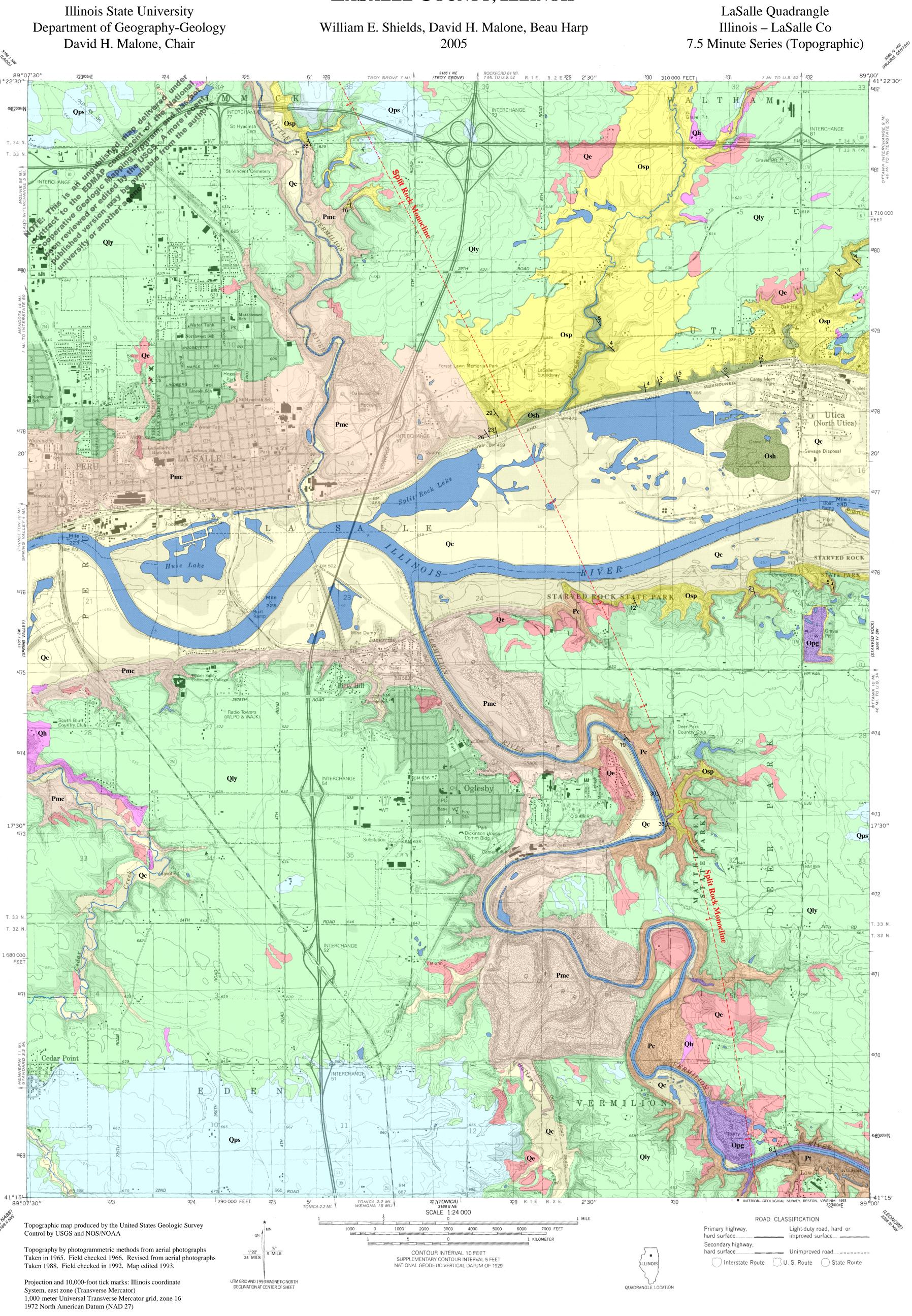
SURFICIAL GEOLOGY OF LASALLE QUADRANGLE LASALLE COUNTY, ILLINOIS



North American Datum 1983 (NAD 83) is shown by dashed corner ticks The values of the shift between NAD 27 and NAD 83 for 7.5-minute

Intersections are given in USGS Bulletin 1875

Material Lithostratigraphic Units And Interpretations **Quaternary System** Cahokia Formation: Forms terraces inside of meanders and at the mouths Dark gray to black stratified silt, sand, of tributaries. (modern stream deposits) thickness: 0-6 m. and some gravel Equality Formation: Lacustrine sediment deposited in glacial and Brown to gray to red bedded silt and postglacial lakes. Lonestones (isolated stones) and lenses of gravel, sand, diamicton, organic debris, and wood are present locally in the silt and clay. Thickness: 2-20 m. Henry Formation: Outwash deposits adjacent to or leading away from the Fine to coarse grained, well to poorly glacier, nearshore sand and gravel deposited in beaches, spits, bars, and stratified sediments of sand and gravel deltas in glacial and postglacial lakes, and eolian sand derived form placiofluvial, fluvial, and nearshore lake sediments deposited in dunes and sheets on and adjacent to those sediments. Thickness: 1-65 m. **Peoria Silt:** Predominantly proglacial loess derived primarily from Light yellow tan to gray silt. meltwater channels. In some areas it may contain small amounts of eolian sand, and locally it contains colluviated and sheetwash silt. Thickness: 0-10 m. Calcareous, gray fine to coarse **Lemont Formation:** Subglacial and ice-marginal facies of several textured (silty clay to sandy loam) offlapping glacigenic sequences. Predominant clast lithologies consist of diamicton. Paleozoic shale and carbonate. Locally is overlain by Illinoian till. Thickness: 0- 60 m. Pennsylvanian System McLeansboro Group: Alternating layer of sandstone, limestone, shale, Sandstone, limestone, shale, and coal and coal. Contains the Bond, Patoka, and Shelburn Formations. Thickness: Carbondale Formation: Alternating layers of sandstone, limestone, shale, Sandstone, limestone, shale, and coal Thickness: Tradewater Formation: Alternating layers of sandstone, limestone, shale, Sandstone, limestone, shale, and coal Thickness: **Ordovician System** Platteville-Galena Group: Marine limestone deposits Gray-buff fossiliferous, argillaceous limestone and dolomite. Locally contains bentonite and shale beds. Well-sorted, well-rounded, coarse to St. Peter Sandstone: Marine deposit medium grained ferrugenous, Thickness: 0 -150 m. calcareous, quartz sandstone Gray-white, thinly to massively bedded Shakopee Dolomite: Marine deposit. Locally oolitic, bioturbated, cherty, and fossiliferous. dolomite. Thickness: 0 -150 m. Contact Monocline – approximately located dipping in the direction of arrow

Strike and dip of bedding;

number indicates degree of dip

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