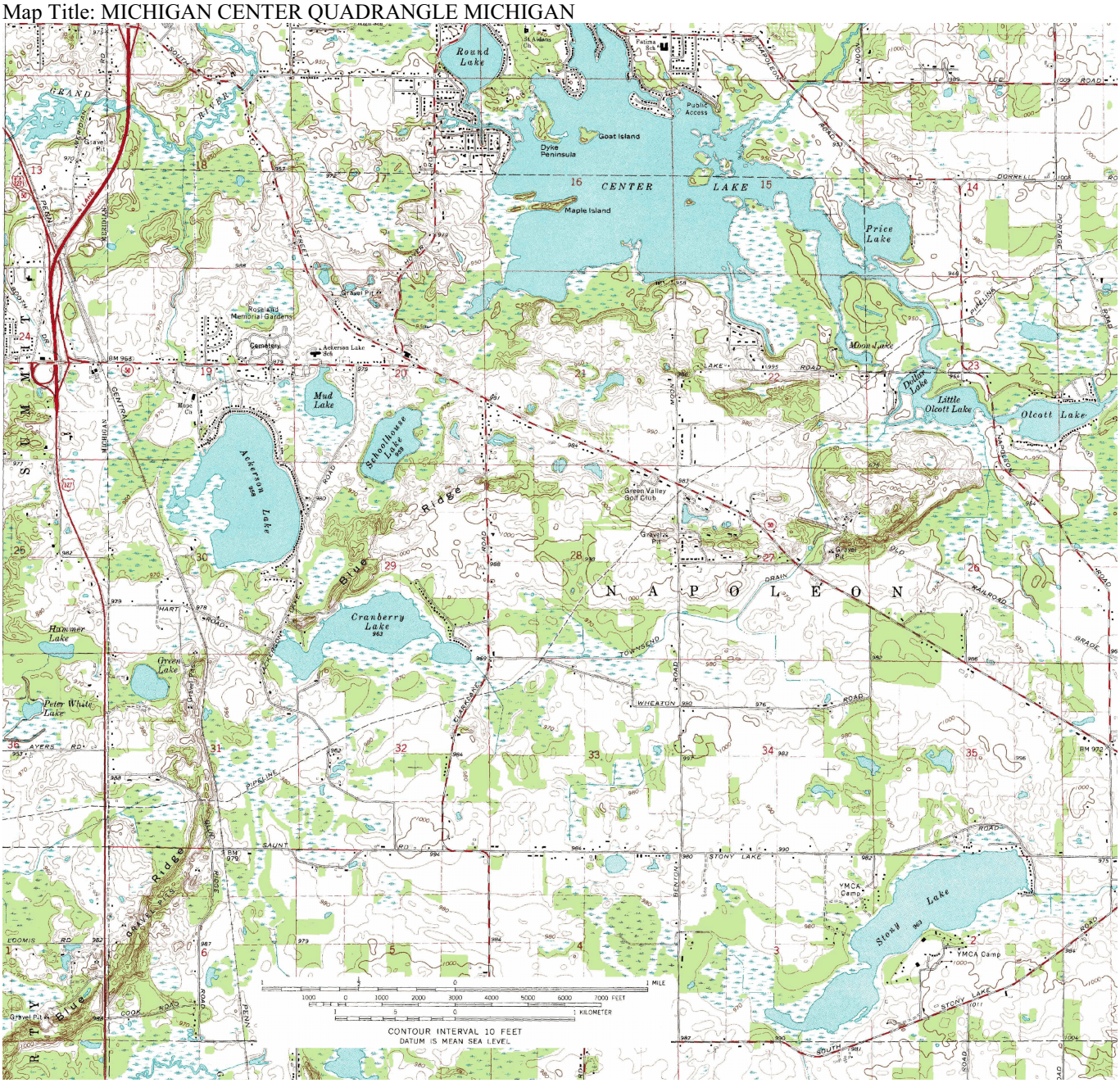
LAB EXERCISE 18 - MAP INTERPRETATIONS: GROUNDWATER / CONTINENTAL GLACIATION

Name:	Course ID:

For each of the maps below please answer the following questions and complete the worksheet!

Map Title: MICHIGAN CENTER QUADRANGLE MICHIGAN



Calculated Map Scale: Contour interval:

Relief of Map (underline your answer):

What is the most likely rock-type underlying the area depicted on the map? Give evidence for your conclusion:

There is a lot of surface water on the map. The elevation of the surface of the lakes coincides with the elevation of the groundwater level in the same area. For each lake / pond determine the elevation of the water surface, either by reading it directly from the lake when provided or by estimating the elevation as close as possible from the contour lines. Record each lake elevation with big black letters on the map. In which direction is the groundwater flowing? Indicate the movement with arrows on the map.

The map depicts the remnants of a continental glaciation during the last ice age. Use a colored pencil and identify as many glaciation features as possible by shading and labeling them on the map (e.g., Drumlins? Eskers? Moraines, etc.)

Why are there so many lakes in the area? Please answer in 5 sentences or less: