



**DEPARTMENT of ENVIRONMENT  
and NATURAL RESOURCES**

JOE FOSS BUILDING  
523 EAST CAPITOL  
PIERRE, SOUTH DAKOTA 57501-3182  
[www.state.sd.us/denr](http://www.state.sd.us/denr)

January 25, 2005

Marcia Elkins  
Growth Management  
City Of Rapid City  
300 6<sup>th</sup> Street  
Rapid City, SD 57701

RE: Former Woody's Convenience, 523 Crazy Horse, Rapid City, SD

Dear Ms. Elkins:

It is the understanding of the Department of Environment and Natural Resources (department) that the City Council of Rapid City has requested information regarding the above referenced site. Unfortunately, the department will be unable to have someone available to discuss this site with the city council. However, the department has prepared the attached summary of the site. Hopefully, this information will be sufficient for their needs.

Should you require additional information please contact me.

Sincerely,

Douglas L. Miller, PE  
Department of Environment and Natural Resources  
Ground Water Quality Program  
(605) 773 - 3296

REC'D

JAN 25 2005

Rapid City Growth  
Management Department



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Memorandum To: Rapid City City Council

From: Douglas L. Miller, PE  
Department of Environment and Natural Resources

Date: January 21, 2005

RE: Former Woody's Convenience Market (Corner C Store), 523 Crazy Horse, Rapid City, SD - DENR #2002.151

This memorandum is in response to a request to provide a brief summary of the status of petroleum release at the above referenced location.

The site is located in a generally commercial area of north central Rapid City. Based on available information it appears underground storage tanks (USTs) have been present at the site since 1976. Two 10,000 gallon USTs are associated with the facility. These USTs are over 25 years old and are closed. The site has been owned and operated by a number of different entities over the last 20 years.

In 1987 state regulations for USTs became effective. The site has been inspected at least twice by the Department of Environment and Natural Resources (department) to determine compliance with these regulations. Violations to the rules were found and subsequent actions were taken to bring the USTs into compliance. The department is working with the current property owner to get the USTs properly abandoned.

A preliminary site assessment was performed in 1989. This assessment, which included the installation of ground water monitoring wells, did not detect any releases from the tank system. Additional assessment was done in 1999 in preparation for tank abandonment activities. This assessment did find petroleum contamination above state standards was present in the soil and ground water.

When a petroleum release occurs the responsible party is directed to determine if a risk to human health or the environment is present. Assessment information showed the site is located over the Belle Fourche Shale which is generally composed of clay. This type of subsurface material is not consider an aquifer and does not allow for the rapid movement of ground water.

Other potential risk exposure pathways to human health were also evaluated. These included potential impacts to sewer and water lines, ingestion and inhalation of vapors. The sewer and water services were found not to be located in the general area of the contamination. It was also noted that the site is covered with asphalt. This covering would preclude the potential for ingestion of petroleum contaminants. It is the department's understanding that the site building is of slab on grade construction. Given this lack of subsurface structures and the levels of contamination measured, it appears unlikely an inhalation risk is present.

The complete extent of the contamination has not been defined. Additional work, including the installation of a downgradient monitoring well has been directed to determine if the contamination extends off the property.

While it is unlikely that risks to human health or the environment are present at this time, there is the potential that construction activities could encounter petroleum contaminated soils. If that occurs these soils would have to be removed and properly disposed at a permitted disposal site.

RSI-800-02-014

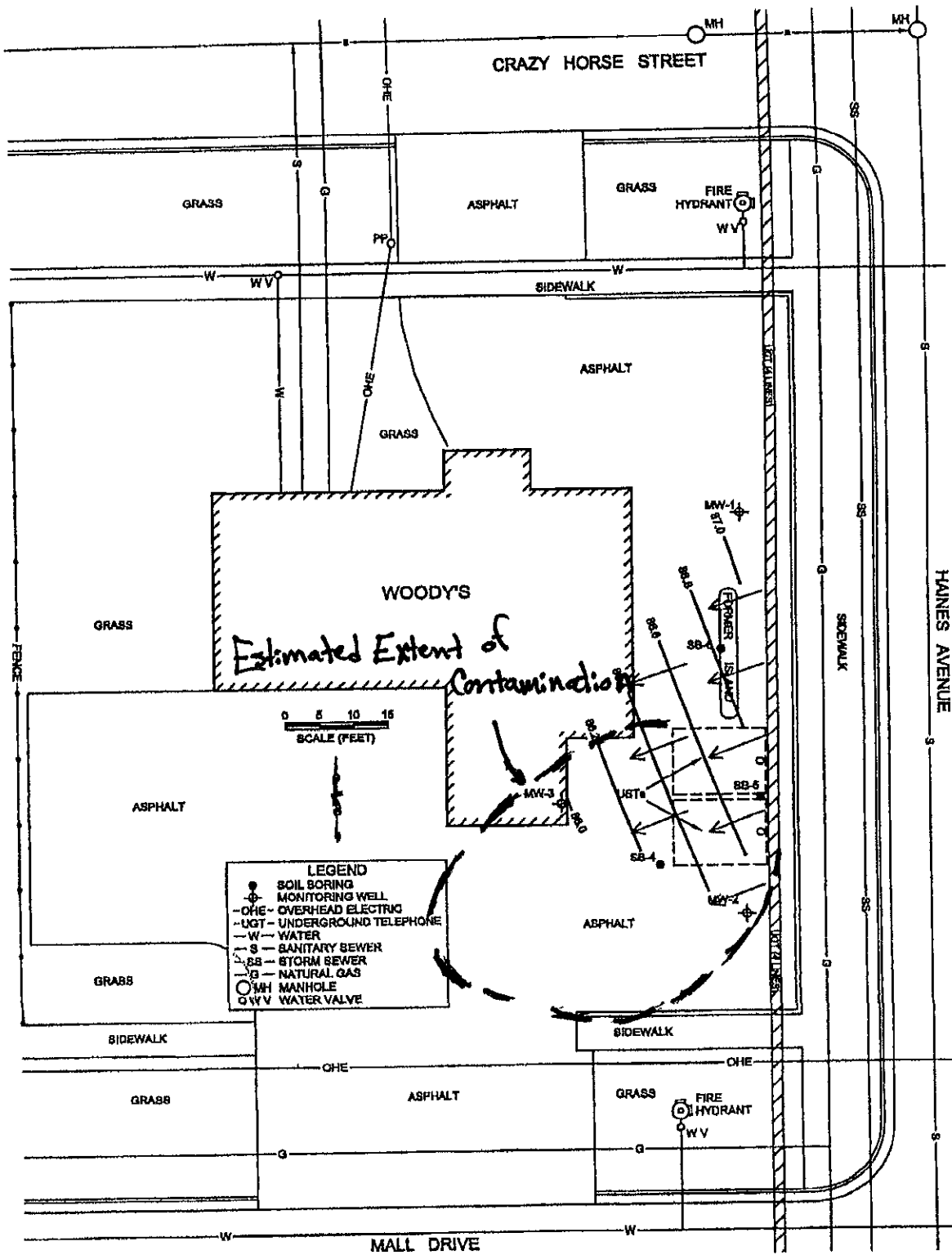


Figure 2. Site Map of Former Woody's Illustrating the April 30, 1999, Groundwater Contours and Direction of Flow.