

# HAZARD RANKING SYSTEM

DATA COLLECTION  
AND DOCUMENTATION  
TECHNIQUES FOR HRS SCORING C  
HAZARDOUS WASTE SITES

DECEMBER, 1988

Prepared by

Cooperation  
Operating Division

In Cooperation With

U.S. Environmental Protection Agency  
Investigations and Compliance  
Region IV

RECONNAISSANCE CHECKLIST FOR HRS2 CONCERNS

Instructions: Obtain as much "up front" information as possible prior to conducting fieldwork. Complete the form in as much detail as you can, providing attachments as necessary. Cite the source for all information obtained.

Site Name: Gulf State Creosote

City, County, State: Hattiesburg, Forrest, MS

EPA I.D. No.: MSD985967199

Person responsible for form: Michael T. Slack, Bureau of Pollution  
Control, Jackson, Mississippi 39289-0385

Date: March 8, 1990

Air Pathway

Describe any potential air emission source onsite: N/A

Identify any sensitive environments within 4 miles: N/A

Identify the maximally exposed individual (nearest residence or regularly occupied building workers do count): N/A

Groundwater Pathway

Identify any areas of karst terrain: N/A

Identify additional population due to consideration of wells completed in overlying aquifers to the AOC: The Hattiesburg Formation and the Catahoula Sandstone are the Aquifer Units of Concern. Together they are referred to as the Miocene Aquifer. The surficial unit, the Hattiesburg Formation, contains numerous private wells.

Do significant targets exist between 3 and 4 miles from the site? There are a number of private wells in the AOC between 3 and 4 miles from the site.

Is the AOC a sole source aquifer according to Safe Drinking Water Act: (i.e. as the site located in Dade, Broward, Volusia, Putnam, or Flager County, Florida)

No

#### Surface Water Pathway

Are there intakes located on the extended 15-miles migration pathway?

The migration pathway begins in Gordons Creek which runs adjacent to the site. Gordons Creek flows for approximately 4.5 stream miles before it enters the Leaf River. The extended migration pathway ends in the Leaf River approximately 10.5 stream miles southeast of the intersection of Gordons Creek and the Leaf River.

The Mississippi Bureau of Land and Water Resources, Jackson, Mississippi, indicates two (2) surface water intakes along the 15-mile migration pathway. One intake supplies water for domestic purposes. The intake is located in Gordons Creek approximately 2.25 stream miles from the site. The remaining intake is located along the Leaf River and is used for industrial purposes.

Are there recreational areas, sensitive environments, or human food chain targets (fisheries) along the extended pathway?

There are a number of residential areas, schools, and recreational areas along the extended pathway.

There is no indication on the topo maps of wetlands along the extended migration pathway.

There are no critical habitats of federal endangered species or national wildlife refuges along the extended pathway. Other sensitive environments listed in Table 2-18 of the Proposed Revised HRS Manual but not shown on the topo maps were not addressed.

#### Onsite Exposure Pathway

Is there waste or contaminated soil onsite at 2 feet below land surface or higher? Yes

Is the site accessible to non-employees (workers do not count)? Yes

Are there residences, schools, or daycare centers onsite or in close proximity? Yes

Are there barriers to travel (e.g., a river) within one mile? Yes. Gordons Creek, which flows through the site, in a north northeasterly direction is a barrier to travel.