



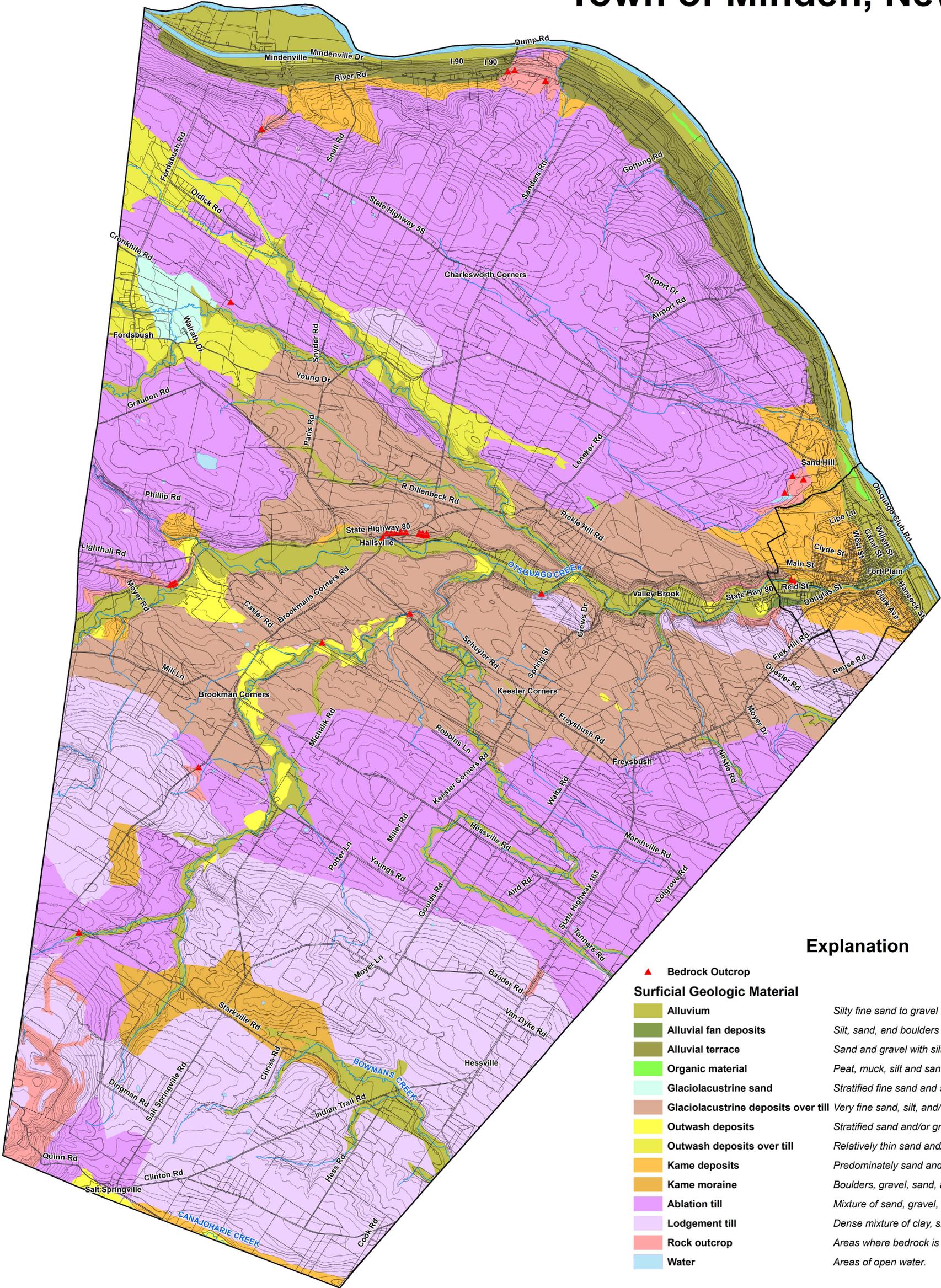
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Plate 2

Surficial Geologic Materials

Town of Minden, New York



Explanation

- ▲ **Bedrock Outcrop**
- Surficial Geologic Material**
- **Alluvium** *Silty fine sand to gravel found along flood plains.*
- **Alluvial fan deposits** *Silt, sand, and boulders at the base of steep ravines.*
- **Alluvial terrace** *Sand and gravel with silt above present flood plains.*
- **Organic material** *Peat, muck, silt and sand in poorly drained areas.*
- **Glaciolacustrine sand** *Stratified fine sand and silt from proglacial lake.*
- **Glaciolacustrine deposits over till** *Very fine sand, silt, and/or clay over till (hardpan).*
- **Outwash deposits** *Stratified sand and/or gravel from proglacial streams.*
- **Outwash deposits over till** *Relatively thin sand and/or gravel over till (hardpan).*
- **Kame deposits** *Predominately sand and gravel deposited near ice.*
- **Kame moraine** *Boulders, gravel, sand, and silt from an ice margin.*
- **Ablation till** *Mixture of sand, gravel, and boulders with less clay/silt.*
- **Lodgement till** *Dense mixture of clay, silt, sand, gravel, and boulders.*
- **Rock outcrop** *Areas where bedrock is found at or near the surface.*
- **Water** *Areas of open water.*

Uses of This Map:

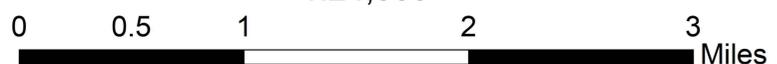
Surficial geologic material maps have many different potential uses for planning purposes. One of the most frequent uses is to help identify sand and gravel aquifer boundaries. Surficial geologic maps are important for identifying economically important deposits such as sand and gravel for aggregate. Surficial geologic maps are also important to study environmental issues such as the potential for migration of groundwater contaminants. Finally, surficial geology maps are useful for planning site development activities such as designing and locating septic systems, building new roads, excavating foundations, etc.

About This Map:

This map shows the type and distribution of geologic materials found at or near the land surface. These materials are unconsolidated (loose) sediments that overlie solid rock (bedrock). However, bedrock outcrops and areas with thin unconsolidated deposits are shown on the map. Most of the surficial materials are deposits formed by glacial and deglacial processes during the last stage of continental glaciation.

Scale

1:24,000



How This Map Was Made:

The surficial materials of the Town of Minden, New York were mapped by Steven Winkley of the New York Rural Water Association at a scale of 1:24,000. The surficial materials were digitally mapped based upon a compilation of: soil parent material data from the digital soil survey of Montgomery County, New York (USDA Natural Resources Conservation Service), Plate 5 from the United States Geological Survey Water-Resources Investigations Report 88-4091, field observations, and subsurface data from water wells and test borings.

