

**Goering, Darlene, NMENV**

**From:** Goering, Darlene, NMENV  
**Sent:** Friday, October 26, 2007 11:41 AM  
**To:** 'Bruce Wedgeworth'  
**Cc:** Kieling, John, NMENV; Cobrain, Dave, NMENV  
**Subject:** RE: MDA T Request

Bruce,

We received your request to relocate 2 of the 3 boreholes for vapor monitoring. We concur with the new locations and understand, based on our phone conversation this morning, that you still endeavor to use the existing boreholes if you receive timely permission. If you should encounter anything unusual or unexpected (for example, fractures, moisture, or the elusive paleochannel) during the drilling at these 2 new boreholes, you must notify NMED within 24 hours.

*Darlene Goering, Environmental Specialist  
Hazardous Waste Bureau  
New Mexico Environment Department  
2905 Rodeo Park Drive East, Bldg. 1  
Santa Fe, NM 87505  
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505-476-6030 Fax*

**From:** Bruce Wedgeworth [mailto:brucew@lanl.gov]  
**Sent:** Wednesday, October 24, 2007 3:09 PM  
**To:** Goering, Darlene, NMENV  
**Subject:** MDA T Request

Darlene,

We propose to move the locations of two of the permanent vapor monitoring wells (21-25262, BH-01; 21-25263, BH-02) from within the SWMU boundaries of MDA T to outside of the SWMU boundaries and fence line to assist in getting an immediate start, which is currently not possible because of requirements within nuclear sites. The new locations are shown on the attached figure. We propose to use a drill rig and hollow-stem augers to reach the same target depths of 380 and 354 ft in Boreholes 01 and 02, respectively. We will not collect additional soil samples but we will monitor the drill cuttings for greater than background radiological levels. Once the target depths are reached the vapor monitoring wells will be installed per the approved Phase II Work Plan.

Two fracture zones were identified and sampled when BH-01 was drilled in December 2005 and January 2006. The fractures were encountered at depth intervals of 22.0-23.5 ft and 141.9-143.4 ft. The table below lists the borehole location ID, sampled depth intervals, analyte, and activity. All of the activities are very low and there is no indication of an association of higher activity with fractures. There were no fracture zones identified in BH-02. The paleochannel was not observed in either of the boreholes.

Borehole Location ID	Depth of Sample Collection (ft bgs)	Analyte	Activity (pCi/g)
21-25262	22.0-23.5	Tritium	0.107
21-25262	141.9-143.4	Tritium	0.403



21-25262

141.9-143.4

U-235

0.108

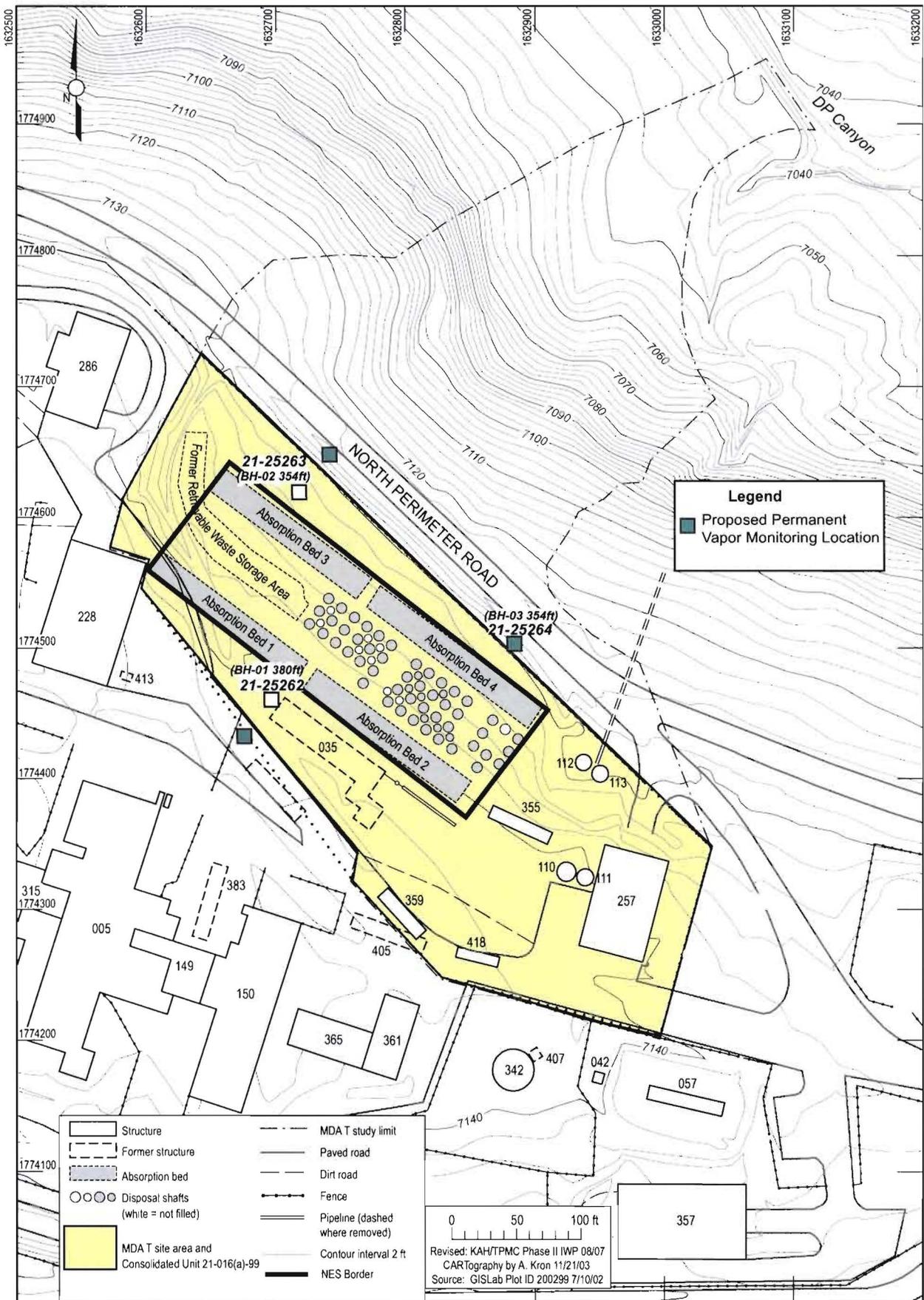
Your prompt response to our proposal would be much appreciated.

Thanks,  
Bruce

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	Structure		MDA T study limit
	Former structure		Paved road
	Absorption bed		Dirt road
	Disposal shafts (white = not filled)		Fence
	MDA T site area and Consolidated Unit 21-016(a)-99		Pipeline (dashed where removed)
			Contour interval 2 ft
			NES Border