



Base from County map, State of Michigan Department of Conservation  
Geology by C.L. Doonan and J.L. VanAlstine, 1978

EXPLANATION

| Map Symbol | Rock Unit                  | Composition  | Availability of Ground Water  |
|------------|----------------------------|--|---|
| 1          | Outwash                    | Stratified sand and gravel   | Most wells yield over 10 gal./min. Water is generally satisfactory for domestic use but may contain iron in excess of 0.3 mg/L                      |
| 2          | Lakebed                    | Stratified and sorted layers of fine sand and silt with some clay. Occasional local lenses of gravel | Well yields range from 3 gal./min to 100 gal./min. Water quality is suitable for most uses. Few records are available                               |
| 3          | Moraine                    | Poorly sorted glacial till, locally contains sand and gravel layers and large boulders               | Important aquifer. Well yields range from 5 gal./min to 50 gal./min. High concentrations of iron can be expected in water from most wells           |
| 4          | Ground moraine             | Predominantly till, but scattered areas of stratified sand and gravel are present                    | Not an important source of water. Iron concentrations may be in excess of 0.3 mg/L  |
| 5          | Swamp deposit and alluvium | Silt, muck and peat; may include some stratified sand and gravel in low areas                        | No records available. Where these deposits occur along streams they may yield enough water for a small household supply                             |
| 6          | Bedrock                    | Sandstone, igneous and metamorphic rocks   | Availability of water from bedrock is discussed in the section on bedrock. Some areas shown as bedrock may contain a thin cover of glacial material |

0 1 2 MILES  
0 1 2 3 KILOMETERS