

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-16			
Historical Name	Deposit Number Nine (Higdon Mine)		
Latitude / Longitude	35.190N -83.277W		
State, County, nearest City/Town	North Carolina, Macon, Franklin		
Site Type	<input checked="" type="checkbox"/> Mine	<input type="checkbox"/> Prospect	<input type="checkbox"/> Occurrence
Mineral reported	<input checked="" type="checkbox"/> chrysotile	<input type="checkbox"/> crocidolite	<input type="checkbox"/> tremolite
	<input type="checkbox"/> amosite	<input checked="" type="checkbox"/> anthophyllite	<input type="checkbox"/> actinolite
	<input type="checkbox"/> Other (name) _____		

B. INFORMATION SOURCES (include publication date)	Pratt and Lewis (1905, p. 41-42). Hunter (1941, p. 100-102). Hunter and others (1942, p. 16)). Murdock and Hunter (1946, p. 28-31). USGS 7.5' Topo Maps: Corbin Knob(7/1/87). USGS Orthophotoquad for Corbin Knob (4-3-95). USGS color IR photo (1998). Macon 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>11/9/05</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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No, site is wooded / undeveloped		
3. Land use on site (check all that apply)	<input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input 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 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)		

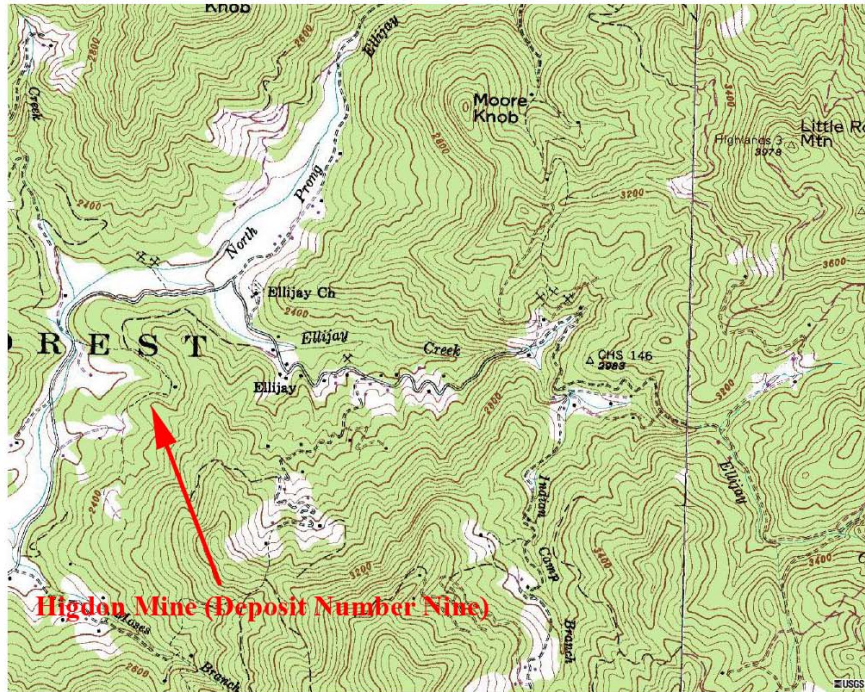
7. Are any physical barriers present (fences, gates) that prevent access?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No Description
D. ADDITIONAL INFORMATION (Indicate by letter and number which topic the information supports)	
<p>A. The same ultramafic body hosts both the Higdon mine and the Deposit Number Nine. The same body also hosted the Maguire vermiculite mine (Murdock and Hunter, 1946). Van Gosen (2005) reports anthophyllite asbestos at the Higdon mine and chrysotile at the Deposit Number Nine. Hunter (1941) reports chrysotile at the Deposit Number Nine and Conrad and others (1963) report “asbestos” at the Higdon mine.</p> <p>C1- C6. The mine is located near the community of Ellijay. Numerous ultramafic bodies occur in this area. Primary land use is low density residential. Reconnaissance of the area via public roads was conducted but no deposits were visited in the area as they are all on private property and not accessible from the road without trespassing. Proximity of residences to the asbestos bearing ultramafic bodies is unknown but the probability is high that some homes are within 200 feet of the bodies. The Higdon mine has likely been the site of relatively recent mining activity as an open pit mine is prominent on the 1995 air photo yet does not appear on the 1987 topographic map. A large area of bare soil is present in the mine area. No prominent roads leading into the mine area were observed.</p>	

Directions to Mine:

(From Conrad, 1963, p. 40)

The Deposit No. Nine (Higdon mine) is located about 1000 feet east of SR 1001 (Ellijay Creek Road), 4.0 miles northeast of the intersection of SR 1001 and U.S. Highway 64. This intersection is located 4.5 miles southeast of Franklin.

Higdon Mine (Deposit Number Nine) Macon County

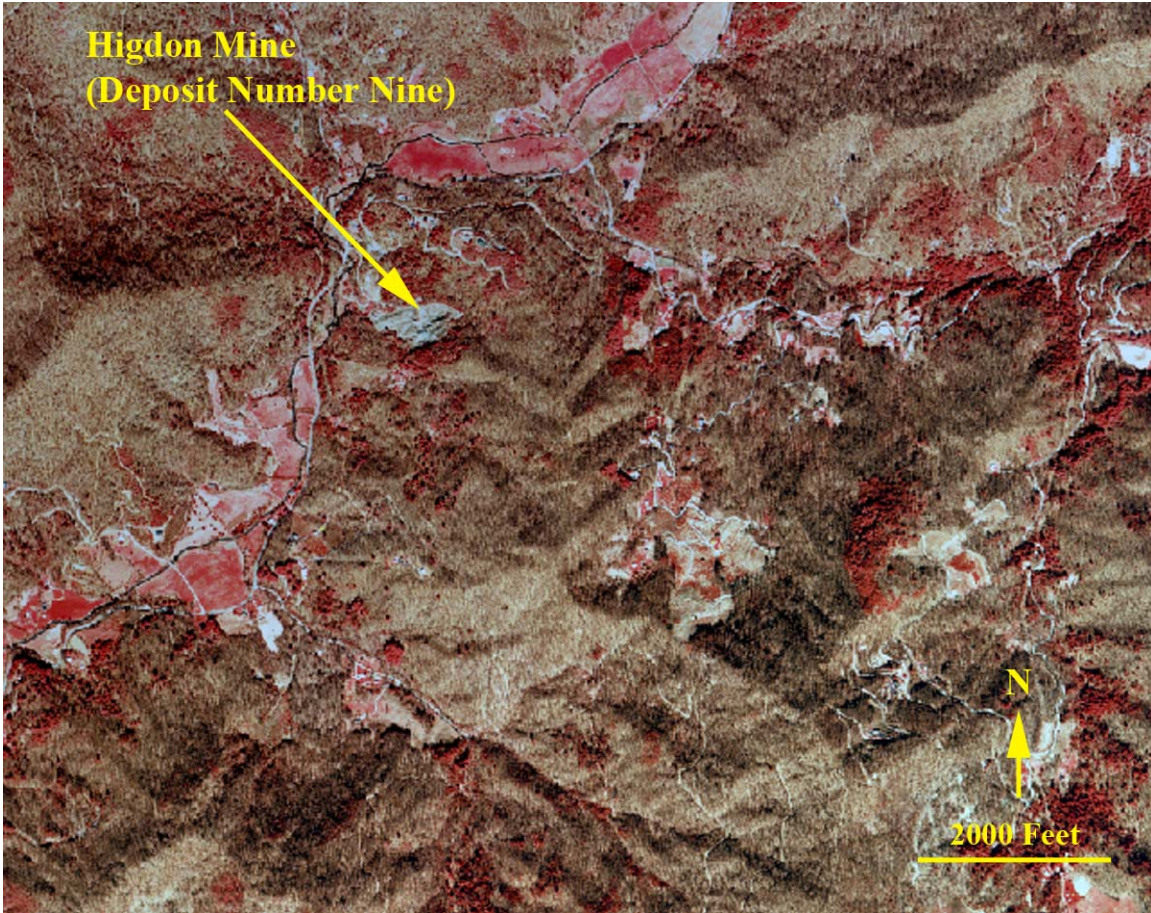


USGS Topographic Map: Corbin Knob 7.5' Quadrangle 7-1-87

2000 FEET
Scale

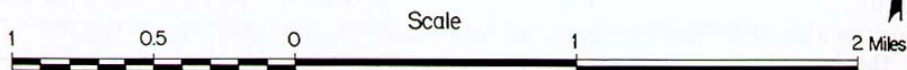
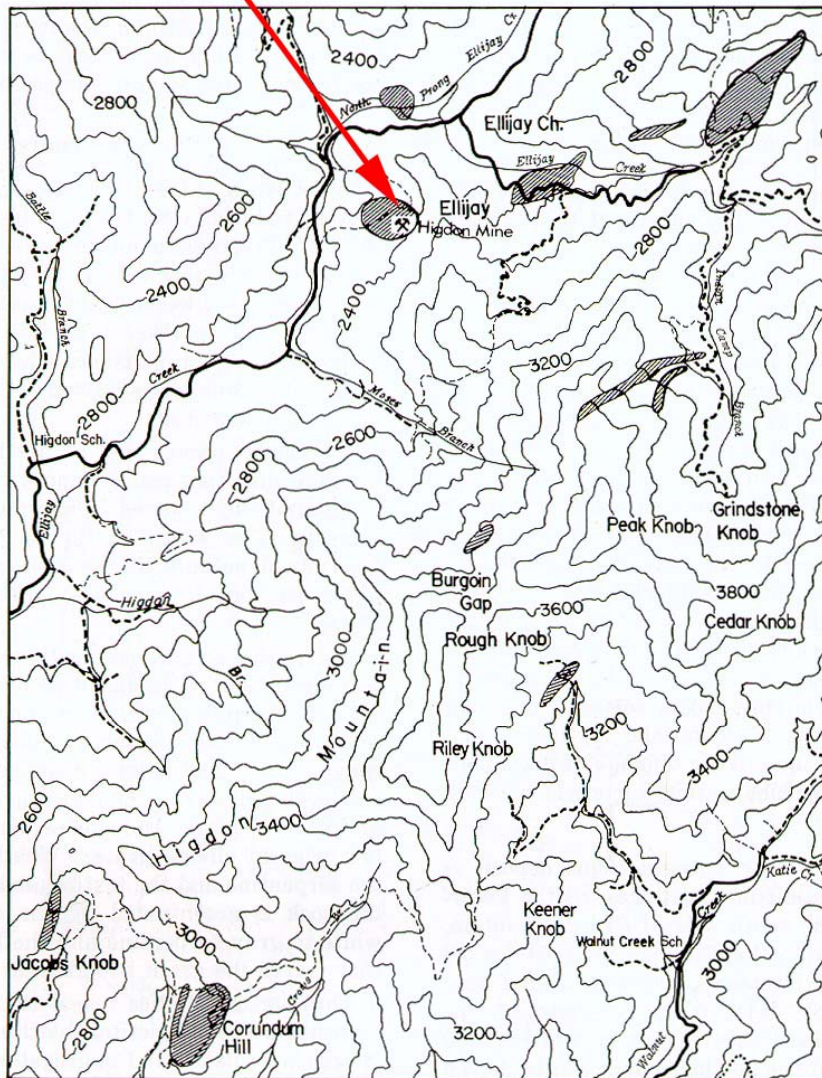


USGS Orthophotoquad: Corbin Knob 7.5' Quadrangle 4-3-95



Color IR orthophoto of the Higdon (Deposit Number Nine) area.

Higdon (Deposit #9)

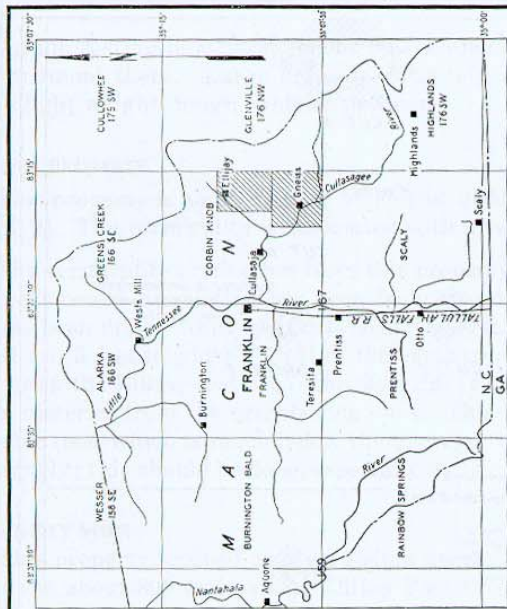


MAP SHOWING LOCATION OF PERIDOTITES IN ELLIJAY CREEK AREA, MACON CO.

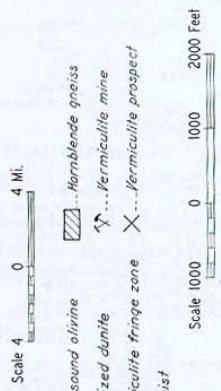


Figure 8. Map showing location of peridotites in Ellijay Creek area, Macon County.

From Conrad and others (1963)



INDEX MAP OF MACON COUNTY



- SYMBOLS:
- Relatively sound olivine
 - ▨ Serpentinized dunite
 - ▧ Talcly vermiculite fringe zone
 - ▩ Biotite schist
 - ▨ Hornblende gneiss
 - ↗ Vermiculite mine
 - × Vermiculite prospect

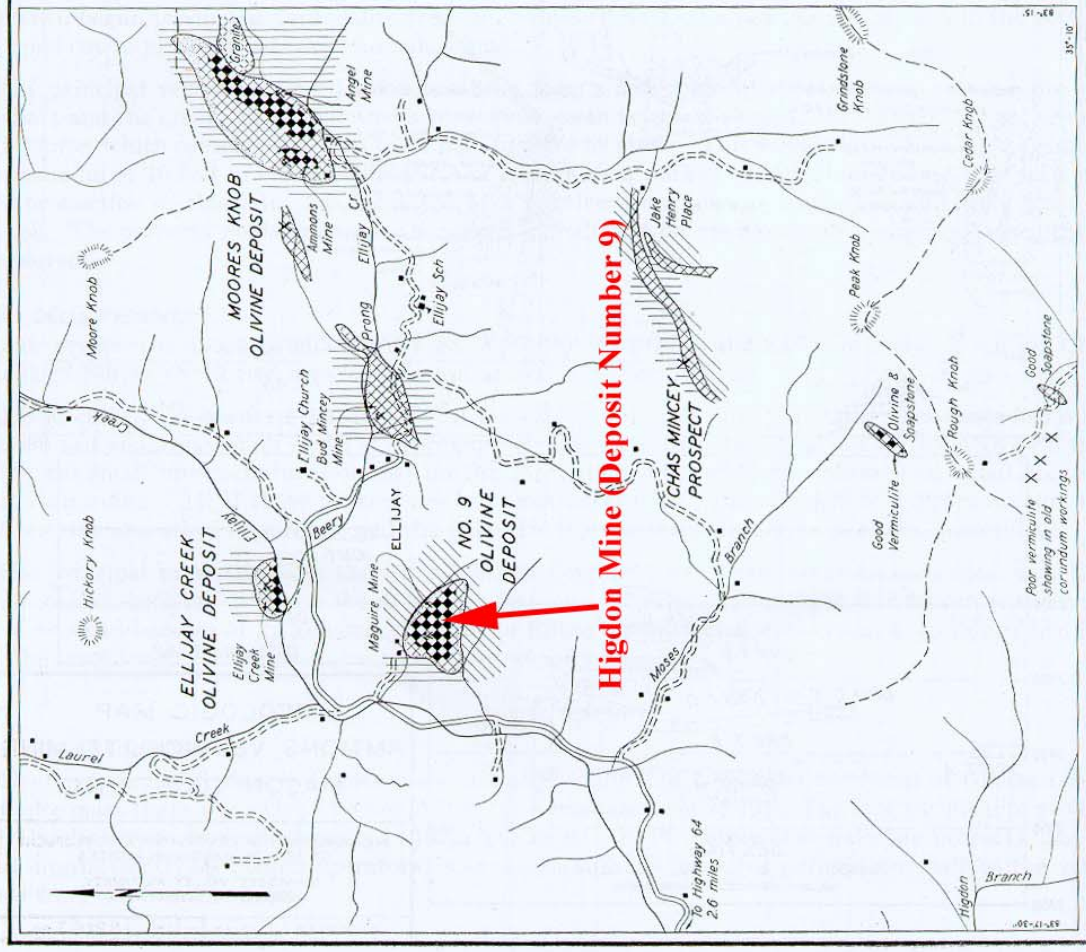
ELLIJAY DISTRICT, MACON COUNTY, N. C.

**VERMICULITE MINES,
PROSPECTS AND
OLIVINE DEPOSITS**

N. C. DEPT. OF CONSERVATION AND DEVELOPMENT
DIVISION OF MINERAL RESOURCES

TENNESSEE VALLEY AUTHORITY
COMMERCE DEPARTMENT

KNOXVILLE 4-16-42 W. CO. 1 82[G]17 RD



From Murdock and Hunter (1946)