

Name: \_\_\_\_\_

## Glacial Landforms

Each station has one or more maps. Examine the maps to answer all of the questions. You may do the stations in any order, though some questions about the last map refer you to the set of maps listed before it.

Underlined blanks in these instructions are spaces for the instructor to initial.

### 1. Palmyra Quadrangle

1. This landscape is sprinkled with elongated hills.
  - a. What are they called?
  - b. What is their composition?
  - c. How were they formed?
2. Which direction did the ice flow?
3. Can you identify any other features on this map that may be of glacial origin?

### 2. Limestone Area Maps

Note that Trafton Lake is not shown on either of these maps, although it is within the map area.

#### *Limestone Significant Sand and Gravel Aquifers*

1. Where on the map is the highest mapped groundwater yield?
2. Groundwater drainage divides are indicated on this map by broad red lines. Based on these divides and the direction that groundwater flows here, in what region could surface contamination pose a threat to our water supply

#### *Limestone Surficial Materials*

3. What type of sediment is found at the sample sites near school and around town?
4. The old sewage plant is approximately where Long Road crosses Limestone Stream. How deep beneath the surface is the bedrock there?

### 3. Mountainous areas

#### *Mount Whitney Quadrangle*

1. Point out a U-Shaped valley, an arête, and three paternoster lakes. \_\_\_\_\_

#### *Mount Katahdin Quadrangle*

2. Point out a U-Shaped valley, an arête, and a cirque. \_\_\_\_\_

### 4. Some Eskers

#### *Passadumkeag Quadrangle*

What is the name of the prominent esker on this map?

#### *Houlton North and Twin Brook Quadrangles*

These two maps depict adjacent areas. The left edge of the Houlton North map adjoins the right edge of the Twin Brook map.

I spent several hours driving around this area in a vain search for the “Littleton Esker,” purportedly close to the West of U.S. Highway 1 just north of the Houlton-Littleton line

1. Point this esker out to me, please, so I’ll know where to look for it the next time I’m in the Houlton area. \_\_\_\_\_
2. I think there’s another, smaller esker near the Littleton Esker. Point it out to me, and tell me some evidence that it is an esker. \_\_\_\_\_

#### *Echo Lake Quadrangle*

3. I think there is a small esker near the center of this map. Point it out to me, and cite some evidence that it is an esker. \_\_\_\_\_

### 5. Maine Surficial Geology

1. Try to find the eskers from the previous maps. \_\_\_\_\_
2. Where is the closest uncovered bedrock to us here in Limestone?
3. What glacial features are near your home town?