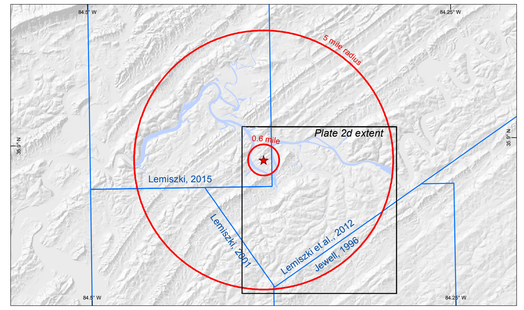

EXPLANATION

Geologic Units

Quaternary

- af — Artificial Fill
- Qha — Alluvium
- Qc — Colluvium
- Qnf — Alluvial Fan
- Qht0 Qht1 Qht2 Qht3 — Holocene Clinch River Terraces
- Qpf1 Qpf2 Qpt3 Qpt4 Qpt5 Qpt6 — Pleistocene Clinch River Terraces
- Qptu — Undifferentiated Pleistocene Terraces

Lower Silurian / Upper Ordovician

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

Middle Ordovician

Chickamauga Supergroup

Nashville Group

- Ocncy — Cannon Ls., Leipers and Catheys Fm. - undivided *limestone with shale interbeds*
- Ocyl — Catheys and Leipers Fm. - undivided *limestone with shale interbeds*
- Ocn — Cannon Ls. *limestone*
- Oh — Hermitage Fm. *limestone*

Chickamauga Group

- Och — Chickamuaga Group - undivided
- Omc — Moccasin Fm. *siltstone with limestone interbeds*
- Owi — Witten Fm. *limestone with shale interbeds*
- Obw — Bowen Fm. *siltstone with limestone interbeds*
- Obe — Benbolt Fm. *limestone with siltstone interbeds*
- Ork — Rockdell Fm. *limestone with siltstone interbeds*
- Ofl — Fleanor Shale mbr. of the Lincolnshire Fm. *shale and siltstone with limestone*
- Obl — Blackford Fm. (includes Eidsen mbr.) *limestone and siltstone*

Stones River Group

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

Lower Ordovician

Knox Group

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

Upper Cambrian

Conasauga Group

- Cc — Conasauga Group - undivided
- Cmn — Marynardville Ls. *limestone with dolomite and siltstone interbeds*
- Cn — Nolichucky Shale *shale with limestone interbeds*

Middle Cambrian

- Cdg — Dismal Gap Fm. (Maryville Ls.) *shale and limestone with dolomite and siltstone interbeds*
- Crg — Rogersville Shale *shale with mudstone and siltstone interbeds*
- Cf — Friendship Fm. (Rutledge Ls.) *limestone, dolomite, siltstone and shale*
- Cpv — Pumpkin Valley Shale *shale with mudstone and siltstone interbeds*

Lower Cambrian

Rome Formation

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

Geologic Structures

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

Other

- Contour, 25 ft interval
- A — A' Cross section location (see Figure 2.5.1-35)

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., Ketelle, 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.

Merrick Company, 2013, TVA Clinch River LiDAR Mapping Report, Tennessee Valley Authority Oak Ridge, TN, 29 pp.

N

0 1,000 2,000 feet

0 500 1,000 meters

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

PLATE 2d (southeast quadrant)
Clinch River Site Area Geologic Map

Lettis Consultants International, Inc.

Clinch River Reconnaissance Mapping