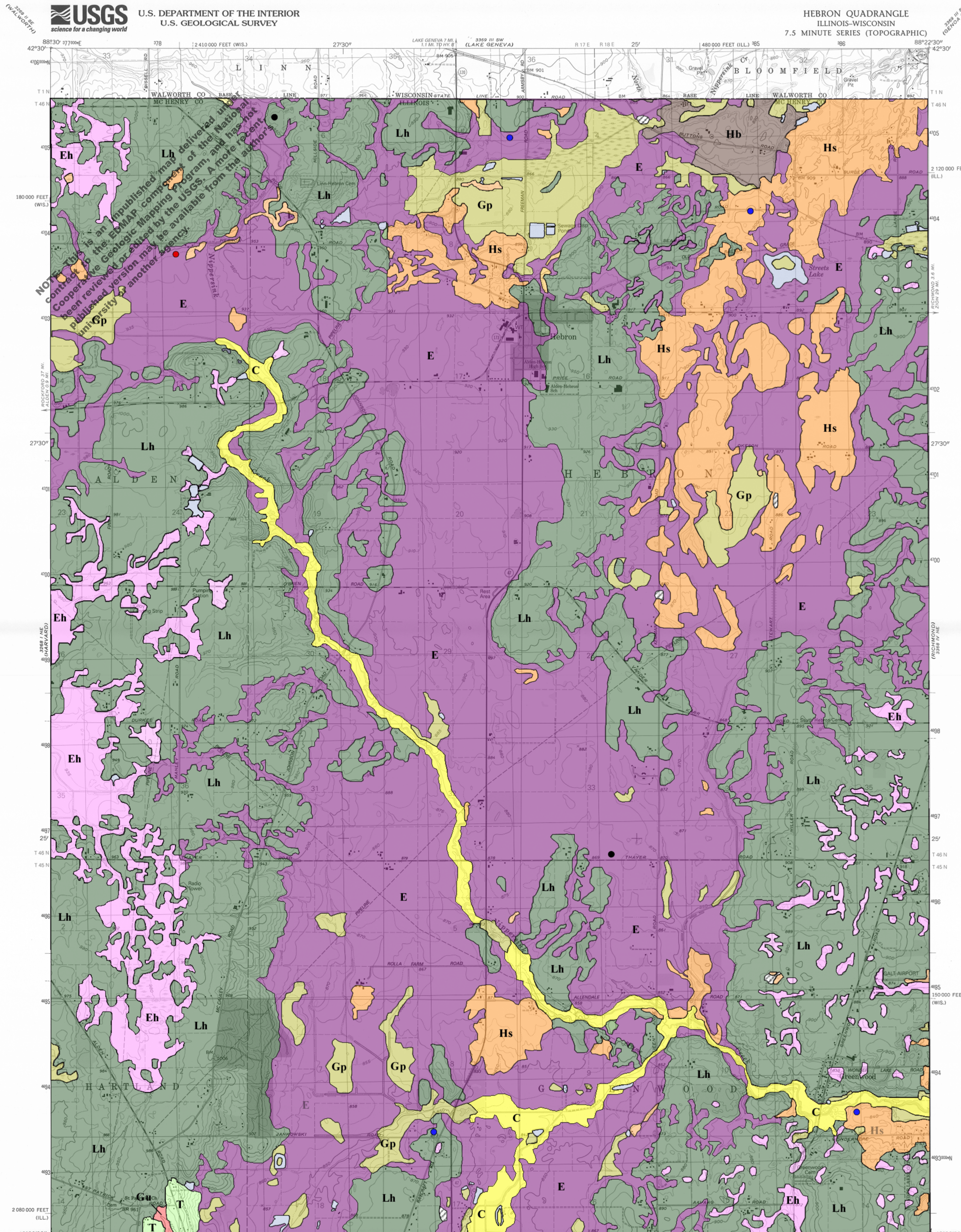


Surficial Geologic Map of the Hebron 7.5 Minute Quadrangle

D. Carlock, J. Thomason, and D. Malone 2009



Map Units and Descriptions

Hudson Episode (Holocene)

- C** Cahokia Alluvium- Alluvium; Primarily silt and sand or coarser sediment reworked from Wisconsin Episode outwash.
- Gp** Grayslake Peat- Peat and organic rich fluvial or lacustrine sediment deposited in glacial and Holocene lake basins or on shallow gradient flood plains.

Wisconsin Episode

Wedron Group

- Lh** Haeger Member (Lemont Fm.)- The coarse grained uppermost unit of diamicton in the Lemont Formation. Consists of calcareous, light gray to gray, coarse textured (sandy loam) gravelly diamicton that contains lenses of sand, gravel, silt, and clay.
- T** Tiskilwa Formation- The lowermost sequence of red to gray diamicton units in the Wedron Group. Consists of calcareous, red gray to gray, medium textured (clay loam to loam) diamicton that contains lenses of gravel, sand, silt, and clay.

Mason Group

- E** Equality Formation- Red silt and clay lacustrine sediments. Consists of brown to gray to red bedded silt and clay that is similar in grain size and lithology to the Wedron Group.
- Hs** Surficial Tongue (Henry Fm.)- Stratified sand and gravel from the Woodstock Phase proglacial outwash. Occurs solely at land surface.
- Hb** Beverly Tongue (Henry Fm.)- Stratified sand and gravel of the Henry Formation that extends beneath the Haeger Member diamicton of the Lemont Formation. Consists of fingers and lentils of medium to coarse grained, stratified sediments.
- Eh** Equality (H) Formation- The lacustrine sediment filling the hummocky depression on top of the Haeger diamicton of the Lemont Formation.

Illinois Episode

- Gu** Glasford Formation, undiv.- Subglacial silt to sandy loam diamicton deposits of the Illinois Episode.

Other

- D** Disturbed Land- Land which has been altered or modified by human activity.
- W** Open Water- Water found at land surface.

- MC/NIPC Borings
- 2009 ISGS Boring
- 2008 ISGS and USACE Borings
- Geologic Contact

Produced by the United States Geological Survey
 Control by USGS and NGS/NADA
 Topography by photogrammetric methods from aerial photographs taken 1961. Field checked 1963. Revised from aerial photographs taken 1988. Field checked 1991. Map edited 1992.
 Projection: Illinois coordinate system, east zone
 Transverse Mercator
 10,000-foot grid ticks: Illinois coordinate system, east zone and Wisconsin coordinate system, south zone
 1000-meter Universal Transverse Mercator grid, zone 16
 1927 North American Datum
 The difference between 1927 North American Datum and North American Datum of 1983 (NAD 83) for 7.5-minute intersections is given in USGS Bulletin 1875. The NAD 83 is shown by dashed corner ticks.
 Red text indicates areas in which only landmark buildings are shown.
 Fine red dashed lines indicate selected fence and field lines where generally visible on aerial photographs. This information is uncorrected.

UTM GRID AND 1992 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

SCALE 1:24,000

CONTOUR INTERVAL 10 FEET
 DOTTED LINES REPRESENT 5-FOOT CONTOURS
 NATIONAL GEODETIC VERTICAL DATUM OF 1929

ROAD CLASSIFICATION
 Primary highway, hard surface ————— Light-duty road, hard or improved surface
 Secondary highway, hard surface ————— Unimproved road
 Interstate Route ——— U. S. Route ——— State Route

HEBRON, ILL.—WIS.
 42088-D4-TF-024
 1992
 DMA 3368 IV NW—SERIES 5963

COMPLIES WITH U. S. GEOLOGICAL SURVEY STANDARDS FOR SERIAL ACCURACY CLASS 2 FOR SALES BY U. S. GEOLOGICAL SURVEY
 DENVER, COLORADO 80226, OR RESTON, VIRGINIA 22092
 AND ILLINOIS GEOLOGICAL SURVEY, CHAMPAIGN, ILLINOIS 61820
 A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

