Site Technologies, LTD.**

Date: 01-Oct-99

**CLIENT:** PNM - Public Service Company of NM**Project:** Vertical Extent Drilling**Lab Order:** 9909071**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.

Analytical Comments for Method BTEX\_S; SAMPLE 9909071-02A, Culpepper Martin #3A @ 75ft. 9909231417: The reported value for Toluene, 430 ug/Kg, is flagged as E - Value above quantitation range. The sample was re-analyzed on 9/27/99 at a two-fold (2X) dilution for confirmation within the quantitation range. Upon re-analysis it was observed that the recovery of each volatile compound was significantly less (~10X) than values observed in the original analysis on 9/24/99. The loss of volatiles is suspect to volatilization and/or degradation and therefore Toluene was reported from the original analysis and appropriately qualified.

OFF: (505) 325-5667



LAB: (505) 325-1556

## ANALYTICAL REPORT

Date: 01-Oct-99

<b>Client:</b>	PNM - Public Service Company of NM	<b>Client Sample Info:</b>	Decker #4A Dehy
<b>Work Order:</b>	9909071	<b>Client Sample ID:</b>	9909231000 @ 40ft.
<b>Lab ID:</b>	9909071-01A	<b>Matrix:</b>	SOIL
<b>Project:</b>	Vertical Extent Drilling	<b>Collection Date:</b>	09/23/1999 10:00:00 AM
		<b>COC Record:</b>	7761

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015B</b>				Analyst: DC
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	09/28/1999
<b>AROMATIC VOLATILES BY GC/PID</b>		<b>SW8021B</b>				Analyst: DM
Benzene	2.1	2		µg/Kg	2	09/24/1999
Toluene	44	4		µg/Kg	2	09/24/1999
Ethylbenzene	13	2		µg/Kg	2	09/24/1999
m,p-Xylene	190	4		µg/Kg	2	09/24/1999
o-Xylene	51	2		µg/Kg	2	09/24/1999

300.1  
3001 ppm

<b>Qualifiers:</b>	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

# RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 326-2388

Borehole # 1

Well #                     

Page 1 of 2

Project Name PNM VERTICAL EXTENT

Project Number 62800044 Phase 35

Project Location DECKER 4A DEHY

Elevation                     

Borehole Location T32N R12W S10 O

GWL Depth NONE ENCOUNTERED

Logged By C. CULLICOTT

Drilled By K. PADILLA & D. PADILLA

Date/Time Started 9/23/99 9am

Date/Time Completed 9/23/99 10:20am

Well Logged By C. CULLICOTT

Personnel On-Site K. PADILLA & D. PADILLA

Contractors On-Site                     

Client Personnel On-Site GRARY COOK

Drilling Method AUGER

Air Monitoring Method PID

Depth (Feet)	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU			Drilling Conditions & Blow Count
						BZ	BH	S	
0									
5									
10									
15									
20	① 20'-21 1/2'		① BROWN SILT, SLIGHTLY STIFF, SLIGHTLY DAMP, STRONG ODOOR, NO STAIN, FULL RECOVERY						① 9 BLOWS SS 280 ppm HS 493 ppm
25	② 25'-26 1/2'		② BROWN SILT, MORE STIFF THAN #1, TRACE % SAND, SLIGHTLY DAMP, STRONG ODOOR, NO STAIN, 12" RECOVERY						② 10 BLOWS SS 284 ppm HS 463 ppm
30	③ 30'-32 1/2'		③ BROWN SAND, CONSOLIDATED, BENEATH, NOT STIFF, MOSTLY FINE W/SOME COARSE / MEDIUM GRAINS, STRONG ODOOR, NO STAIN, 12" RECOVERY						③ 12 BLOWS SS 315 ppm HS 707 ppm
35	④ 35'-36 1/2'		④ OVER						④ 45+ BLOWS SS 1215 ppm HS 600.9 ppm
40									

Comments: OVERCAST, COOL, LIGHT BREEZE

Geologist Signature Cathy Cullcott

Vertical Extent

④ 35-36½'

45+ BLOWS

ss 215 ppm

BROWN SILTY FINE SAND, MODERATELY STIFF.

CALICHE + WOODY DEBRIS IN PLACES.

"SHALY" PARTINGS. ODOR, NO STAIN

# RECORD OF SUBSURFACE EXPLORATION

Philip Environmental Services Corp.

4000 Monroe Road

Farmington, New Mexico 87401

(505) 326-2262 FAX (505) 326-2388

Borehole # 1

Well #       

Page 2 of 2

Project Name PNM VERTICAL EXTENT

Project Number 02800044 Phase 35

Project Location DECKER 4A DEMY

Elevation       

Borehole Location T32N R12W S10 O

GWL Depth NONE ENCOUNTERED

Logged By C. COLLICOTT

Drilled By K. PADILLA & D. PADILLA

Date/Time Started 9/23/99 9am

Date/Time Completed 9/23/99 10:15am

Well Logged By C. COLLICOTT

Personnel On-Site K. PADILLA & D. PADILLA

Contractors On-Site Ø

Client Personnel On-Site GARY COOK

Drilling Method AUGER

Air Monitoring Method PID

Depth (Feet)	Sample Interval	Sample Type & Recovery (inches)	Sample Description Classification System: USCS	USCS Symbol	Depth Lithology Change (feet)	Air Monitoring Units: NDU			Drilling Conditions & Blow Counts
						BZ	BH	S	
TO 40	5	40-46 1/2	⑤ BROWN SILTY SANDSTONE. W/ TAN MATRIX. MOSTLY FINE SAND. OOCR. 4" RECOVERY  TD 40' REFUSAL ON SANDSTONE						⑤ 30+ BLOWS SS 254 ppm HS        ppm
40									
35									
30									
25									
20									
15									
10									
5									
0									

Comments: HOLE BACKFILLED WITH CUTTINGS

Geologist Signature Cathy Collicott