

Surface Geology

Pisek Quadrangle, North Dakota

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2016

 Gravel Pit (Abandoned and/or reclaimed)

QUATERNARY

HOLOCENE

OAHE FORMATION

Sand, silt, clay, gravel, and organic debris; all postglacial sediment deposited on the landscape; includes river sediment, windblown sediment, lake sediment, and slopewash.

 Alluvium And Overbank Sediment

Sand, silt, clay and disseminated organic debris; obscurely bedded; dark colored; in many places associated with sand and gravel of older river-channel sediment; commonly more than three feet (1 meter) thick.

 Pond and slough sediment

Organic debris, clay, and silt; obscurely bedded; dark colored; generally more than three feet (1 meter) thick; deposited in poorly drained depressions in the landscape.

SHERACK FORMATION

Clay, silty clay, silt, and sand; thinly laminated; clayey in the central part of the lake plain and silty toward the margins; light gray where unoxidized and yellowish gray to olive-brown where oxidized; wood fragments common at the base; offshore, nearshore, shoreline and deltaic sediment deposited south of ice that occupied the Red River lowland during the Emerson Phase of Glacial Lake Agassiz. Only the offshore, nearshore, and shoreline units occur in the map area.

 Offshore Lake Sediment

Laminated clay, clayey silt, silty clay, silt, and sand; clayey in the central part of the Red River Valley and siltier towards the margins; laminations are generally only a few millimeters thick but some of the silty beds are locally several centimeters thick; bedding deformed in places into folds a few feet high and several feet across; light gray when unoxidized and yellowish gray to olive brown when oxidized; wood fragments common in the lower few feet of the formation; as much as 100 feet (33 meters) thick.

 Nearshore Sediment

Moderately well sorted; flat bedded to cross-bedded; light gray when unoxidized and yellowish gray to olive brown when oxidized; as much as 15 feet (5 meters) thick; deposited in shallow water.

 Shoreline Sediment

Silt, sand, and gravel; moderately to well-sorted; plane-bedded; to cross-bedded; as much as 18 feet (6 meters) thick; deposited along the shoreline of Lake Agassiz, commonly on eroded till; gravel occurs in beach ridges that are flanked by low-relief, lakeward-sloping areas of silt, sand, and wave-eroded till; beach ridges, spits, and offshore sand bars are shown as line symbols.

PLEISTOCENE

COLEHARBOR GROUP

The Coleharbor Group includes all sediments in North Dakota associated with deposition by Pleistocene glaciers.

GOOSE RIVER FORMATION (UNDIFFERENTIATED)

Sediment deposited by a glacier as a result of a readvance from the northwest (Riding Mountain provenance) of the generally retreating Late Wisconsinan ice sheet into the Red River lowland.

 Clay-loam, pebbly

Unsorted; unbedded; contains cobbles and boulders; shale pebbles abundant; as much as 80 feet (24 meters) thick; deposited by glacial ice on an ice-cored glaciated landscape; collapsed glacial sediment with more than 30 feet (10 meters) of relief.


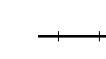

 Clay-loam, pebbly

Unsorted; unbedded; as much as 80 feet (24 meters) thick; flat to gently undulating surface, very bouldery in places; a thin veneer of shoreline, nearshore, or offshore sediment is commonly present; glacial sediment eroded (washed) by lake waves.

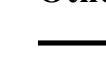
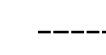
 Clay-loam, pebbly

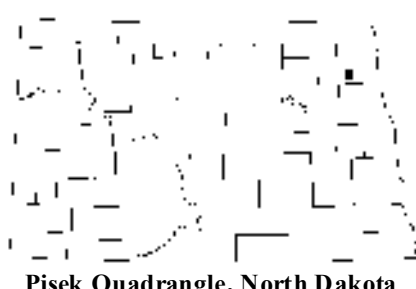
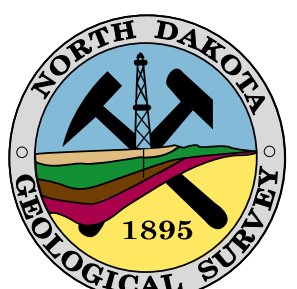
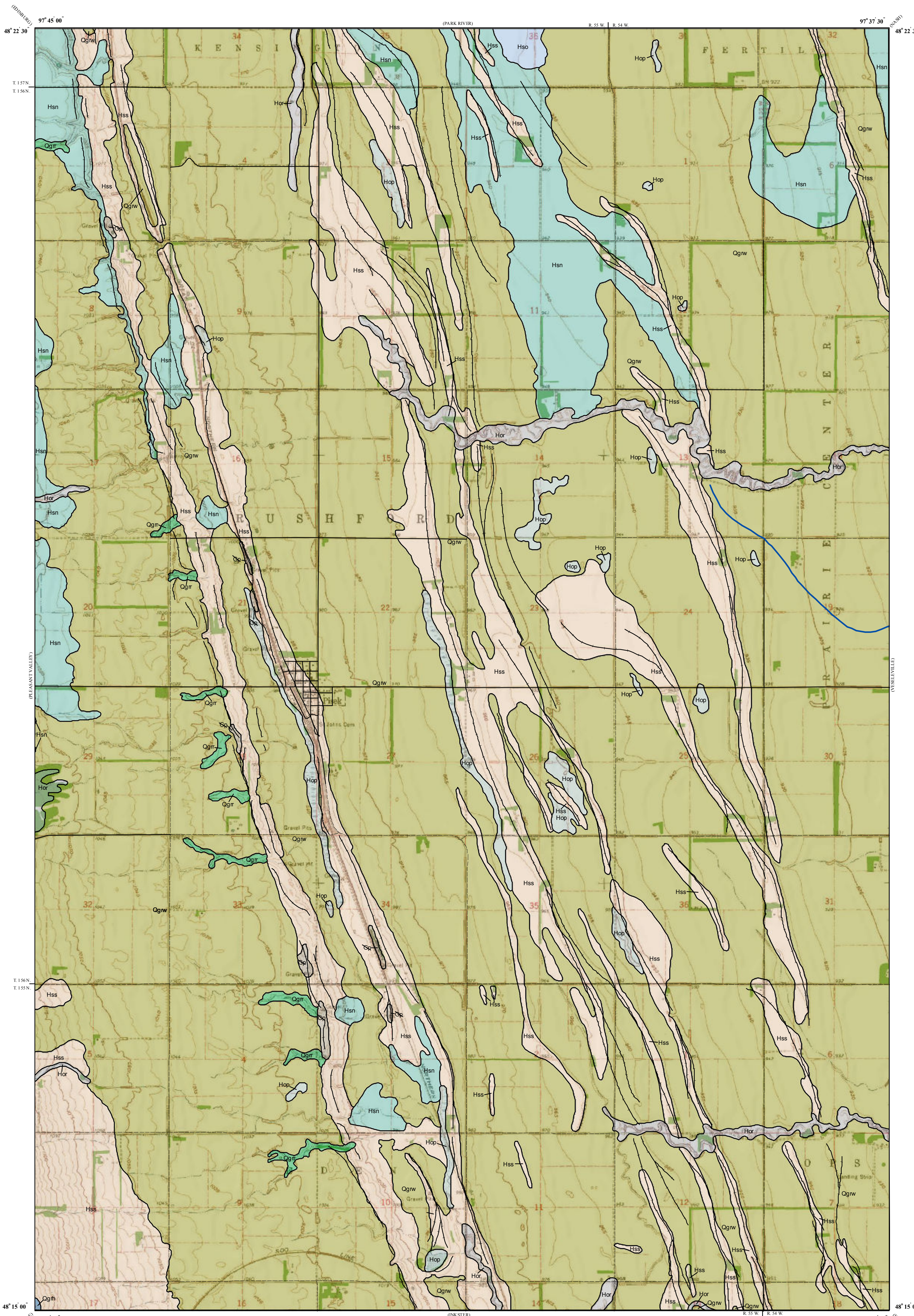
Unsorted; unbedded; as much as 80 feet (24 meters) thick; flat to gently sloping surface, very bouldery in places; glacial sediment eroded by streams.

Geologic Symbols

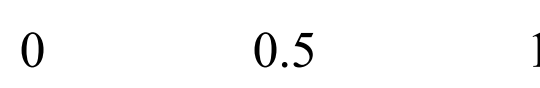
-  Geologic contact
 -  Beach ridges, spits and offshore bars
 -  Compaction ridge
- Established from aerial photographs; line indicates the crest of the ridge; interpreted as beach ridges, spits or offshore bars deposited along the margin of Lake Agassiz; discernible on topographic maps and on the ground.
- Established from aerial photographs; line marks the crest of the ridge located in the Lake Agassiz basin; interpreted as indicators of stream sediment buried by lake sediment or thin glacial sediment; generally difficult to discern on topographic maps and on the ground.

Other Features

-  Paved Road
-  Unpaved Road



Scale 1:24,000



Miles

Lambert Conformal Conic Projection Standard Parallels 48° 15' 00" and 48° 22' 30"
1927 North American Datum NGVD 1929
USGS 7.5 Minute Topographic Map Contour Interval 5 Feet

9° 30'

MN

1963 Magnetic North
Declination at Center of Sheet