



GROUNDWATER SYSTEMS IN WATSON LAKE

There are three mapped aquifers in the Town of Watson Lake and all three are connected to Watson Lake itself. The Glaciofluvial Aquifer and the Deltaic Package Aquifer (both described below) are also connected to each other. All three mapped aquifers are potentially vulnerable to contamination because only a permeable layer of material lies between the water table and the surface. Till and bedrock in the Watson Lake area may also act as aquifers locally.

Aquifers are geological units that store groundwater and allow it to flow relatively easily. Aquifers supply groundwater for drinking and other uses. Groundwater from aquifers may be accessed at surface through springs and wells.



The Fan Aquifer is an unconfined sand and gravel aquifer located along the northern edge of Watson Lake in the vicinity of the airport.



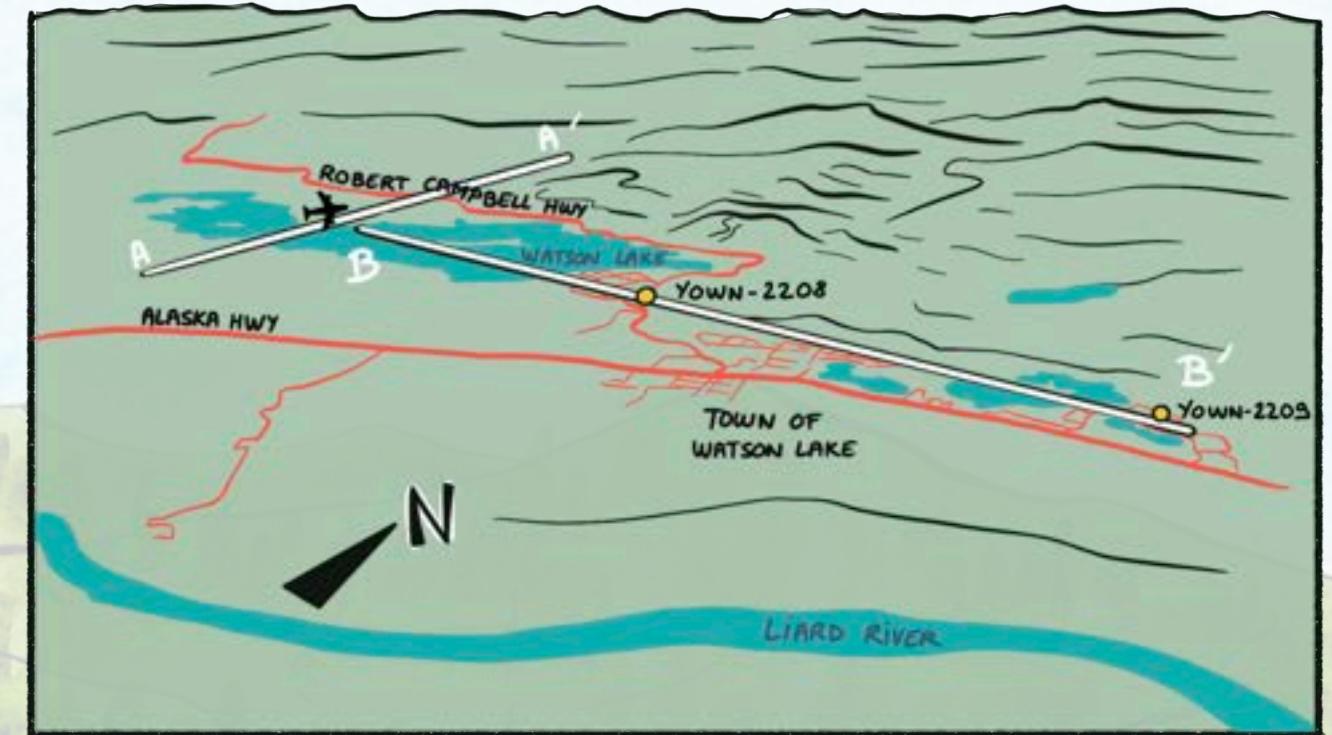
The Glaciofluvial Aquifer is an unconfined sand and gravel aquifer located throughout the bedrock valley southeast of Watson Lake.



The Deltaic Package Aquifer is a partially confined sand and gravel aquifer that underlies the Glaciofluvial Aquifer.

The Watson Lake Aquitard underlies the Deltaic Package Aquifer and is composed of clay and silt with some fine sand. These materials were left by a glacial lake that formed in the area.

Aquitards also contain groundwater but they don't allow it to flow very easily, so aquitards are not used as groundwater supplies. Aquitards protect underlying aquifers from contaminants flowing downwards from the surface.



Imagine that we cut slices into the map along the white lines.

The block diagram below shows what we would see at depth along these sections.

