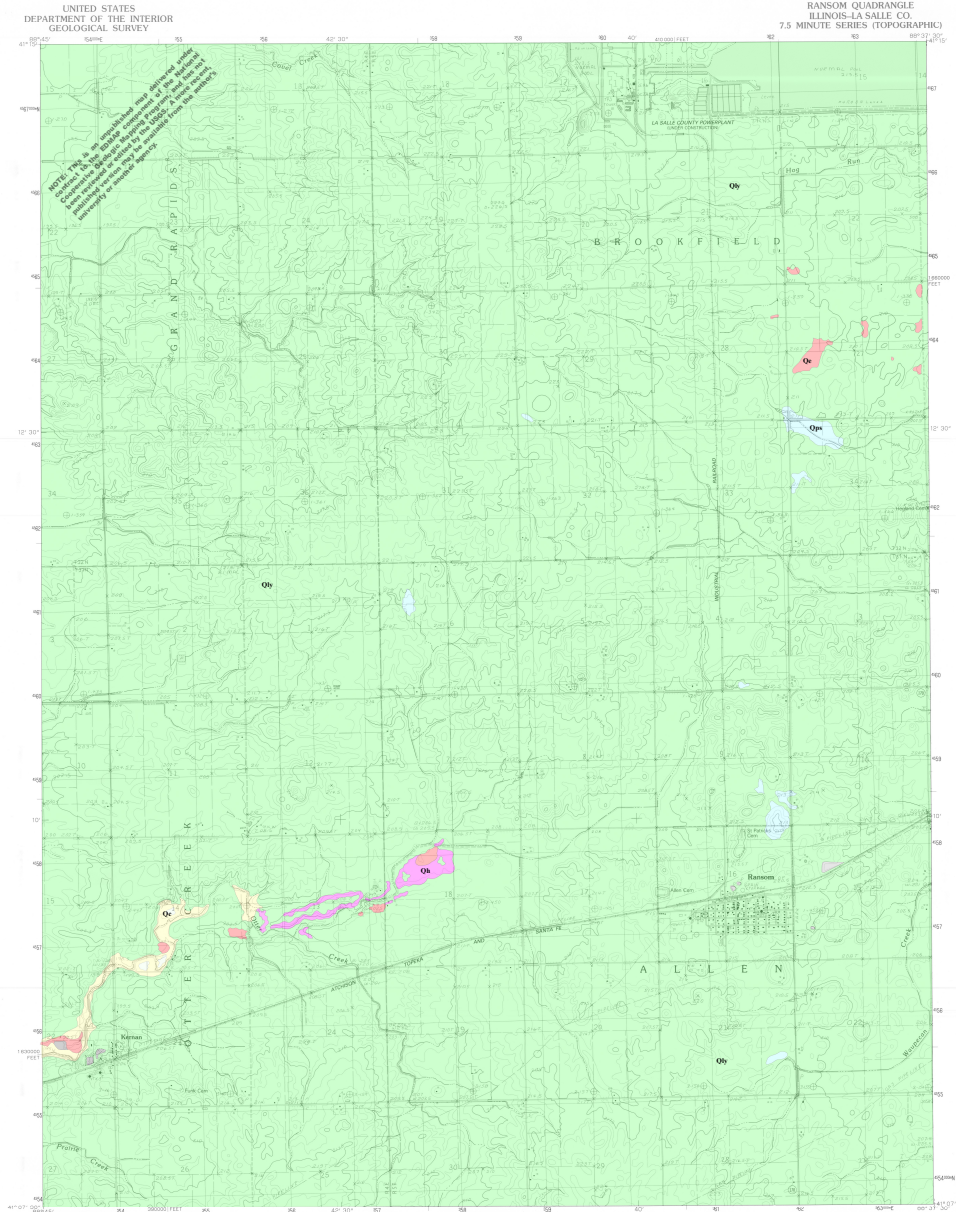


SURFICIAL GEOLOGY OF RANSOM QUADRANGLE LA SALLE COUNTY, ILLINOIS

Illinois State University
Department of Geography-Geology
David H. Malone, Chair

Dean Frohling, William E. Shields, David H. Malone
2007

Ransom Quadrangle
Illinois - LaSalle Co
7.5 Minute Series (Topographic)



Material	Lithostratigraphic Units And Interpretations
Quaternary System	
Dark gray to black stratified silt, sand, and some gravel	Qc Cabokia Formation: Forms terraces inside of meanders and at the mouths of tributaries. (modern stream deposits) thickness: 0-6 m.
Brown to gray to red bedded silt and clay	Qe Equality Formation: Lacustrine sediment deposited in glacial and postglacial lakes. Limestones (isolated stones) and lenses of gravel, sand, diamictite, organic debris, and wood are present locally in the silt and clay. Thickness: 2-20 m.
Fine to coarse grained, well to poorly stratified sediments of sand and gravel	Qh Henry Formation: Outwash deposits adjacent to or leading away from the glacial; nearshore sand and gravel deposited in beaches, spits, bars, and deltas in glacial and postglacial lakes, and colluvial sand derived from glaciofluvial, fluvial, and nearshore lake sediments deposited in dunes and sheets on and adjacent to these sediments. Thickness: 1-6.5 m.
Light yellow tan to gray silt.	Qps Peoria Silt: Predominantly proglacial loess derived primarily from meltwater channels. In some areas it may contain small amounts of colluvial sand, and locally it contains colluviated and sheetwash silt. Thickness: 0-10 m.
Calcareous, gray fine to coarse textured (silty clay to sandy loam) diamictite.	Qs Lemont Formation: Subglacial and ice-marginal facies of several offlapping glaciogenic sequences. Predominant clast lithologies consist of Paleozoic shale and carbonate. Locally is overlain by Illinoian till. Thickness: 0-60 m.
	Disturbed Ground: Excavated or fill material in areas of human activity such as sand and gravel pits, along roads, and coal mines
Contact	

PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY
CONFORMS WITH STATE TOPOGRAPHIC MAPS - MISSOURI AND IOWA
FIELD CHECKED - 1996 MAP EDITED - 1998
PROVISIONAL SURFACE LITHOLOGY AND STRATIGRAPHY
LITHOLOGY AND STRATIGRAPHY FROM 1998
LITHOLOGY AND STRATIGRAPHY FROM 1998
LITHOLOGY AND STRATIGRAPHY FROM 1998

To place on the projected North American Datum of 1983
near the projection lines are shown by dashed corner ticks
Litho and Strat units shown within the boundaries of any
Federal and State reservation shown on this map.

SCALE 1:24 000

CONTOUR INTERVAL 1.5 METERS

CONTROL ELEVATIONS SHOWN TO ONE DECIMAL (0.1) METER
OTHER ELEVATIONS SHOWN TO THE NEAREST 0.1 METER
Elevations are to sea level unless otherwise noted.
Elevations are to sea level unless otherwise noted.

THIS MAP COMPLETES THE NATIONAL MAP ACCURACY DEMONSTRATION
FOR SALE BY U.S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 20192
AND THE STATE GEOLOGICAL SURVEY, CHAMPAIGN, ILLINOIS 61820

ROAD LEGEND

Impervious Road
Unimpervious Road
Trail

Interstate Route U.S. Route State Route

QUADRANGLE LOCATION

1	2	3
4	5	6
7	8	9

CONTOURS AND ELEVATIONS IN METERS

RANSOM, ILLINOIS
PROVISIONAL EDITION 1983
41886-000-104-001