

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-15				
Historical Name	Day Book dunite deposit			
Latitude / Longitude	35.96686N -82.28392W			
State, County, nearest City/Town	North Carolina, Jackson County, Sapphire			
Site Type	<input checked="" type="checkbox"/> Mine	<input type="checkbox"/> Prospect	<input type="checkbox"/> Occurrence	
Mineral reported	<input type="checkbox"/> chrysotile	<input type="checkbox"/> crocidolite	<input type="checkbox"/> tremolite	<input type="checkbox"/> Other (name)
	<input type="checkbox"/> amosite	<input checked="" type="checkbox"/> anthophyllite	<input type="checkbox"/> actinolite	_____

B. INFORMATION SOURCES (include publication date)	Kulp and Brobst (1954). Hunter (1941, p. 48-53). Phyfer (1966). Murdock and Hunter (1946, p. 39). USGS 7.5' Topo Map: Burnsville (7/1/84). USGS Orthophotoquad for Burnsville (4-5-99). USGS color IR photo (1998). Yancey Co. NCDOT road map (2005). http://www.ncdot.org/it/gis/DataDist/GISCountyMap_TIFs.html .
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C. SITE AND AREA RECONNAISSANCE		Date of Site Reconnaissance	<u>11/1/05</u>
1. Was the site located and a site visit completed?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No, site is wooded / undeveloped		
3. Land use on site (check all that apply)	<input checked="" type="checkbox"/> Residential <input type="checkbox"/> Commercial <input checked="" type="checkbox"/> Industrial <input type="checkbox"/> Recreational (golf course, park, etc.) <input type="checkbox"/> Construction or clearing in progress <input checked="" type="checkbox"/> Other (please describe below)		
4. Are there large areas of bare soil visible on the property?	<input checked="" type="checkbox"/> Yes (Please describe below) <input type="checkbox"/> No		
5. Are there residences, apartments, stores or businesses, or day care facilities on the site, or within 200 feet of it?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?	<input checked="" type="checkbox"/> N/A (addressed at 5 above) _____ (Place and distance/direction to site)		

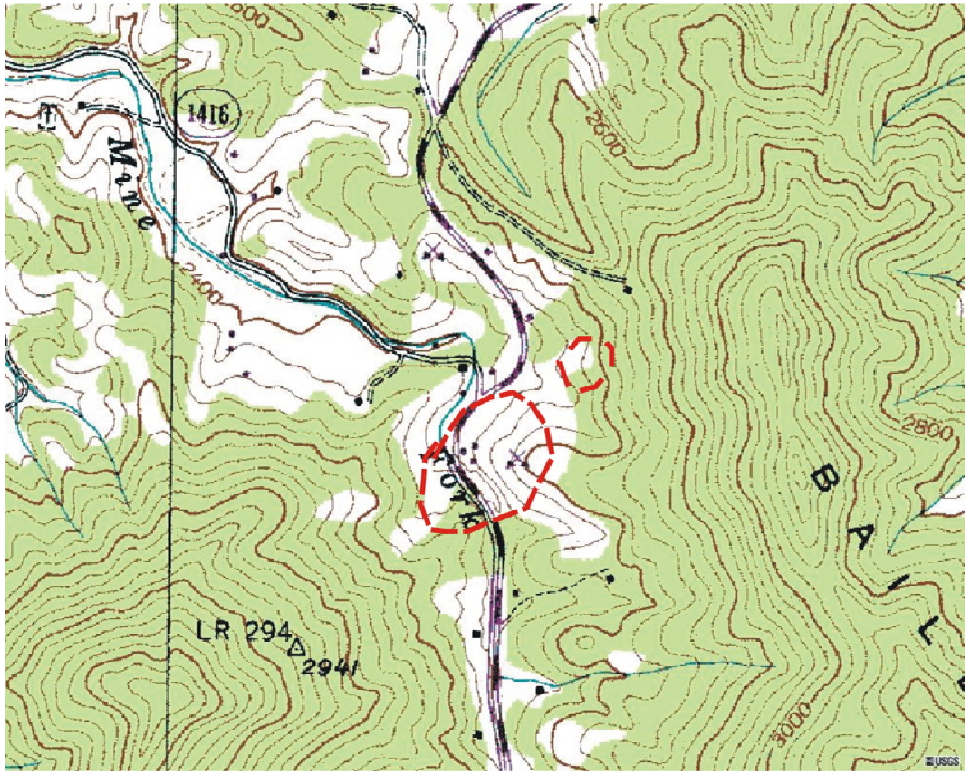
7. Are any physical barriers present (fences, gates) that prevent access?	<input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No Description Some areas are gated. Others are not.
D. ADDITIONAL INFORMATION (Indicate by letter and number which topic the information supports)	
<p>A. Anthophyllite was identified in samples taken from an ungated dirt road directly across from the voluntary fire department to the north of the currently active olivine mine. 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.</p> <p>C3. The site contains an active olivine mine as well as several residences and a voluntary fire department station. A public highway (NC Hwy. 197) forms the western and northern borders of the open pit mining operation. An olivine processing plant is located on the west side of the pit within a few feet of the above-mentioned road.</p> <p>C4. Some large areas of bare soil and mine waste are present in the vicinity of the mining operation. Several homes are located close to these areas. One home is located at the base of a very large spoil pile.</p> <p>C5. See Item C3 above and the attached annotated infrared orthophoto below for details.</p>	

Directions to the Mine:

The Daybook mine is located on NC 197, 3.5 miles north of the intersection of NC 197 and U.S. 19E. The mine is 1.2 miles southeast of Day Book at the intersection of SR 1416 and NC 197.

Daybook Olivine Mine

Yancey County, North Carolina

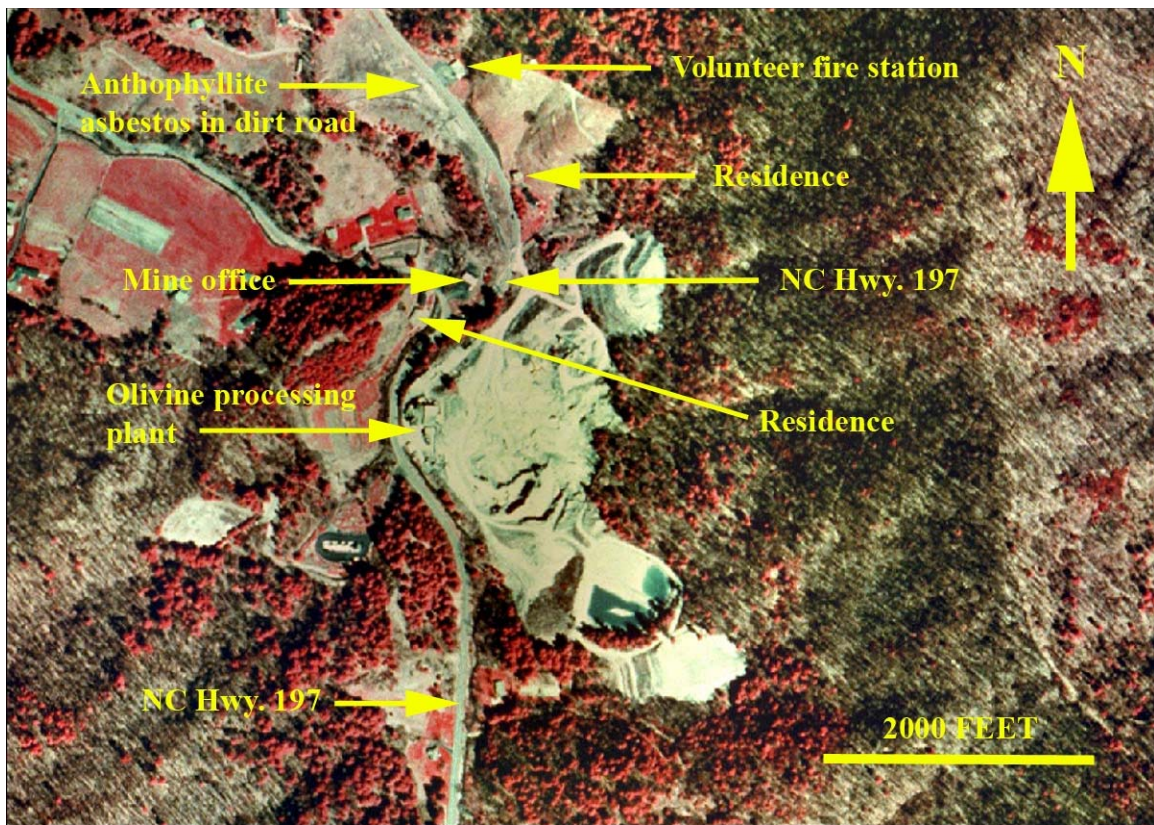


USGS Topographic Map 7-1-84 (Burnsville 7.5' Quadrangle)

 Approximate Location of Ultramafic Rocks



USGS Orthophoto 4-5-99 (Burnsville 7.5' Quadrangle)



Color IR Orthophoto of the Day Book mine area.



View looking south from hill north of Day Book mine on NC Hwy. 197.



View from front of fire station.



Spoil piles loom high over residence on NC Hwy. 197 north of Day Book mine.



The hill north of the mine office was once the site of a pit or quarry (1984 Burnsville 7.5' Topo).



South side of olivine processing plant. Open pit is in background.



NC Hwy. 197

North side of olivine processing plant.



Anthophyllite from the road across from the fire station.



Another anthophyllite sample taken from the road across from the fire station.