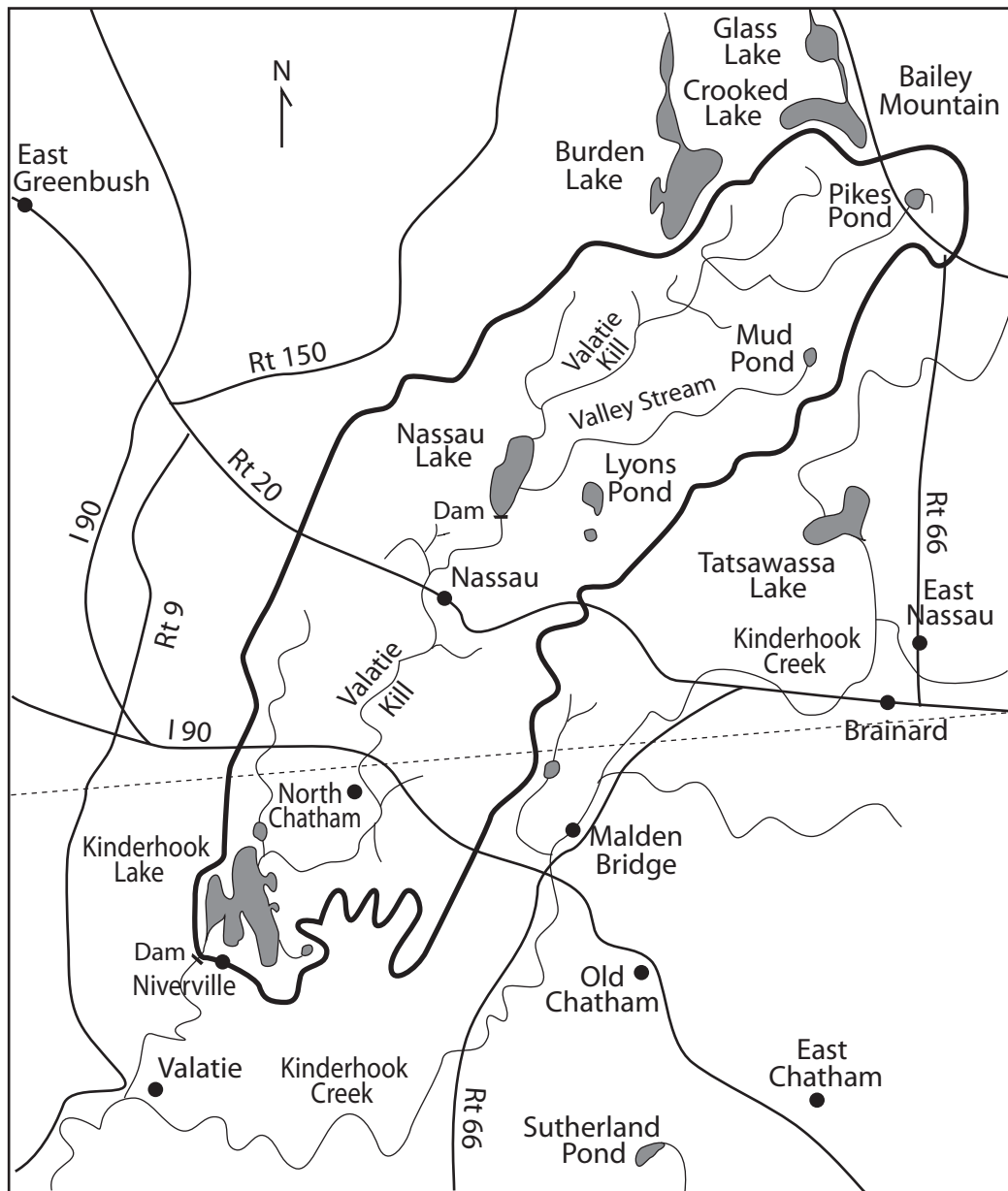


## Kinderhook Lake Watershed



Kinderhook Lake is fed by a 41-square-mile watershed that extends as far north as the southern edge of Crooked Lake. North of Nassau Lake, there are a few farms and residences but it is mostly swampland. Between Nassau Lake and North Chatham, the creek flows through a rural residential area but there are few residences directly on the stream. The area around North Chatham is predominantly farmland with cattle and horse farms; a large cattle-farm is also located at the south-east corner of the lake.

Since Nassau Lake has a heavy growth of aquatic weeds in the Spring which die off in the Summer, water entering Kinderhook Lake in the Valatie Kill in June and July contains sufficient phosphorus to support excessive algae growth. Although phosphorus leaving Nassau Lake in the Valatie Kill is primarily as leaf fragments, when it reaches Kinderhook Lake it is primarily as free orthophosphate. Since the aluminum in alum binds orthophosphate as aluminum phosphate, alum solution is being added to the stream throughout the summer with a calibrated pump in 2006 in order to bind phosphorus before it enters the lake.