



EXPLANATION

Geologic Units

Quaternary

- af Artificial Fill
- Qna Alluvium
- Qc Colluvium
- Qlf Alluvial Fan
- Qh1 Holocene Clinch River Terraces
- Qh2 Pleistocene Clinch River Terraces
- Qd Undifferentiated Pleistocene Terraces

Lower Carboniferous

- Sr Rockwood Fm. - undivided, sandstone, siltstone and shale
- Os Sequatchie Fm. - undivided, limestone and shale
- Or Reedsville Shale - undivided, shale and siltstone with limestone interbeds

Middle Carboniferous

Chickamauga Supergroup

Nashville Group

- Ony Cannon Ls., Leipers and Catheys Fm. - undivided, limestone with shale interbeds
- Ocy Catheys and Leipers Fm. - undivided, limestone with shale interbeds
- Ocn Cannon Ls. - undivided, limestone
- Oh Hermitage Fm. - undivided, limestone

Chickamauga Group

- Och Chickamauga Group - undivided
- Omc Moccasin Fm. - undivided, siltstone with limestone interbeds
- Owi Witten Fm. - undivided, limestone with shale interbeds
- Ovw Bowen Fm. - undivided, siltstone with limestone interbeds
- Obe Benbolt Fm. - undivided, limestone with siltstone interbeds
- Ork Rockwell Fm. - undivided, limestone with siltstone interbeds
- Ofl Fleanor Shale mbr. of the Lincolnshire Fm. - undivided, shale and siltstone with limestone
- Obl Blackford Fm. (includes Eidsen mbr.) - undivided, limestone and siltstone

Stones River Group

- Osr Stones River Group - undivided
- Oca Carvers Ls. - undivided, limestone with shale interbeds
- Olb Lebanon Ls. - undivided, limestone
- Ord Ridley Ls. - undivided, limestone with chert
- Omp Pierce and Murrellboro Ls. - undivided, limestone with shale interbeds
- Ops Pond Spring Fm. - undivided, limestone with dolomite, shale and sandstone interbeds

Lower Carboniferous

Knox Group

- Oms Mascot Dolomite - undivided, dolomite with chert, limestone and sandstone interbeds
- Ok Kingsport Fm. - undivided, dolomite with chert, limestone and sandstone interbeds
- Olv Longview Dolomite - undivided, dolomite and chert
- Oc Chepultepec Dolomite - undivided, dolomite with chert, limestone and sandstone interbeds
- Ccr Copper Ridge Dolomite - undivided, dolomite with chert, limestone and sandstone interbeds

Upper Carboniferous

Conasauga Group

- Cc Conasauga Group - undivided
- Cmn Marynsville Ls. - undivided, limestone with dolomite and siltstone interbeds
- Cn Nolichucky Shale - undivided, shale with limestone interbeds
- Cdg Dismal Gap Fm. (Maryville Ls.) - undivided, shale and limestone with dolomite and siltstone interbeds
- Crg Rogersville Shale - undivided, shale with mudstone and siltstone interbeds
- Cl Friendship Fm. (Rutledge Ls.) - undivided, limestone, dolomite, siltstone and shale
- Cpv Pumpkin Valley Shale - undivided, shale with mudstone and siltstone interbeds

Lower Carboniferous

Rome Formation

- Cr Rome Fm. - undivided, sandstone, shale and siltstone with interbeds of dolomite

Geologic Structures

- Syncline - dashed where approximate
- Anticline - dashed where approximate
- Overtaken Syncline - dashed where approximate
- Thrust Fault - dashed where approximate, dotted where concealed
- Contact - dashed where approximate, dotted where concealed

Other

- Contour, 25 ft interval
- Cross section location (see Figure 2.5-135)

Source:

Jewell, J., 1996, Geologic map of the Lenoir City Quadrangle Draft Open File Report, TN, TDG 130-SE, 1:24,000.

Lemiszki, P., 2001, Geologic map of the Cave Creek Quadrangle Draft, TN, TDG 130-SW, 1:24,000.

Lemiszki, P.J., Hatcher, R.D., Kettelle, R.H., 2012, Preliminary Detailed Geologic Map of the Oak Ridge, TN Area, DRAFT 8-14-12 TDG S16A, 1:24,000.

Lemiszki, P., 2015, Geologic map of the Elverton Quadrangle Draft, TN, GM 130-NW, 1:24,000.

Merick Company, 2013, TVA Clinch River LIDAR Mapping Report, Tennessee Valley Authority Oak Ridge, TN, 26 pp.

Map Scale: 1:12,000 Map Projection: NAD 1983 StatePlane Tennessee FIPS 4100

PLATE 2c (southwest quadrant)
Clinch River Site Area Geologic Map

LCI Lettis Consultants International, Inc.

Clinch River
Reconnaissance Mapping