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-1				
Historical Name	**Addie chromite prospect (Addie Olivine Mine)**			
Latitude / Longitude	**35.3992N -83.1593W**			
State, County, nearest City/Town	**North Carolina, Jackson County, Addie**			
Site Type	__**x**___ Mine	__**x**___ Prospect	_____ Occurrence	
Mineral reported	_____ chrysotile	_____ crocidolite	_____ tremolite	_____ Other (name) _____
	_____ amosite	__**x**__ anthophyllite	_____ actinolite	

B. INFORMATION SOURCES (include publication date)	Hunter and others (1942, p. 12-14). Hunter (1941, p. 80-87). Murdock and Hunter (1946, p. 22-23). Furman (1981, p. 68). USGS 7.5' Topo Map: Sylva North (7/1/87). USGS Orthophotoquad for Sylva North (4/12/93). 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 **11/8/05**
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 __**x**___ Commercial __**x**__ Industrial _____ Recreational (golf course, park, etc.) _____ Construction or clearing in progress ___**x**__ Other (please describe below)
4. Are there large areas of bare soil visible on the property?	___**x**__ Yes (Please describe below) _____ 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?	__**x**___ Yes ___**x**__ No Description **Some areas are gated. Others are not.**

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

A. The site was both a chromite prospect and an olivine mine. Anthophyllite was identified in four samples taken from outcrops and float along a 1.5 mile strike length of the ultramafic rock unit containing the chromite prospect and olivine mine. Initial PLM analysis was performed by Ronald D. McDaniel. Confirmation analysis by PLM was performed by Stephen H. Westbrook of Asbestos Analysis and Information Service, Inc., a NVLAP accredited laboratory.

C3. Reconnaissance was conducted on a 2-mile strike length of the asbestos-bearing ultramafic rocks in the Addie area. Numerous homes, several business and industrial sites, a county recycling center, a land fill, a medical facility, and two schools are located on or very near the ultramafic unit.

C4. Several areas of bare soil are located near the inactive quarry sites. Most reclaimed areas have been grassed. Dirt roads lead to or by both olivine quarries. A dirt road passing by the northernmost quarry and through leveled mine waste is used by local homeowners. Grading and leveling of at least one trailer site within asbestos bearing rocks is in progress.

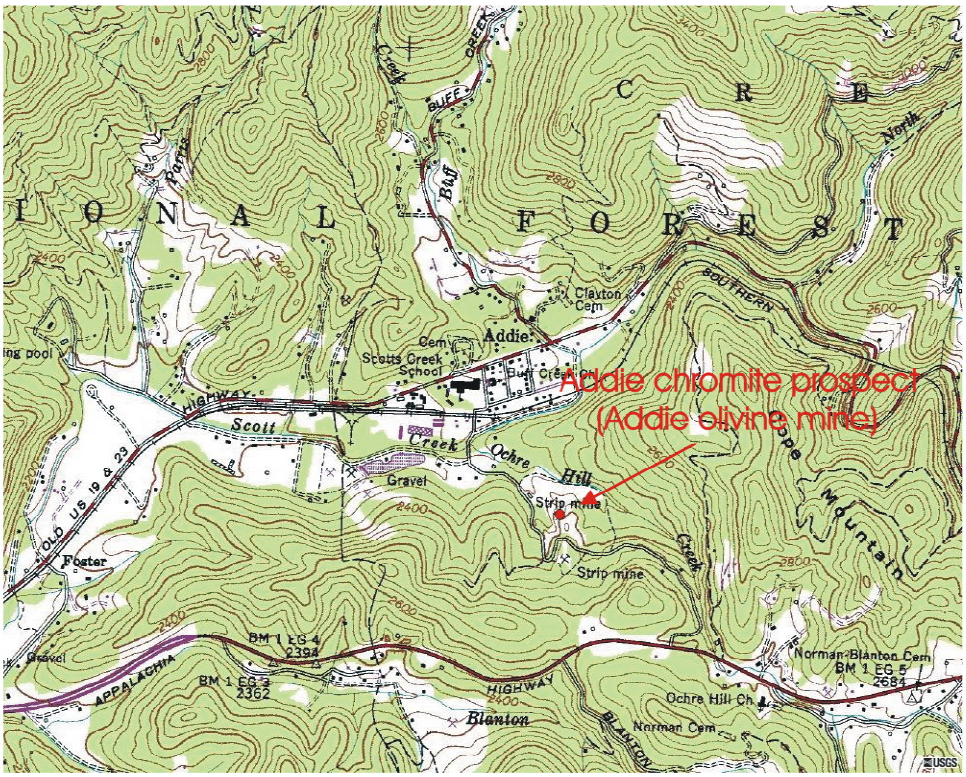
C5. See Item C3 above and the attached annotated infrared orthophoto below for details.

Directions to Mine:

The Addie chromite prospects and olivine mine are located on both sides of SR 1456 south of Addie. The first olivine quarry is visible on the east side SR 1456 about 0.3 mile south of the bridge over Scott's Creek. The second olivine quarry is on the west side of SR 1456 about 0.5 mile south of the bridge over Scotts Creek. The asbestos bearing ultramafic rock continues north and south of these pits as indicated on the attached maps.

Addie Chromite Prospect (Addie Olivine Mine)

Jackson County, North Carolina

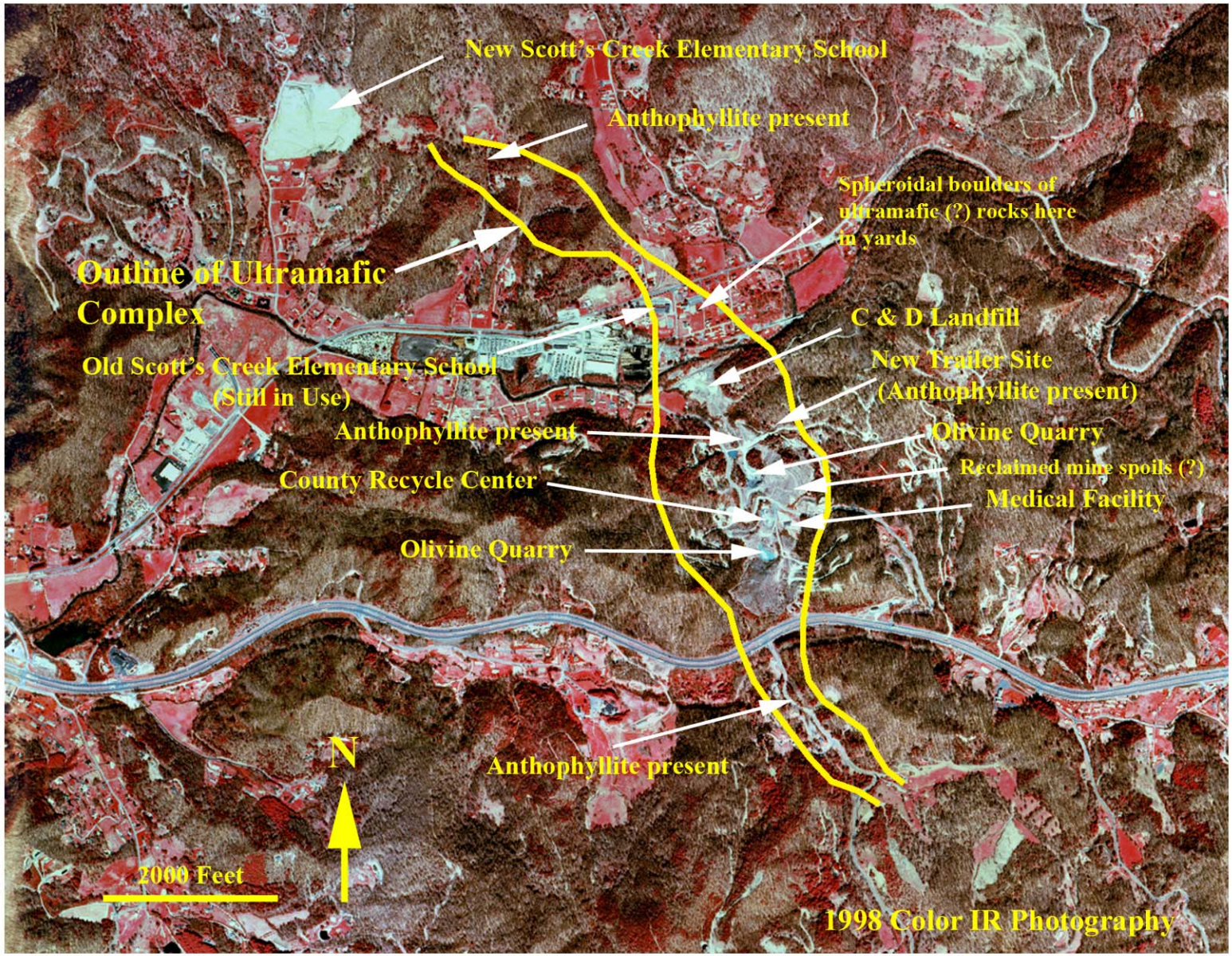


USGS Topographic Map 7-1-87 (Sylva North 7.5' Quadrangle)

2000 Feet

N

USGS Orthophoto 4-12-93 (Sylva North 7.5' Quadrangle)



Yellow lines outline the approximate boundaries of the Addie portion of the Addie-Webster ring dike, a complex ultramafic body extending from Addie to Webster, North Carolina. Outline is from Murdock and Hunter (1946, P. 23). Anthophyllite was detected in four samples collected along this trend.

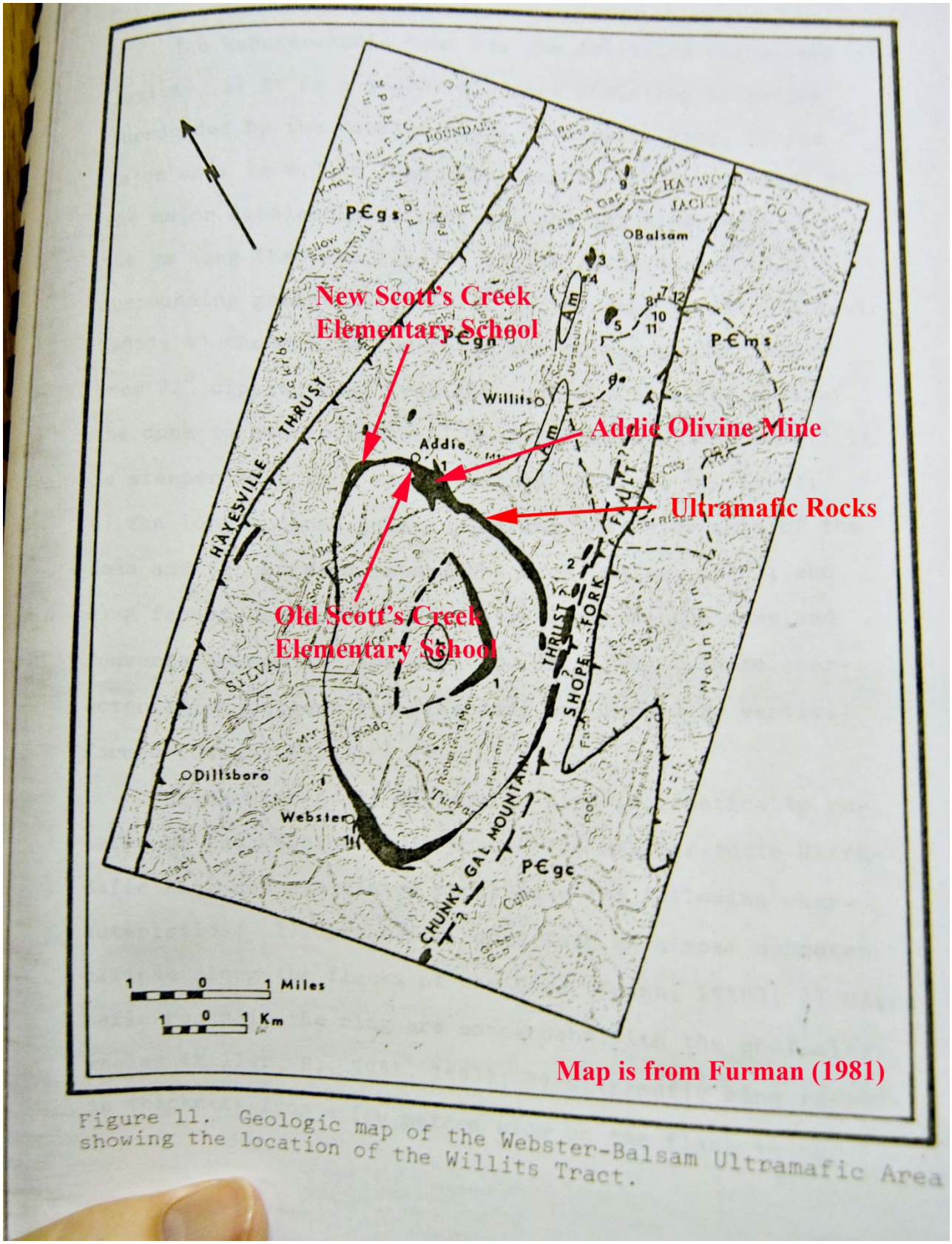
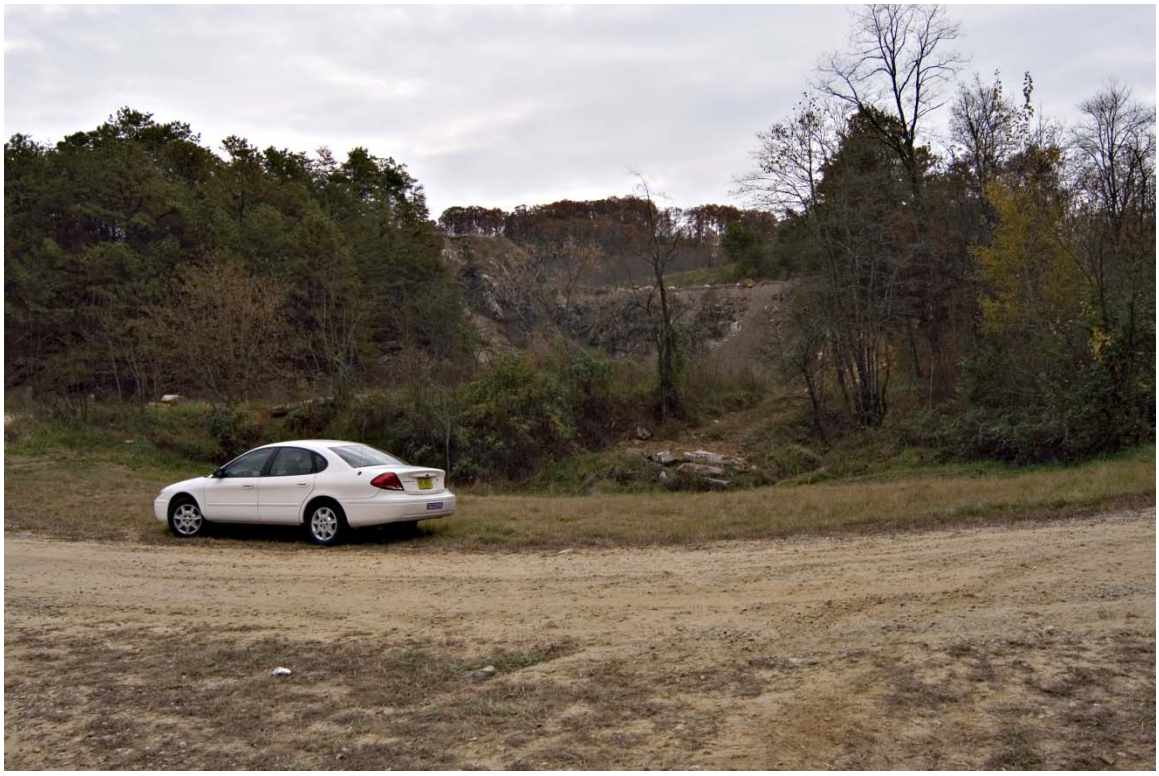


Figure 11. Geologic map of the Webster-Balsam Ultramafic Area showing the location of the Willits Tract.

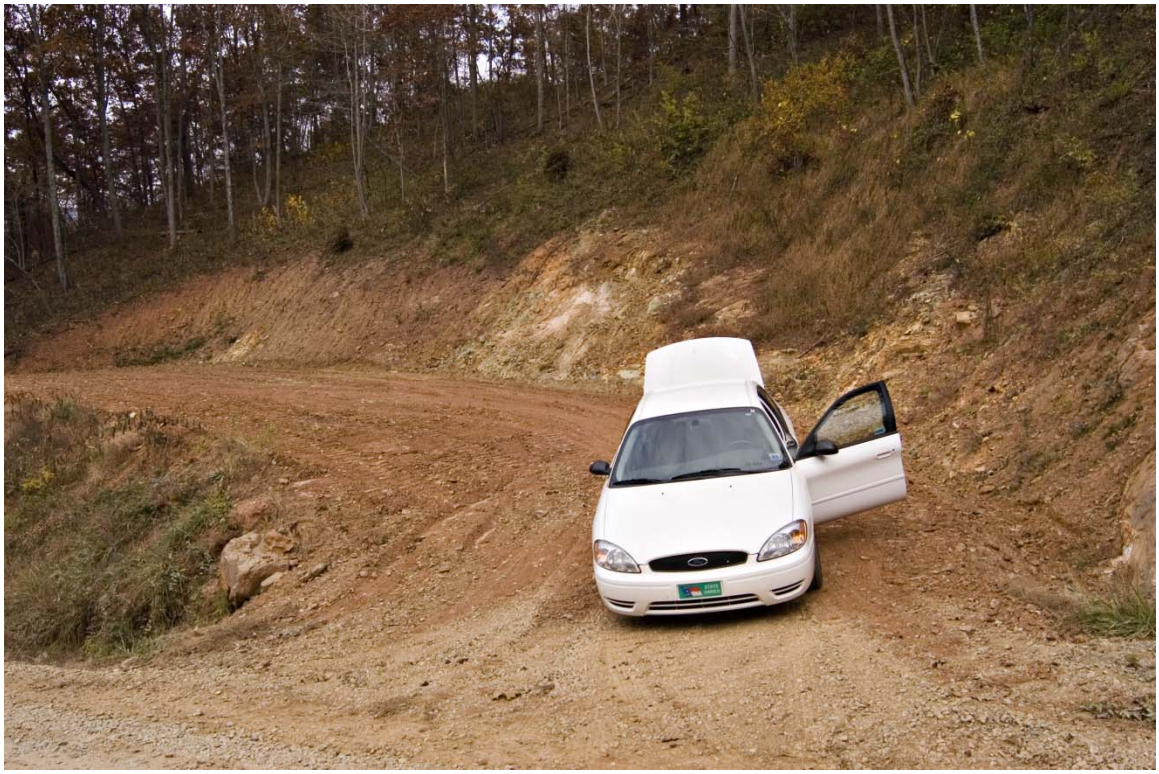
Two schools may lie on asbestos-bearing ultramafic rocks in the Addie Area.

View looking north toward Addie from the northernmost olivine quarry.

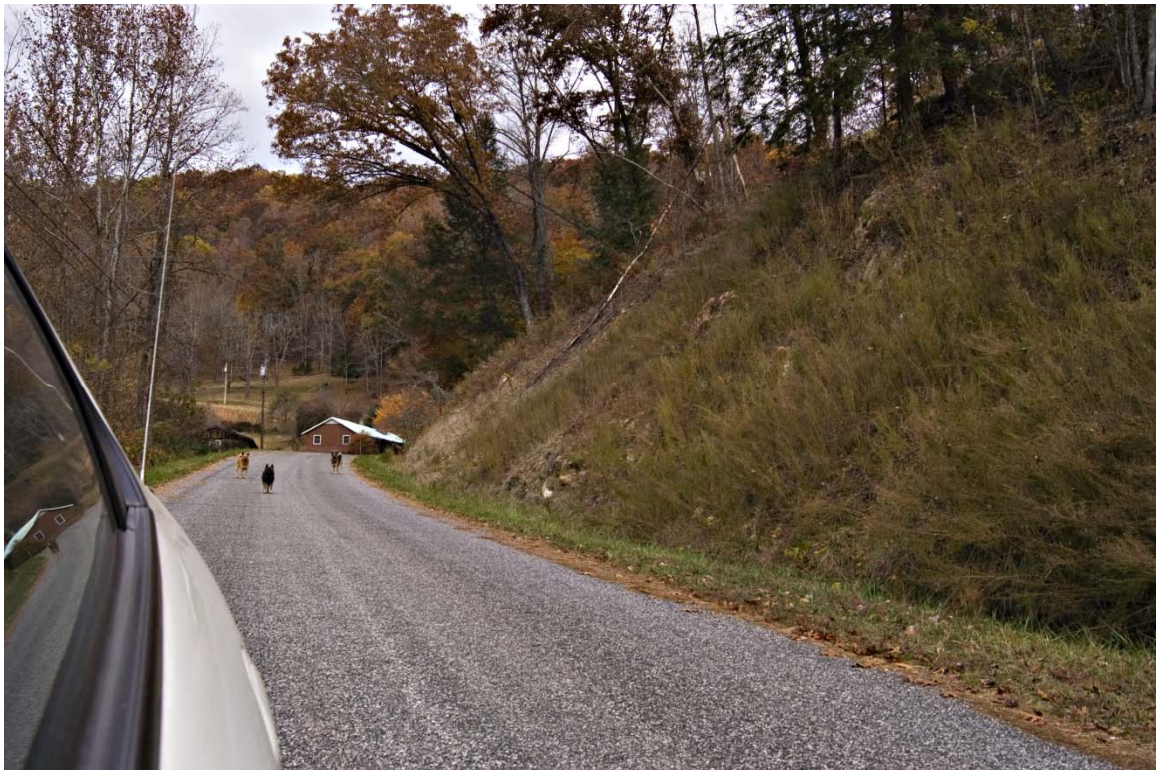


View of northernmost olivine quarry looking south.

View looking toward the north side of the southernmost olivine quarry.



Recent cut (trailer site?) in the hillside a few hundred feet northeast of the northernmost olivine quarry. Asbestiform anthophyllite was detected in samples from this cut.



Asbestiform anthophyllite was detected in samples from this roadcut on SR 1453. This outcrop is approximately 2000 feet east of the new Scott's Creek Elementary School.

Front view of Scott's Creek Elementary School.


View behind the new Scott's Creek Elementary School looking east toward athletic fields.