

DESCRIPTION OF THE MAP

This map is simplified from a detailed geologic map of Anchorage and vicinity currently being prepared. Deposits are grouped into four map units so that the map is easier to read than the standard geologic map. Age relations are not distinguished, and deposits with similar characteristics are combined into single map units; features of the standard geologic map that are essential to a general understanding of the geology remain unaltered. Additional maps to follow will relate the geology to specific uses and to hydrology of 1959.

DESCRIPTION OF MAP UNITS

- COARSE-GRAINED SURFICIAL DEPOSITS
Alluvium of the Anchorage plain. Gravel and sand, generally well sorted and well sorted. Cherty gravel is common in the lower part of the deposit. The sand grades imperceptibly into material mapped as unit 2. Commonly contains fragments of shell and other debris. Similar to silty material mapped as unit 2, but in multiple areas much of this unit has been removed.

MIXED COARSE- AND FINE-GRAINED SURFICIAL DEPOSITS

- Mixed coarse- and fine-grained surficial deposits. Mountain deposits, generally in long ridges marking the margins of former glaciers. The topography on the Elmendorf Moraine in the northern part of the map area is usually hump-backed, whereas the topography north of the mountains and along the mountain front is more subdued. Cherty till, including diamicton and poorly sorted gravel, better sorted gravel and sand may be present locally. The deposit is not everywhere clearly distinguishable from material mapped as unit 2.

FINE-GRAINED SURFICIAL DEPOSITS

- Fine-grained surficial deposits. Part. Many relatively low lying areas are covered by a few feet of peat. This overprint pattern is used in conjunction with other map units where the peat is probably more than 2 feet thick. Peat commonly ranges from 1 to 10 feet thick and in places is as much as 30 feet thick. Peat deposits (1) may occur at the base of the peat. Peat commonly formed or buried by fill during construction and urban development, but such areas are not shown on the map.

GLACIAL AND POST-GLACIAL DEPOSITS

- Lake and pond sediments. Lowland deposits, exposed in few places, are chiefly silt and clay, with some sand, but are considerably thinner than overlying peat deposits. Near the mountains, cherty silt and clay with some sand, and sand and gravel accumulated in former ice-dammed lakes may be present over a few feet thick.

GLACIAL TILL

- Glacial till. Cherty gravel and sand, but includes some silt- and clay-size material. Mapped only where unusually high concentrations of very fine sand and silt were observed.

GLACIAL SAND AND GRAVEL

- Glacial sand and gravel. Mapped only where unusually high concentrations of very fine sand and silt were observed.

GLACIAL SAND AND GRAVEL WITH SILT AND CLAY

- Glacial sand and gravel with silt and clay. Mapped only where unusually high concentrations of very fine sand and silt were observed.

GLACIAL SAND AND GRAVEL WITH SILT AND CLAY AND SAND AND GRAVEL

- Glacial sand and gravel with silt and clay and sand and gravel. Mapped only where unusually high concentrations of very fine sand and silt were observed.

GLACIAL SAND AND GRAVEL WITH SILT AND CLAY AND SAND AND GRAVEL WITH SILT AND CLAY

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CONTOUR INTERVAL 20 FEET

BASE FROM U.S. GEOLOGICAL SURVEY, 1962. MODIFIED FROM GEOLGIC MAPS OF ANCHORAGE AND VICINITY, ALASKA, U.S. GEOLOGICAL SURVEY, 1971.

1:250,000 SCALE. 1:250,000 SCALE. 1:250,000 SCALE.

MAP LOCATION. MAP LOCATION. MAP LOCATION.

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