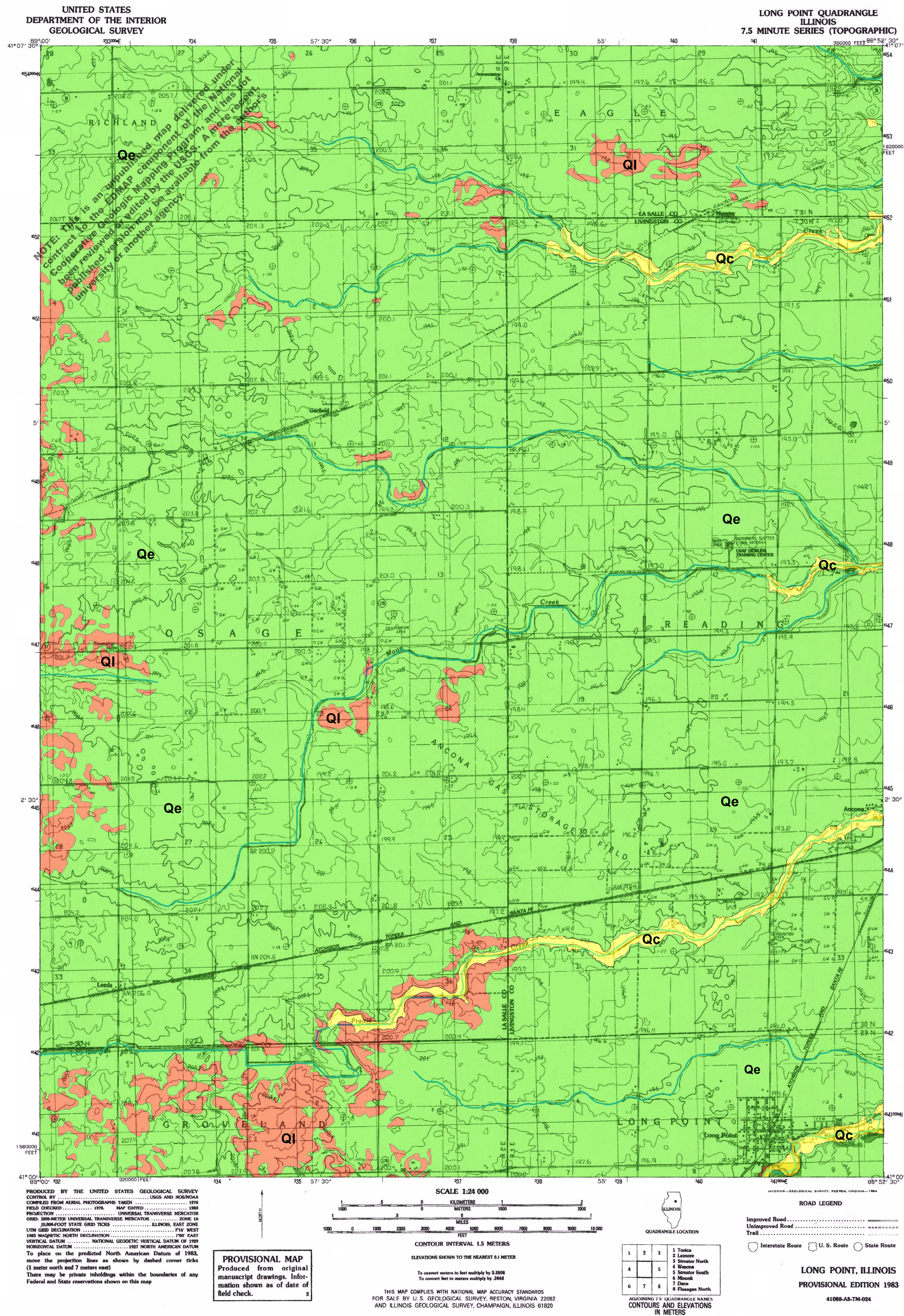


Surficial Geology of the Long Point Quadrangle

LaSalle and Livingston Counties, Illinois

Evan Bowen 2007



Lithostratigraphic Units and Interpretations

Geologic Materials Description	Stratigraphic Unit	Occurrence and Interpretation
Holocene Series Silt and clays with occasional lenses of sand; brown to yellowish brown; some mottling and bedding.	Cahokia Formation Qc	Postglacial (modern) alluvial deposits found on active floodplains and natural levees; coarse deposits on channels, point bars, and tributaries; commonly derived from eroded loess and diamicton.
Pleistocene Series Wisconsinan Stage Mason Group Silt and clays; bedded to massive; dark to light gray to light olive brown; calcareous; fine sand; thickness: 5-7 feet.	Equality Formation Qe	Glacial lake deposits occurring in low lying areas separating morainal features. Usually associated with glacial outwash of the Henry Formation.
Wedron Group Diamicton; clay loam; dark to olive gray; contains granules, pebbles, coal chips; calcareous; commonly underlain with sand and gravel of the Henry Formation; thickness: up to 13 feet.	Lemont Formation Ql	Subglacial and ice marginal sediments deposited with the advance of glacial ice. Lenses of sand and gravel common. Underlain with Tiskilwa Formation till deposits.

Geologic Contact

Tributary

Hansel, A.K., Johnson, H.W., 1996, Wedron and Mason Groups: Lithostratigraphic Reclassification of Deposits of the Wisconsin Episode, Lake Michigan Lobe Area, Illinois State Geological Survey Bulletin 104, 116 p.

Murphy, J.L., Malone D.H., Nelson, R.S., and Stiff, B.J., 2005, Geologic Map of the Spring Valley, IL 7.5 Minute Quadrangle, Scale 1:24,000. Illinois State Geological Survey EDMAP Series #5.

Shields, W.E., Malone, D.H., and Harp, B.R., 2005, Geologic Map of the LaSalle, IL 7.5 Minute Quadrangle, Scale 1:24,000. Map submitted to the Illinois State Geological Survey.

Willman, H.B., Atherton, E., Buschbach, T.C., Collinson, C., Frye, J.C., Hopkins, M.E., Lineback, J.A., Simon, J.A., 1975, Handbook of Illinois Stratigraphy, Illinois State Geological Survey Bulletin 95. 261p.

http://www.isgs.uiuc.edu/servs/pubs/map_series/quaternary_deposits_big.htm

<http://www.isgs.uiuc.edu/nsd/home/browse/statewide/bedgeob.gif>