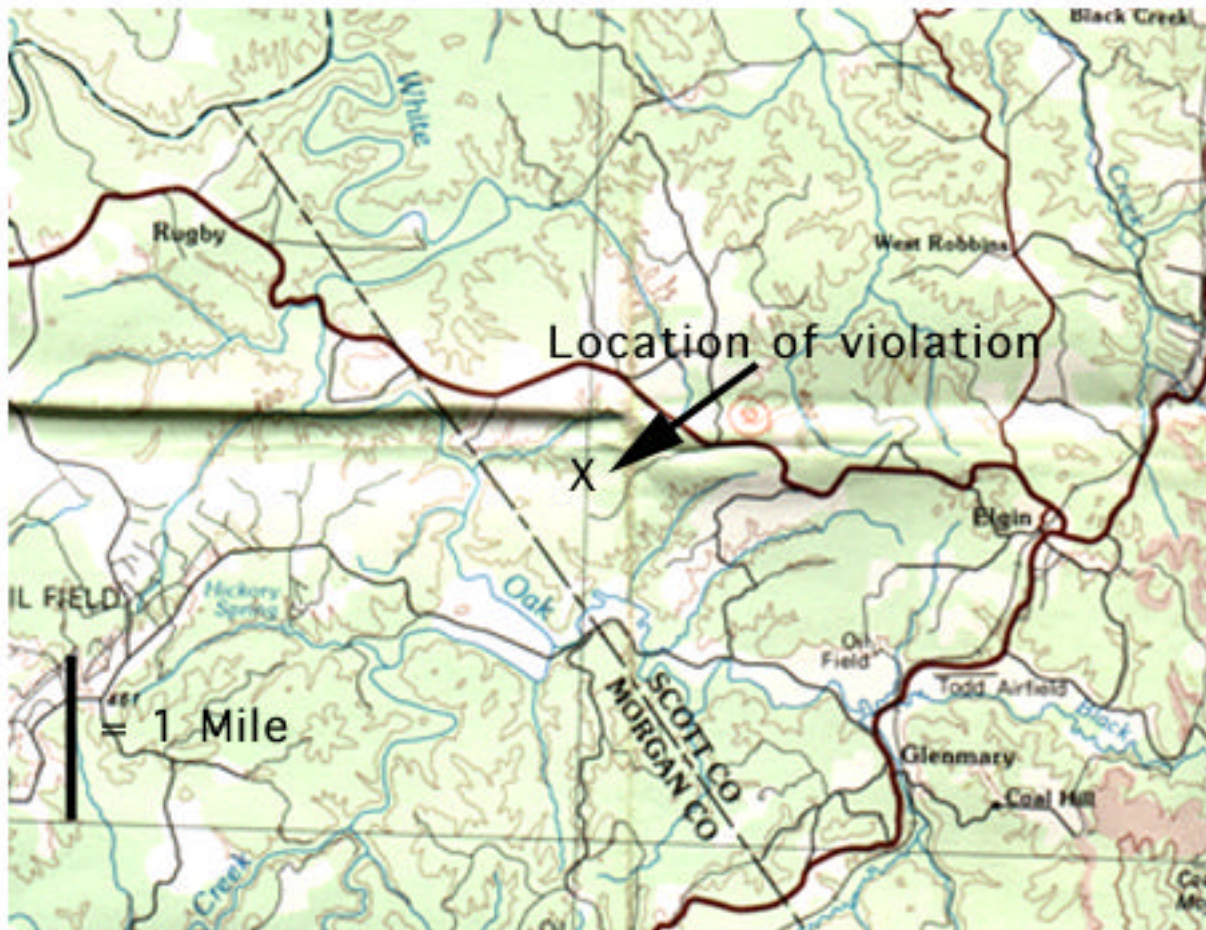


## TENNESSEE FORESTWATCH WATER QUALITY AND BEST MANAGEMENT PRACTICES REPORT

**Date of inspection:** February 1, 2001

**Location:** South of Hwy. 52 between Elgin and Rugby, Tennessee. From Elgin travel 2.8 miles on Hwy. 52 (see fig. 1). Turn left on dirt road entering Bowwater property. Travel .9 miles to the long row of oil storage tanks and approximately .3 miles after the tanks, the road forks in 3 directions. Take the road to the right into the woods and go .4 miles to the location of the violation ( we recorded lat. 36 20.008, long. 84 39.436 but are not positive about the accuracy of these coordinates).



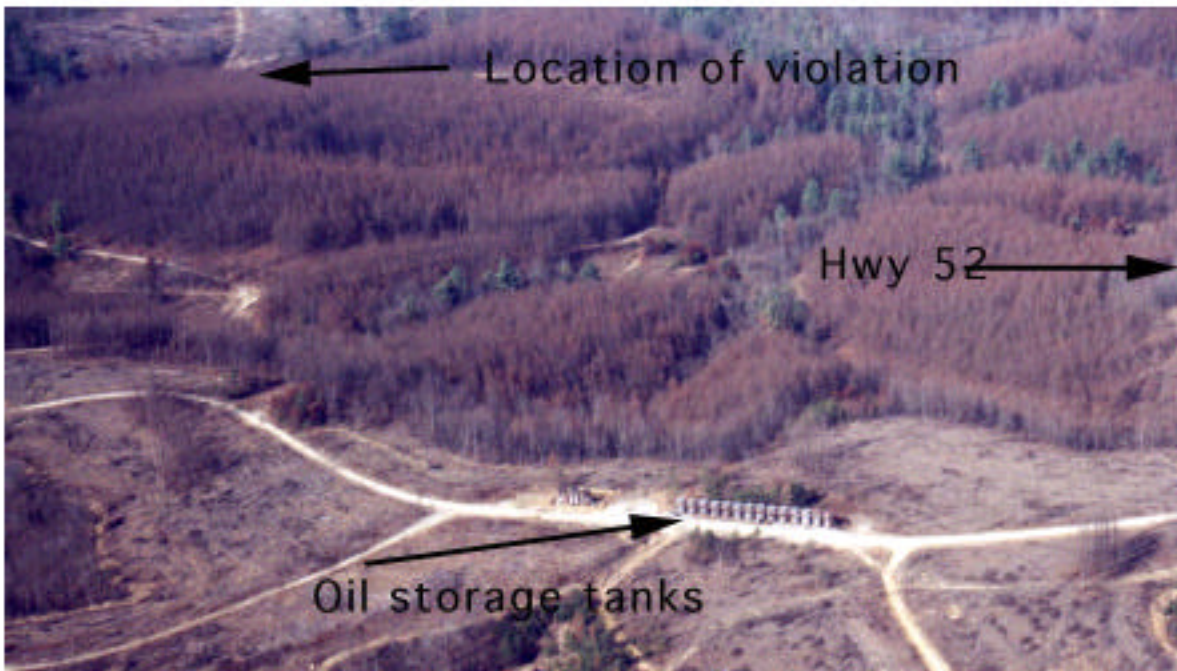
**Figure 1.** Location of the violation is in Scott County approximately 3 miles west of Elgin and south of Highway 52. The impacted stream may be a tributary of White Oak Creek. The map shown is a detail of the 1979 TVA 1:100,000 scale topographic map of the Oak Ridge quadrangle.

**Landowner:** Bowwater

**Logger:** Unknown

**Inspectors:** Doug Murray and Cielo Sand

**Size of cut:** The violation is in a SMZ within a complex of cuts totaling hundreds to thousands of acres.



**Figure 2.** Location of the violation relative to Highway 52 and a row of 17 oil storage tanks just south of Highway 52. The impacted stream is just below a clearcut area shown at the upper left of this photograph.

**Management method:** Pine plantations harvested to control the Pine Beetle

**Description of topography:** Flat to 20 % grade

**Streams on site:** White Oak Creek and tributaries

## SUMMARY OF INSPECTION

The damage to this stream appears to be the result of the intrusion of a skidder or dozer into the SMZ below several large clearcuts. The equipment appears to have run into and within a few feet of the stream causing damage to the stream banks, diverting the stream, and creating conditions that allow sediment to enter the stream. In addition, the stream channel has been completely obliterated at the road crossing and the water is running diffusely across the road where it crosses the stream.

## VIOLATIONS

BMPs recommend that roads and skidder trails be constructed above and away from streams. This skidder trail was constructed below and in the impacted stream causing the stream to enter the skidder trail and wash sediment into the waters of the state. Due to this non-compliance with the state's BMPs, the stream banks have been destroyed, the stream has been diverted from its original channel, and the stream is now flowing down the skidder trail onto the road that crosses the stream. The vegetation and soil displaced by the heavy equipment is now in the stream causing stream diversion and pollution. It is a violation to divert a stream, and it is a violation to cause pollution by placing debris in the stream. Further, we contend that the erosion caused by the diverted water flowing on the skidder trail and reentering the stream constitutes point source pollution and therefore is not exempt from the forestry exemption from pollution of the state's waters.



Woody debris and soil has been left in the stream where the stream crosses the logging road (figure 4). This debris and soil has caused pollution of the state's waters. The entire reach of the stream from the skidder trail to the logging road showed obvious evidence of pollution from siltation.

**Figure 3.** Skidder trail located next to stream and now draining the stream and diverting the stream flow. Debris at left is in the original stream channel.



**Figure 4.** Debris in diverted stream where the stream crosses the logging road. This area shows obvious evidence of pollution caused by the placement and construction of the skidder trail shown in figure 3.



**STREAMSIDE MANAGEMENT ZONE (SMZ)**

		water quality		
	yes	no	current problem	potential problem
1) Evidence of equipment in SMZ	X		X	
2) More than 50% of overstory removed	X		X	
3) SMZ less than 50 feet	X		X	
4) Logging debris in stream	X		X	
<b>TOTAL</b>	<b>4</b>		<b>4</b>	

Comments \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**LOG LANDINGS**

	yes	no	current problem	potential problem
1) Log landing located above stream				
2) Log landing not reseeded				
3) Log landing in SMZ				
<b>TOTAL</b>				

Comments: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



## OTHER VIOLATIONS

	<b>yes</b>	<b>no</b>
1) Streams diverted	X	
2) Streams dammed	X	
3) Streams ruined by change to hydrology		
<b>TOTAL</b>	<b>2</b>	

## SUMMARY

**NUMBER OF BMP VIOLATIONS (YES'S) 11**  
**NUMBER OF CURRENT WATER QUALITY PROBLEMS 7**  
**NUMBER OF POTENTIAL WATER QUALITY PROBLEMS 2**