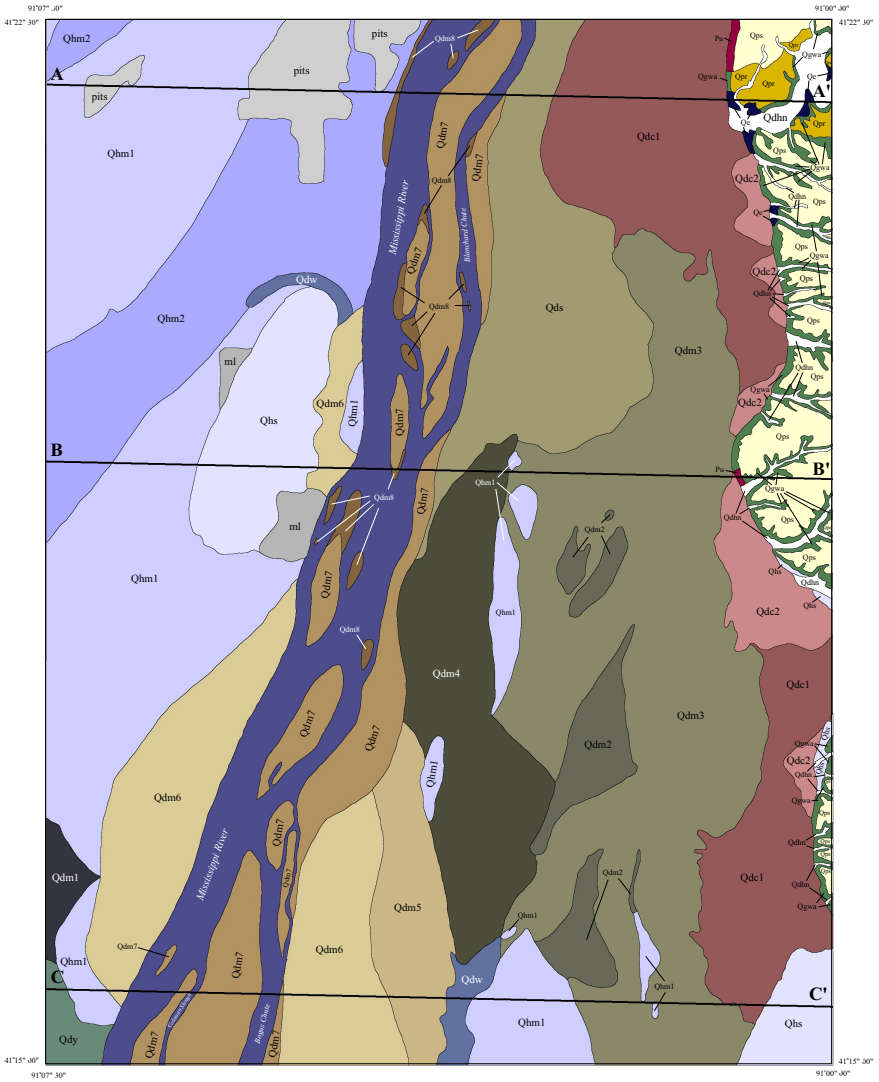
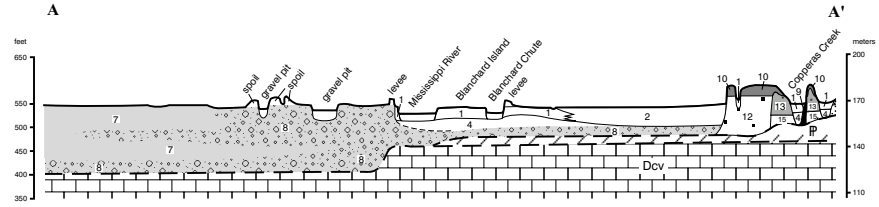
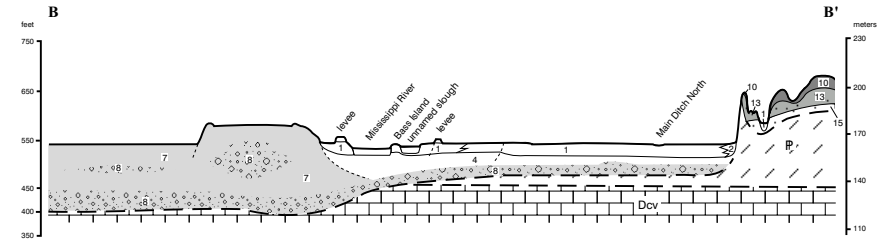
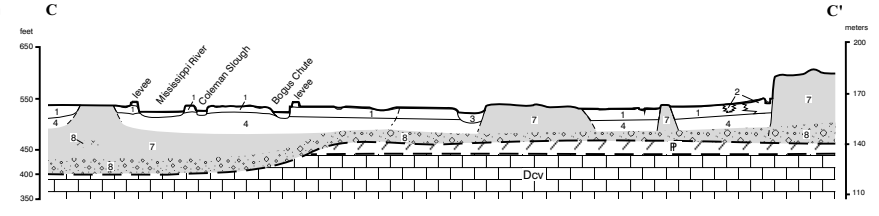
SURFICIAL GEOLOGIC MATERIALS
OF THE BLANCHARD ISLAND QUADRANGLE, ILLINOIS - IOWA









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Geological Survey Bureau

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Larry J. Wilson, Director

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Description of Map Units

Holocene

Qdm8 ALLUVIUM, sand and loam, post-1930 (DeForest Formation, Camp Creek Member) over sand and pebbly sand of Henry Formation

Qdm7 ALLUVIUM, silt loam, clay loam, and sand mantled with 1.0 to 2.0 meters of Historic alluvium, located channelward of artificial levee (DeForest Formation) over sand and pebbly sand of Henry Formation

Qdm6 ALLUVIUM, silt loam, clay loam, and sandy loam with many small organic deposit inclusions, mantled with 0.5 to 2.0 meters of Historic alluvium, calcareous at depth (DeForest Formation) over sand and pebbly sand of Henry Formation

Qdm5 ALLUVIUM, silt loam, clay loam, and sand with organic deposit inclusions, mantled with 0.5 to 1.0 meters of Historic alluvium, calcareous at depth (DeForest Formation) over sand and pebbly sand of Henry Formation

Qdm4 ALLUVIUM, silt loam, clay loam, organic-rich loam, and sand, mantled with less than 0.5 meters of Historic alluvium, calcareous at depth (DeForest Formation) over sand and pebbly sand of Henry Formation

Qdm3 ALLUVIUM, silt loam, clay loam and organic-rich clay loam, noncalcareous and two to four meters thick (DeForest Formation) over sand and pebbly sand of Henry Formation

Qdm2 ALLUVIUM, silt loam, clay loam, and sandy loam with thin reddish brown silty clay beds at base, noncalcareous and one to two meters thick (DeForest Formation) over sand and pebbly sand of Henry Formation

Qdm1 ALLUVIUM, silt loam and clay loam with 0.1 to 0.3 meter-thick zone of reddish brown silty clay laminae at base, noncalcareous and two to four meters thick (DeForest Formation) over sand and pebbly sand of Henry Formation

Qds ALLUVIUM, sandy loam, loam and silt loam natural levee and crevasse splay deposits, calcareous at depth and one to five meters thick (DeForest Formation) over deposits of map units Qdm3 and Qdm4 and sand and pebbly sand of Henry Formation

Qdc1 ALLUVIUM, sandy loam and pebbly sand alluvial fan deposits, two to eleven meters thick (DeForest Formation, Corrington Member) over older Holocene alluvium

Qdc2 ALLUVIUM AND COLLUVIUM, loam and pebbly loam alluvial fan and colluvial slope deposits, two to eleven meters thick (DeForest Formation, Corrington Member) over older Holocene alluvium

Qdy ALLUVIUM, silt loam, clay loam, sandy loam, and organic-rich deposits in meander belts of anabranch channels (DeForest Formation) over sand and pebbly sand of Henry Formation

Qdw LAKE AND MARSH DEPOSITS, peat, muck and other organic-rich lacustrine and paludal deposits in abandoned Mississippi River channels (DeForest Formation) over sand and pebbly sand of Henry Formation

Qdhn ALLUVIUM, up to three meter thick loam and sandy loam alluvium (DeForest Formation) over sand and pebbly sand of Henry Formation

Late Wisconsinan

Qps LOESS, silt loam with interbedded eolian sand (Peoria Loess), buries Sangamon Soil developed in till or erosion surface on till

Qpr LOESS, silt loam with interbedded eolian sand (Peoria Loess), buries Farmdale Soil developed in Roxana Silt and Sangamon Soil developed in sandy and gravelly outwash of the Pearl Formation

Qc SLACKWATER DEPOSITS, laminated to thinly bedded silt, reddish brown silty clay, and fine to medium sand, Savanna Terrace in Mississippi Valley tributaries (Equality Formation, Plum River Member)

Qhs OUTWASH SAND AND PEBBLY SAND, coarse to fine sand and pebbly sand mantled with up to 5.0 meters of eolian sand, Savanna Terrace complex in Mississippi Valley (Henry Formation, Sabula Member)

Qhm1 OUTWASH SAND AND PEBBLY SAND, coarse to fine sand and pebbly sand mantled with up to 1.5 meters of eolian sand, Kingston Terrace complex in Mississippi Valley (Henry Formation, Muscatine Member)

Qhm2 OUTWASH SAND AND PEBBLY SAND, coarse to fine sand and pebbly sand with thin gravel lenses within two meters of modern surface, mantled with thin sand sheet, Kingston Terrace complex in Mississippi Valley (Henry Formation, Muscatine Member)

Complex (Holocene and Pleistocene)

Qgwa ALLUVIUM, LOESS, SAND, GLACIAL TILL (DeForest, Glasford, Pearl, Wolf Creek, and Alburnett formations, Peoria Loess, and undifferentiated Pennsylvanian rocks)

Pennsylvanian

Pu LITHIFIED SHALLOW MARINE AND FLUVIAL DEPOSITS (Caseyville, Abbott and Spoon formations)

Other Map Units

ml Made land

pits Gravel pits in map units Qhm1 and Qhm2

SCALE
1:24,000

0 .5 1 2 miles

0 .5 1 2 kilometers

Cross-section Key

Holocene

1 DeForest Formation; fine-grained alluvium

2 DeForest Formation, Corrington Member; alluvial fan and colluvial slope deposits

3 DeForest Formation; peat, muck, organic-rich clay and silt

4 DeForest and Henry formations; sand and gravel, channel deposits

Late Wisconsinan

7 Henry Formation, Sabula and Muscatine members; sand and pebbly sand, valley-train outwash

8 Henry Formation; gravel, valley-train outwash

9 Equality Formation, Plum River Member; fine-grained slackwater deposits

10 Peoria Loess and Roxana Silt; wind-blown silt and sand

Illinoian

12 Pearl Formation; glacial outwash

13 Glasford Formation, Kellerville Member; glacial till

Pre-Illinoian

15 Wolf Creek and Alburnett formations; glacial tills, associated sand, gravel and silts with limited distribution, and buried soils

Pennsylvanian

P Caseyville, Abbott, and Spoon formations; shale, coal, mudstone and sandstone

Devonian

Dcv Cedar Valley Group; carbonate rocks