Asbestos Minerals Sites – Initial Screening

Conducted by North Carolina Division of Waste Management,
in cooperation with US EPA Region IV and North Carolina
Division of Public Health, Health Hazards Control Unit

A. SITE INFORMATION Site Number: NC-3				
Historical Name	**Asbestos Mine**			
Latitude / Longitude	**-83.0105W 35.1181N**			
State, County, nearest City/Town	**North Carolina, Jackson County, Cashiers**			
Site Type	__**x**___ Mine	_____ Prospect	_____ Occurrence	
Mineral reported	_____ chrysotile	_____ crocidolite	_____ tremolite	_____ Other (name) _____
	_____ amosite	__**x**__ anthophyllite	_____ actinolite	

B. INFORMATION SOURCES (include publication date)	Conrad, and others (1963, p. 32-34). Pratt and Lewis (1905, p.44) USGS 7.5' Topo Map: Cashiers (7/1/88). USGS Orthophotoquad for Cashiers Quad (3/25/95). Land map from Jackson County land GIS site (Nov. 2005) http://ims.metrostat.net/website/JCGIS/viewer.htm . Jackson Co. NCDOT road map (2005) http://www.ncdot.org/it/gis/DataDist/GISCountyMap_TIFs.html.

C. SITE AND AREA RECONNAISANCE	Date of Site Reconnaisance **11/9/05**
1. Was the site located and a site visit completed?	__**x**__ Yes _____ No, site could not be located (Please attach a topographic map print showing the site)
2. Is the site property developed and in use of any kind?	__**x**__ Yes _____ No, site is wooded / undeveloped
3. Land use on site (check all that apply)	__**x**__ Residential _____ Commercial _____ Industrial _____ Recreational (golf course, park, etc.) _____ Construction or clearing in progress _____ Other (please describe below)
4. Are there large areas of bare soil visible on the property?	_____ Yes (Please describe below) __**x**___ No
5. Are there residences, apartments, stores or businesses, or day care facilities on the site, or within 200 feet of it?	__**x**___ Yes _____ No Please note which, and describe the item and its location (relative to the site) below.
6. Where is the nearest residence, place of business, or place frequented by local residents located, in relation to the site?	__**x**___ N/A (addressed at 5 above) _____ (Place and distance/direction to site)

7. Are any physical barriers present (fences, gates) that prevent access?	_____ Yes ___**x**__ No Description

D. ADDITIONAL INFORMATION
(Indicate by letter and number which topic the information supports)

A. Anthophyllite was identified in samples taken from float boulders of ultramafic rocks along the road within the Holly Forest residential development. Initial PLM analysis was performed by Ronald D. McDaniel. Confirmation analysis by PLM was performed by Stephen H. Westbrook, Asbestos Analysis and Information Service, Inc., a NVLAP accredited laboratory.

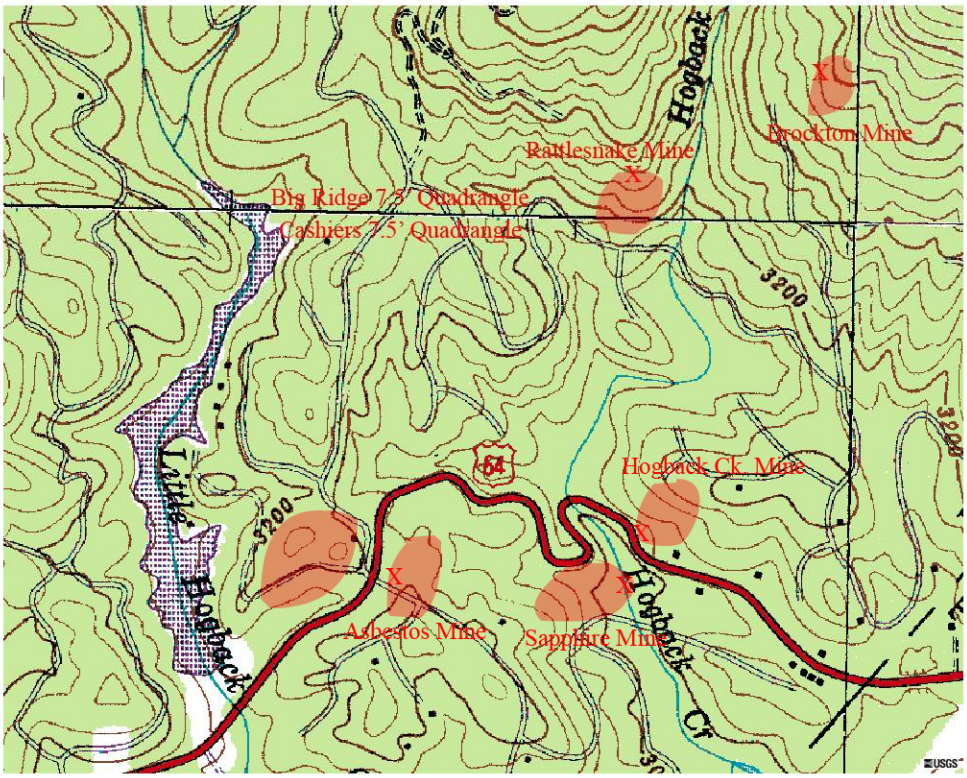
C3. The site is included within a very large resort development, Fairfield Sapphire Valley. There are at least three homes in the immediate vicinity of the mine and the anthophyllite-bearing ultramafic body. Conrad and Others (1963) states that at the time of their visit around 1962 the mine workings had been covered and the area restored but waste material from the mining operation was spread over a wide area. They described the ultramafic rock here as containing "significant amounts of anthophyllite".

C4. There are no large areas of bare soil but new home construction is underway within this area of the development. There are at least two ultramafic bodies with a history of mining within this neighborhood (Asbestos mine and Sapphire mine) and there is great likelihood that grading for new construction will encounter asbestos-bearing rocks and saprolite. Some weathered rocks along the road are reduced to mostly clay but anthophyllite fibers resist the weathering process and bristle from the lumps of clay.

Directions to Mine:

This mine is located on the south side of U.S. Highway 64, 1.0 mile west of the Jackson-Transylvania County line. The mine is within 150 feet of the highway and can be reached by turning south onto Narrows Drive within the Holly Forest III development and then left on Juniper Court. Float of the anthophyllite-bearing ultramafic rock can be found scattered along the east side of this road within 200 feet of the intersection with Narrows Drive.

Asbestos Mines of the Sapphire Valley Area

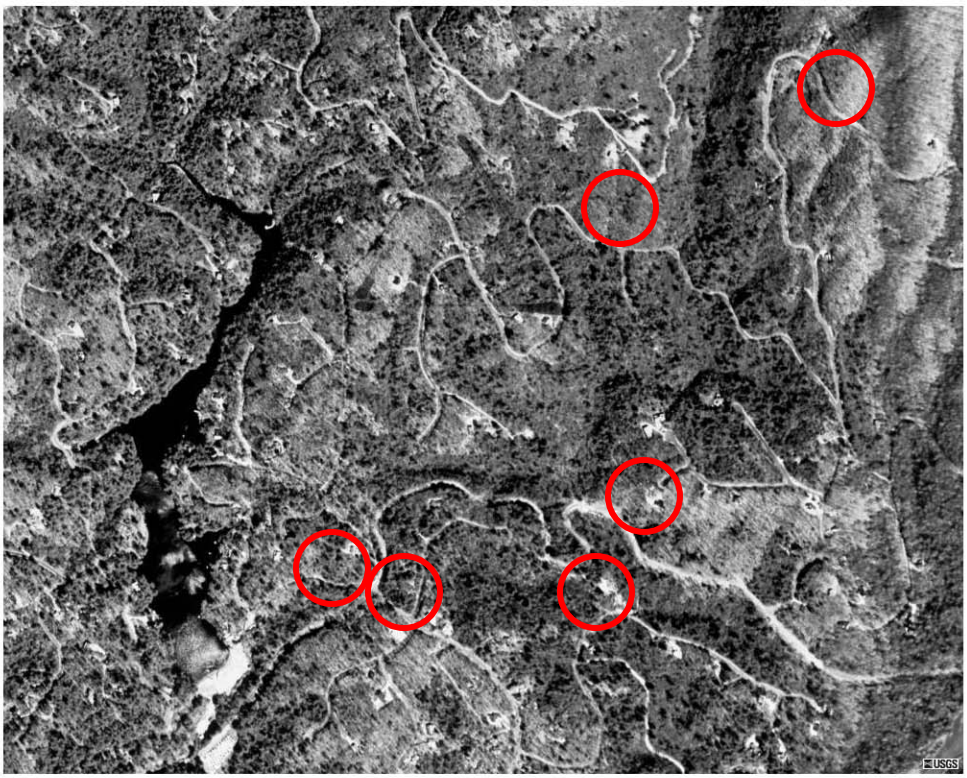


USGS Topographic Map 7-1-88

Approximate Location of Ultramafic Rocks
(From Conrad,1963, p.33)

2000 FEET
Scale

N

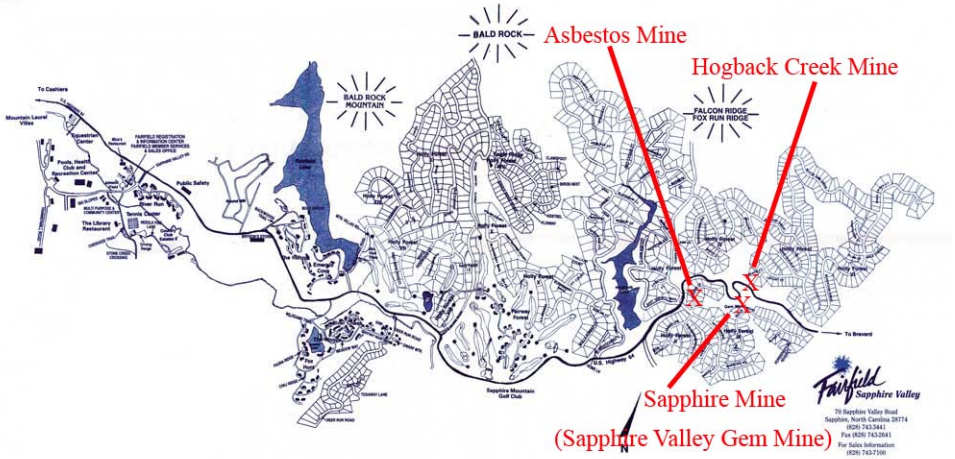


USGS Orthophoto 3-25-95

Road near Asbestos mine. Boulders on right side of road contain anthophyllite.

Fresh rock from roadside in Asbestos mine area contains anthophyllite.

Anthophyllite bundles (white masses) resist weathering even in very weathered rock.



Asbestos Mine