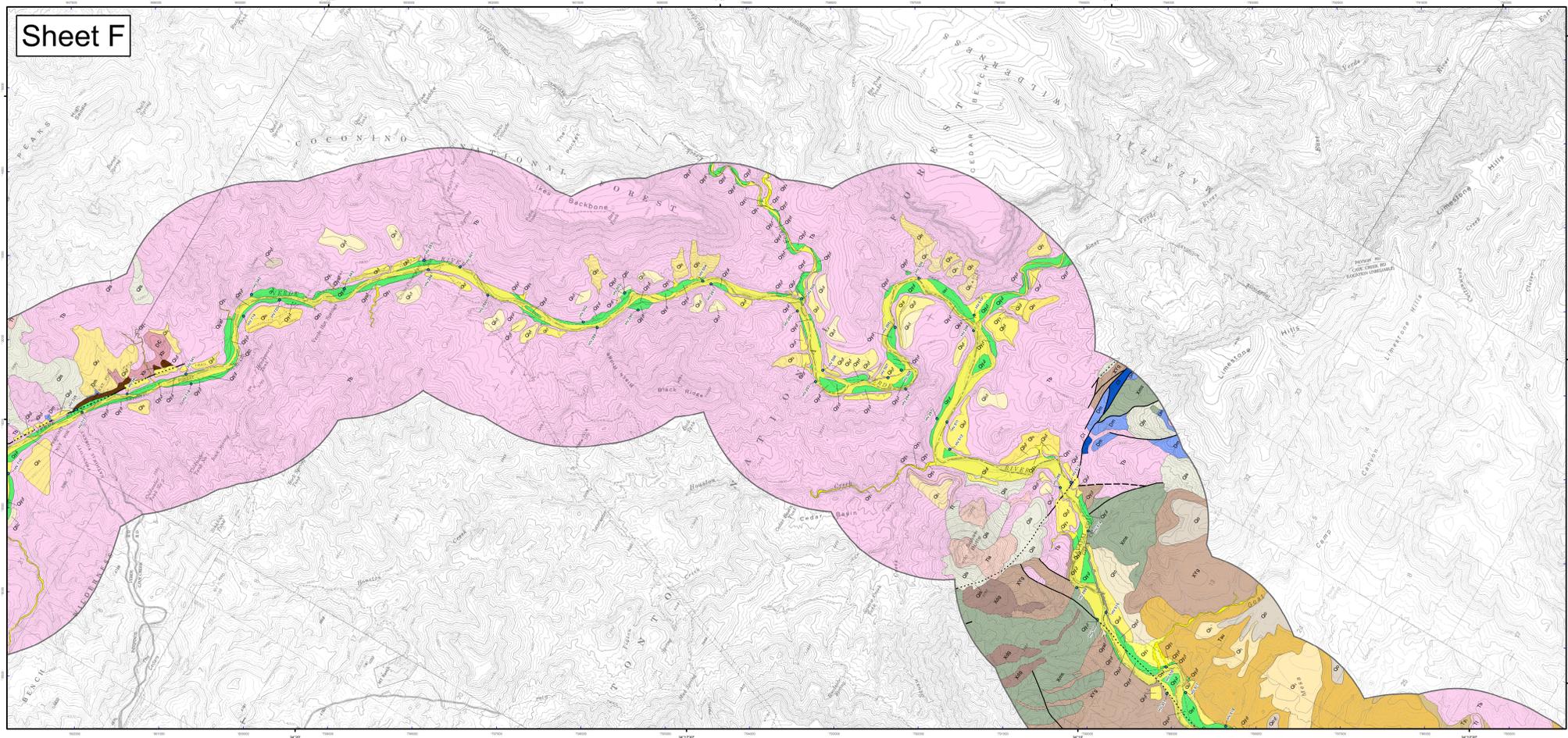


Sheet F



Map Unit Descriptions

- Other Units**
- Qc** Quaternary fillslope talus and colluvium - unconsolidated to weakly consolidated, very poorly sorted angular rock debris deposited at the base of bedrock slopes
 - Qr** Active river channel deposits - unconsolidated, very poorly sorted sandy to cobble beds in active river channels
 - Qf** Flood channel and low terrace deposits - unconsolidated sand, gravel and silt deposits on bars, low terraces and flood channels
 - Qh** Historical river terrace deposits - unconsolidated sand, gravel and silt deposits on low terraces that predate the abandoned early historical floodplain
 - Qm** Late Holocene to historical river terrace deposits - silt, clay, sand and minor gravel deposits underlying the early historical floodplain
 - Qe** Late to early Holocene river terrace deposits - silt, clay, sand and minor gravel terrace deposits slightly above the early historical floodplain
 - Qd** Late Pleistocene river terrace deposits - gravely, sandy river terrace deposits to 25 m above the active river channel
 - Qc** Middle to late Pleistocene river terrace deposits - high-standing, gravely, sandy river terrace deposits
 - Qm** Middle Pleistocene river terrace deposits - higher-standing, gravely, sandy river terrace deposits
 - Qe** Early Pleistocene river terrace deposits - younger - Very high, old Verde River terrace deposits, lower level
- Piedmont Alluvium**
- Qp** Modern stream channel deposits - active channel deposits composed of very poorly sorted sand, pebbles, and cobbles with some boulders to moderately-sorted sand and pebbles
 - Qy** Latest Holocene alluvium - unconsolidated, very poorly sorted silt to cobble low terrace and overflow channel deposits
 - Qyl** Late Holocene alluvium, active fan deposits - active portions of young fan deposits exhibiting distributary drainage patterns
 - Qh** Late Holocene alluvium - planar terrace deposits located along incised drainages, broad low-level flood fan deposits extending onto Holocene river alluvium, and infrequently active tributary drainage deposits
 - Qc** Landslide Deposits - Unsorted sediment resulting from mass down-slope movement
 - Qa** Late Pleistocene alluvial fan and terrace deposits - weakly consolidated sandy gravel deposits with moderate soil development
 - Qm** Middle to late Pleistocene alluvial fan and terrace deposits - weakly consolidated sandy gravel deposits with strong soil development
 - Qe** Early to middle Pleistocene alluvial fan and terrace deposits - high, moderately consolidated gravelly deposits with strong soil development
 - Qd** Middle to late Pleistocene alluvial fan and terrace deposits - high, moderately consolidated gravelly deposits with strong soil development
 - Qc** Early Pleistocene alluvial fan deposits, undivided - High, moderately consolidated gravelly deposits with strong soil development
- Cenozoic Basin Deposits**
- Tp** Late Miocene to Pliocene deposits - moderately to strongly indurated conglomerate and sandstone basin fill deposits
 - Tu** Tertiary deposits, undivided - Moderately to strongly consolidated conglomerate, undivided

Bedrock and surficial geologic mapping for areas outside the lateral limits of Holocene river alluvium was compiled from the following sources:

DeWitt, Ed, Langenheim, Victoria, Force, Eric, Vance, R.K., Lindberg, P.A., and Driscoll, R.L., 2008. Geologic map of the Prescott National Forest and the headwaters of the Verde River, Yavapai and Coconino Counties, Arizona. U.S. Geological Survey Scientific Investigations Map 2996, scale 1:100,000, 100-p. pamphlet.

Pearthree, P.A., 1993. Geologic and geomorphic setting of the Verde River from Sullivan Lake to Horseshoe Reservoir. Arizona Geological Survey Open-File Report 93-04, 25 p., 5 sheets, scale 1:24,000.

Wnucke, C.T., and Conway, C.M., 1987. Geologic map of the Mazatzal Wilderness and contiguous Roadless Area, Gila, Maricopa, and Yavapai Counties, Arizona. U.S. Geological Survey Open-File Report 87-0664, 22 p., 1 sheet, scale 1:48,000.

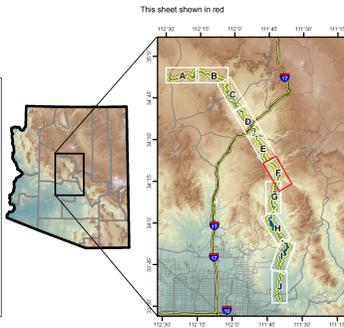
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416 W. Congress Street, Suite 100
Phoenix, AZ 85003
(602) 770-3000
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SURFICIAL GEOLOGIC MAP OF THE VERDE RIVER CORRIDOR, CENTRAL ARIZONA

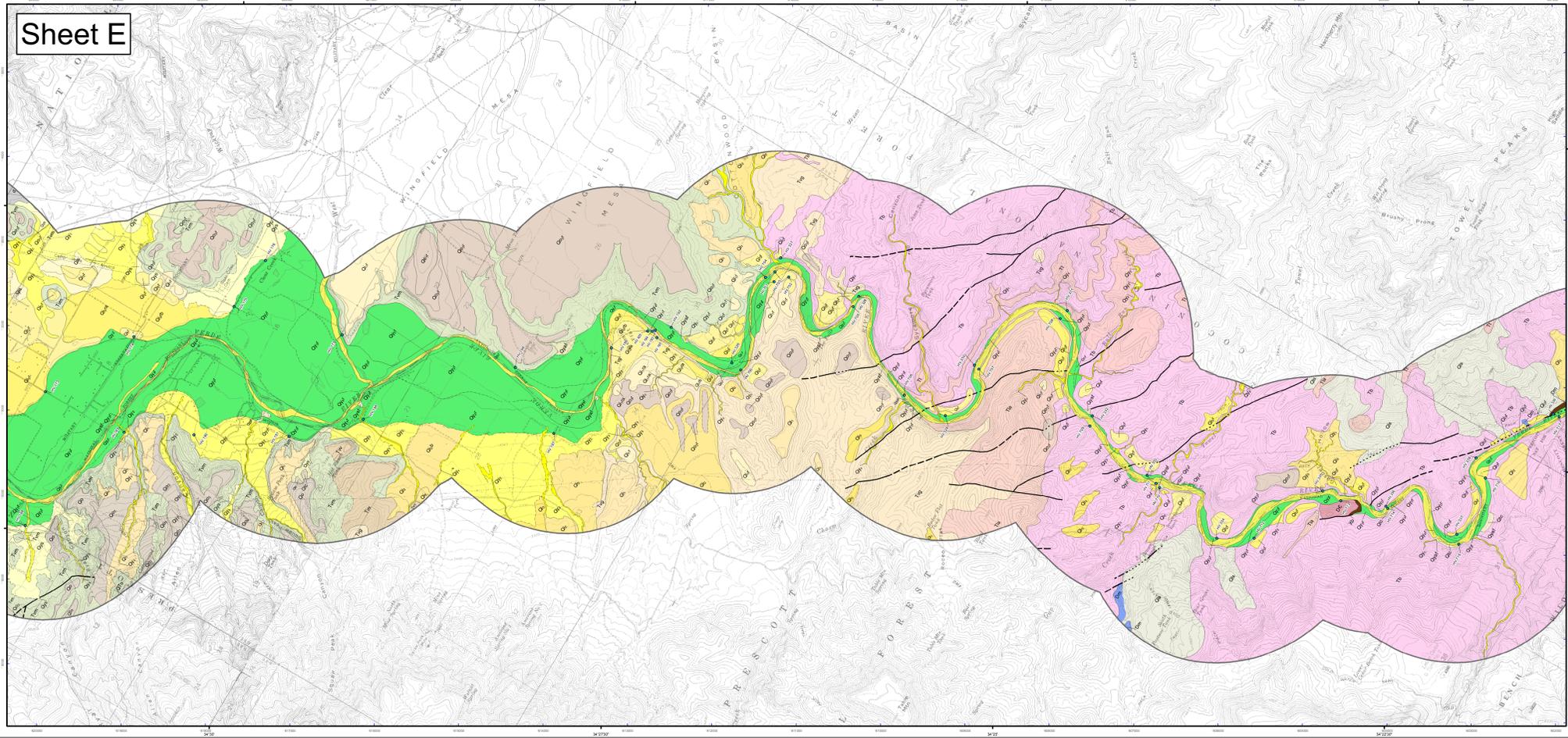
by
**Cook, J.P., Bigio, E.R., Youberg, A.,
Pearthree, P.A., and House, P.K.**
June 2010
Arizona Geological Survey
Digital Map DM-RM-2F
Funding for this project was provided by the
Arizona Department of Water Resources
USGS 24K quadrangle series topographic base maps,
North American Datum of 1983. Projection and 100-meter
grid ticks (blue). Universal Transverse Mercator, zone 12.



Location Map



Sheet E



Map Unit Descriptions

- Other Units**
- P** Paved areas - historically or actively paved fields, irrigated pastures, and other highly disturbed ground
 - D** Disturbed ground - heavily disturbed ground due to agriculture, extensive excavation, mining activity, or construction of earth dams
 - Qc** Quaternary fillslope talus and colluvium - unconsolidated to weakly consolidated, very poorly sorted angular rock debris deposited at the base of bedrock slopes
- River Alluvium**
- Qyl** Active river channel deposits - unconsolidated, very poorly sorted sandy to cobble beds in active river channels
 - Qf** Flood channel and low terrace deposits - unconsolidated sand, gravel and silt deposits on bars, low terraces and flood channels
 - Qh** Historical river terrace deposits - unconsolidated sand, gravel and silt deposits on low terraces that predate the abandoned early historical floodplain
 - Qm** Late Holocene to historical river terrace deposits - silt, clay, sand and minor gravel deposits underlying the early historical floodplain
 - Qe** Late to early Holocene river terrace deposits - silt, clay, sand and minor gravel terrace deposits slightly above the early historical floodplain
 - Qd** Late Pleistocene river terrace deposits, younger member - gravely, sandy river terrace deposits up to 25 m above the active river channel
 - Qc** Late Pleistocene river terrace deposits, older member - gravely, sandy river terrace deposits up to 25 m above the active river channel
 - Qm** Middle to late Pleistocene river terrace deposits - high-standing, gravely, sandy river terrace deposits
 - Qe** Middle to late Pleistocene river terrace deposits - high-standing, gravely, sandy river terrace deposits
 - Qd** Middle to late Pleistocene river terrace deposits, younger member - higher-standing, gravely, sandy river terrace deposits
 - Qm** Middle to late Pleistocene river terrace deposits, older member - higher-standing, gravely, sandy river terrace deposits
 - Qc** Middle to late Pleistocene river terrace deposits, older member - Very high, old Verde River terrace deposits, middle level
 - Qe** Early Pleistocene river terrace deposits, older - Very high, old Verde River terrace deposits, upper level
- Piedmont Alluvium (continued)**
- Qp** Landslide Deposits - Unsorted sediment resulting from mass down-slope movement
 - Qy** Fine-grained Pleistocene deposits - older fine-grained deposits derived primarily from the Verde Formation
 - Qa** Late Pleistocene alluvial fan and terrace deposits - weakly consolidated sandy gravel deposits with moderate soil development
 - Qm** Middle to late Pleistocene alluvial fan and terrace deposits, younger member - broad planar fan terraces formed capping basin fill deposits, typically inset into slightly older fill and terrace deposits
 - Qc** Middle to late Pleistocene alluvial fan and terrace deposits - weakly consolidated sandy gravel deposits with strong soil development
 - Qe** Early to middle Pleistocene alluvial fan and terrace deposits - high, moderately consolidated gravelly deposits with strong soil development
 - Qd** Early Pleistocene alluvial fan and terrace deposits - high, early Pleistocene alluvial fan deposits with moderate soil development
 - Qc** Early Pleistocene alluvial fan and terrace deposits - high, thin, early Pleistocene alluvial fan remains deposited on erosional scarrows out on the Verde Formation
 - Qe** Early Pleistocene alluvial fan deposits, undivided - high, moderately consolidated gravelly deposits with strong soil development
 - Qd** Latest Pliocene to early Pleistocene alluvium - Highest standing fan remains in Verde Valley
- Cenozoic Basin Deposits**
- Tp** Late Miocene to Pliocene Verde Formation, conglomeratic facies - Gravely to sandy, moderately to strongly indurated alluvial fan deposits
 - Tm** Late Miocene to Pliocene Verde Formation, lacustrine facies - Fine-grained, lacustrine sand and silt deposits
 - Tu** Late Miocene to Pliocene Verde Formation - Late Miocene to Pliocene Verde Formation, undivided
 - Tv** Interbedded gravel, lacustrine, and volcanic facies - This designation is used in areas where volcanic rocks are clearly interbedded with fluvial and lacustrine facies of the Verde Formation
- Bedrock Units**
- Tb** Tertiary basalt, undivided - Tertiary basalt flows, associated older cones and pyroclastic rocks, intrusive basalts, and mafic rocks
 - Tt** Tertiary tuff, undivided - Felsic ash flow tuff, pumice, and siliceous flows
 - Ti** Tertiary intermediate volcanic, undivided - Hornblende and biotite tuffs, myodolite, dacite, andesite, and associated volcanic and sedimentary rocks
 - Dm** Martin Formation - Devonian Martin Formation
 - DC** Undifferentiated lower Paleozoic rocks - Dolomite, limestone, quartzite-pebble conglomerate, and minor green shale
 - PM** Proterozoic granite, undivided - Fine to coarse grained granitoids, quartz monzonite, porphyry, myofite ash flows, myofite, and granophyre
 - MS** Proterozoic sedimentary, metamissimentary, and metavolcanic rocks, undivided - Quartzite, sandstone, and metavolcanic rocks
 - Xa** Diolite and gabbro - Early Proterozoic diolite and gabbro
 - B** Basaltic flows - Fine to medium-grained metamorphosed tholeiite, basalt, and minor ultramafic rocks

Bedrock and surficial geologic mapping for areas outside the lateral limits of Holocene river alluvium was compiled from the following sources:

DeWitt, Ed, Langenheim, Victoria, Force, Eric, Vance, R.K., Lindberg, P.A., and Driscoll, R.L., 2008. Geologic map of the Prescott National Forest and the headwaters of the Verde River, Yavapai and Coconino Counties, Arizona. U.S. Geological Survey Scientific Investigations Map 2996, scale 1:100,000, 100-p. pamphlet.

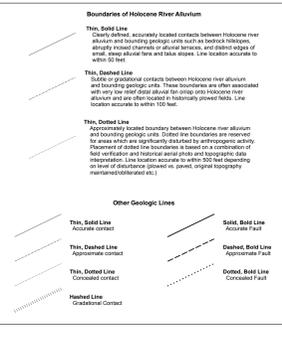
House, P.K., 1994. Surficial geology of the southern Verde Valley, Yavapai County, Arizona, Middle Verde, Camp Verde, and Homer Mountain (Homer Mtn.) quadrangles (7.5 min). Arizona Geological Survey Open-File Report 94-23, 20 p., 3 sheets, scale 1:24,000.

Pearthree, P.A., 1993. Geologic and geomorphic setting of the Verde River from Sullivan Lake to Horseshoe Reservoir. Arizona Geological Survey Open-File Report 93-04, 25 p., 5 sheets, scale 1:24,000.

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Location Map

