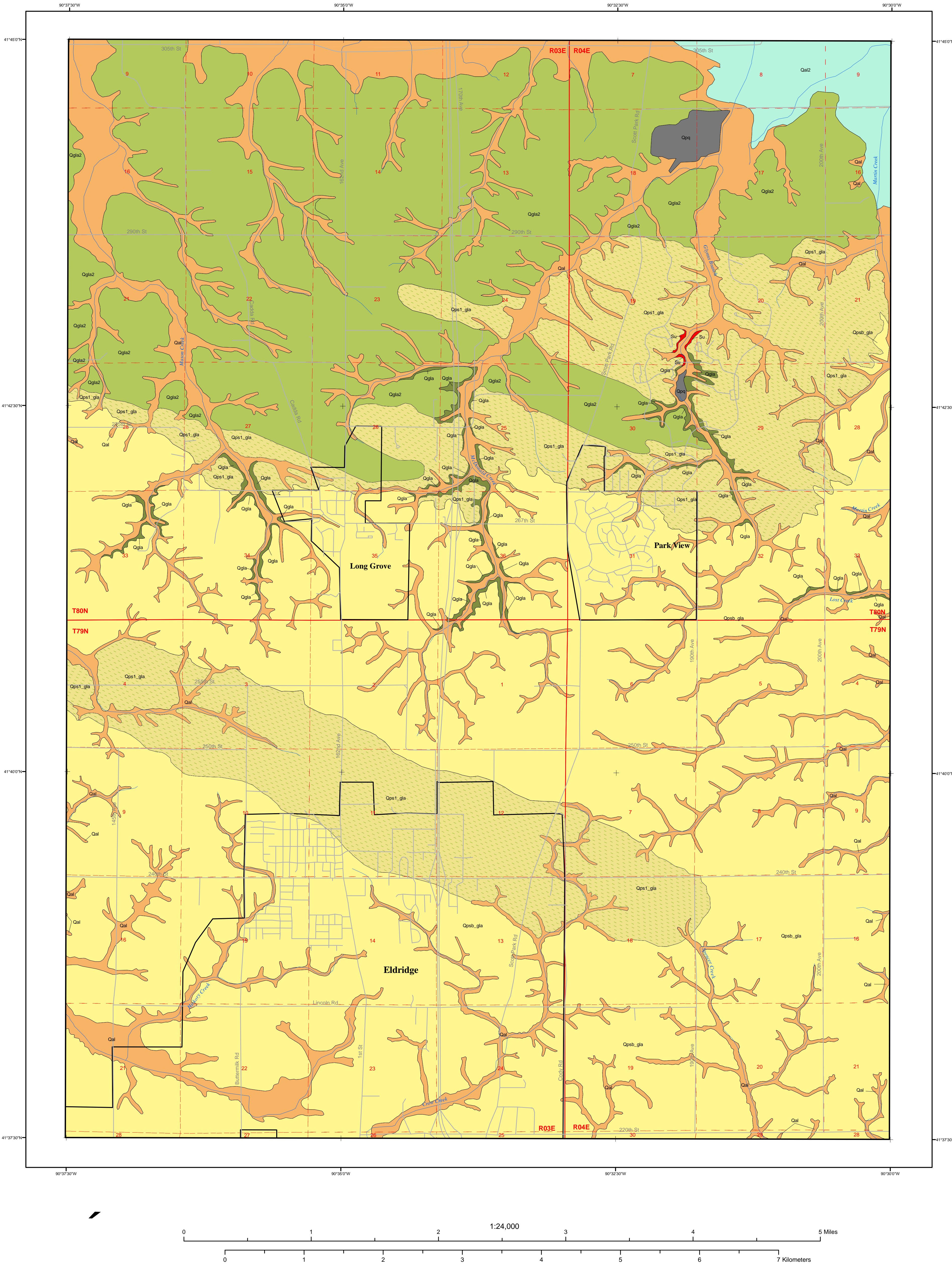


Surficial Geologic Materials of the Eldridge 7.5' Quadrangle Scott County, Iowa



SURFICIAL GEOLOGIC MATERIALS OF THE ELDRIDGE 7.5' QUADRANGLE, SCOTT COUNTY, IOWA

Iowa Geological Survey Open File Map 05-05, June 2005

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LEGEND

Description of Map Units

Hudson Episode

- Qal - Alluvium** (DeForest Formation-Undifferentiated) Variable thickness (<1 to 5 meters) of very dark gray to brown, noncalcareous to calcareous, stratified silty clay loam, clay loam, loam to sandy loam alluvium and colluvium in stream valleys, on hill slopes and in closed depressions. May overlie Glasford Formation glacial till or Noah Creek Formation. Associated with low-relief modern floodplain, closed depressions, modern drainageways or toeslope positions on the landscape. Seasonal high water table and potential for frequent flooding.
- Qal2 - Thick Alluvium** (DeForest Formation-Undifferentiated) Two to five meters of massive to moderately well stratified loam, silt loam, clay loam, or loamy sand overlying five to thirty meters of poorly to moderately well sorted, massive to well stratified, coarse to fine feldspathic pebbly sand and gravel of the Noah Creek Formation. This unit locally serves as an aquifer. Seasonally high water tables occur in this map unit.

Wisconsin Episode

- Qpsb_gla - Thick Loess** (Peoria Formation-silt facies) Generally 5 to 15 m of yellowish to grayish brown, massive, jointed calcareous or noncalcareous silt loam to silty clay loam. Overlies massive, fractured, clay loam glacial till of the Glasford formation with or without intervening clayey Farmdale Geosol. This mapping unit encompasses upland divides, ridgetops and convex sideslopes. Well to somewhat poorly drained landscape.
- Qpsl_gla - Thick Loess and Intercalated Eolian Sand** (Peoria Formation-silt facies) - Five to fifteen meters of yellowish brown to gray, massive, noncalcareous grading downward to calcareous silt loam and intercalated fine to medium, well sorted, sand. Minimum thickness of five meters on uplands. Maximum thickness of two to seven meters of loess occurs on adjacent slopes. Overlies massive, fractured, loamy glacial till of the Illinoian Glasford Formation with or without intervening clayey Farmdale /Sangamon Geosol.
- Qgla2 - Loamy and Sandy Sediment Shallow to Glacial Till** (Unnamed erosion surface sediment) One to three meters of yellowish brown to gray, massive to weakly stratified, well to poorly sorted loamy, sandy and silty erosion surface sediment. Map unit includes some areas mantled with less than two meters of Peoria Silt(ss). Overlies massive, fractured, firm glacial till of the Illinoian Glasford Formation. Seasonally high water table may occur in this map unit.

Illinois Episode

- Qgla - Till** (Glasford Formation) Generally 10 to 35 m of very dense, massive, fractured, loamy glacial till of the Illinoian Glasford Formation with or without a thin loess mantle (Peoria Formation-less than 2 meters) and intervening clayey Farmdale/ Sangamon Geosol. This mapping unit encompasses narrowly dissected interfluvial and side slopes, and side valley slopes. Drainage is variable from well drained to poorly drained.
- Su - Bedrock Exposures** (Silurian undifferentiated)
- Qpq - Pits and Quarries** Sand and gravel pits and rock quarries. Extent mapped as shown in county soil survey.

