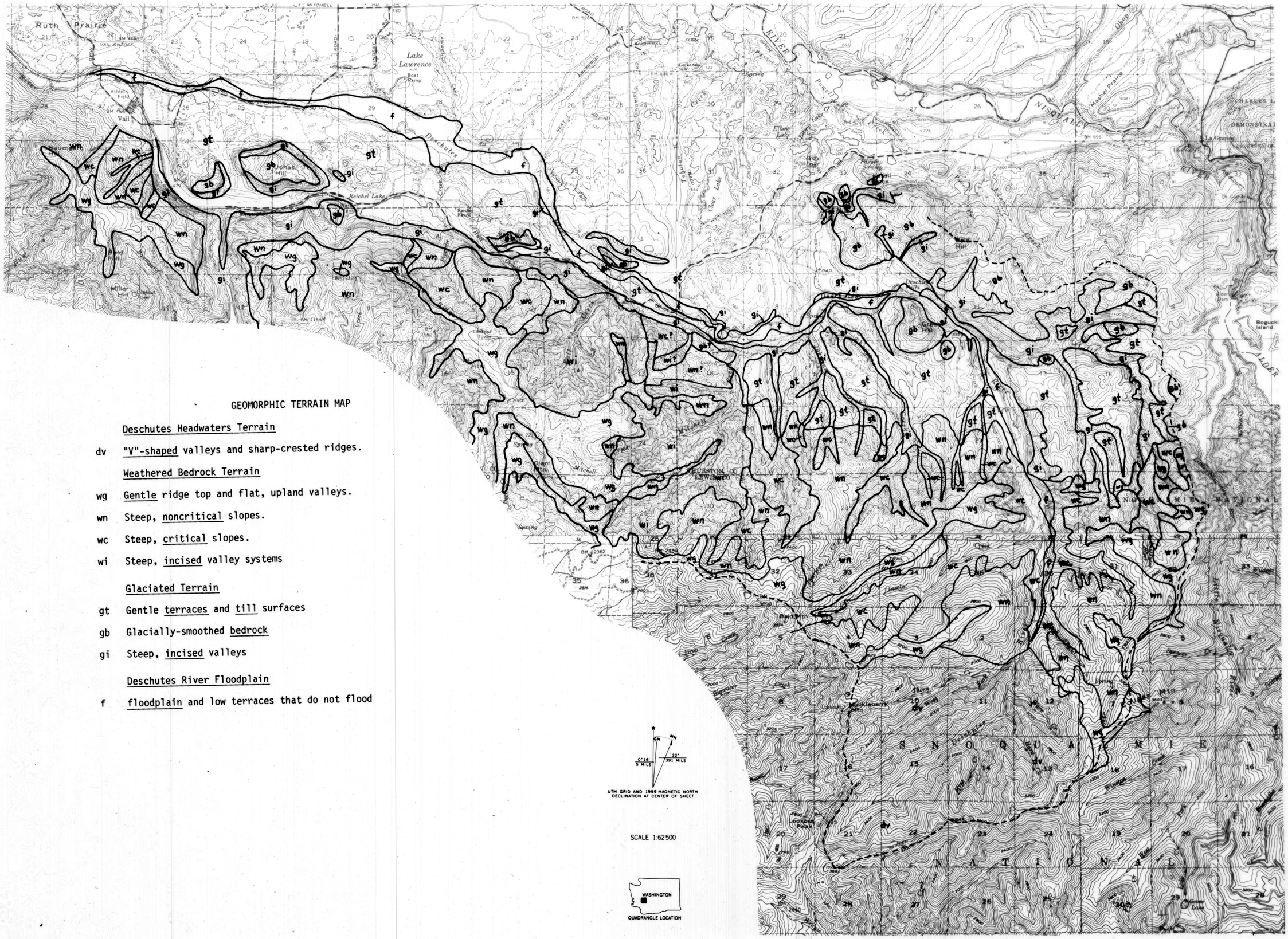


GEOMORPHIC TERRAIN MAP

Deschutes Headwaters Terrain

dv "V"-shaped valleys and sharp-crested ridges.

Weathered Bedrock Terrain

wg Gentle ridge top and flat, upland valleys.

wn Steep, noncritical slopes.

wc Steep, critical slopes.

wi Steep, incised valley systems

Glaciated Terrain

gt Gentle terraces and till surfaces

gb Glacially-smoothed bedrock

gi Steep, incised valleys

Deschutes River Floodplain

f floodplain and low terraces that do not flood

FOREST SLOPE STABILITY PILOT PROJECT,
UPPER DESCHUTES RIVER, WASHINGTON

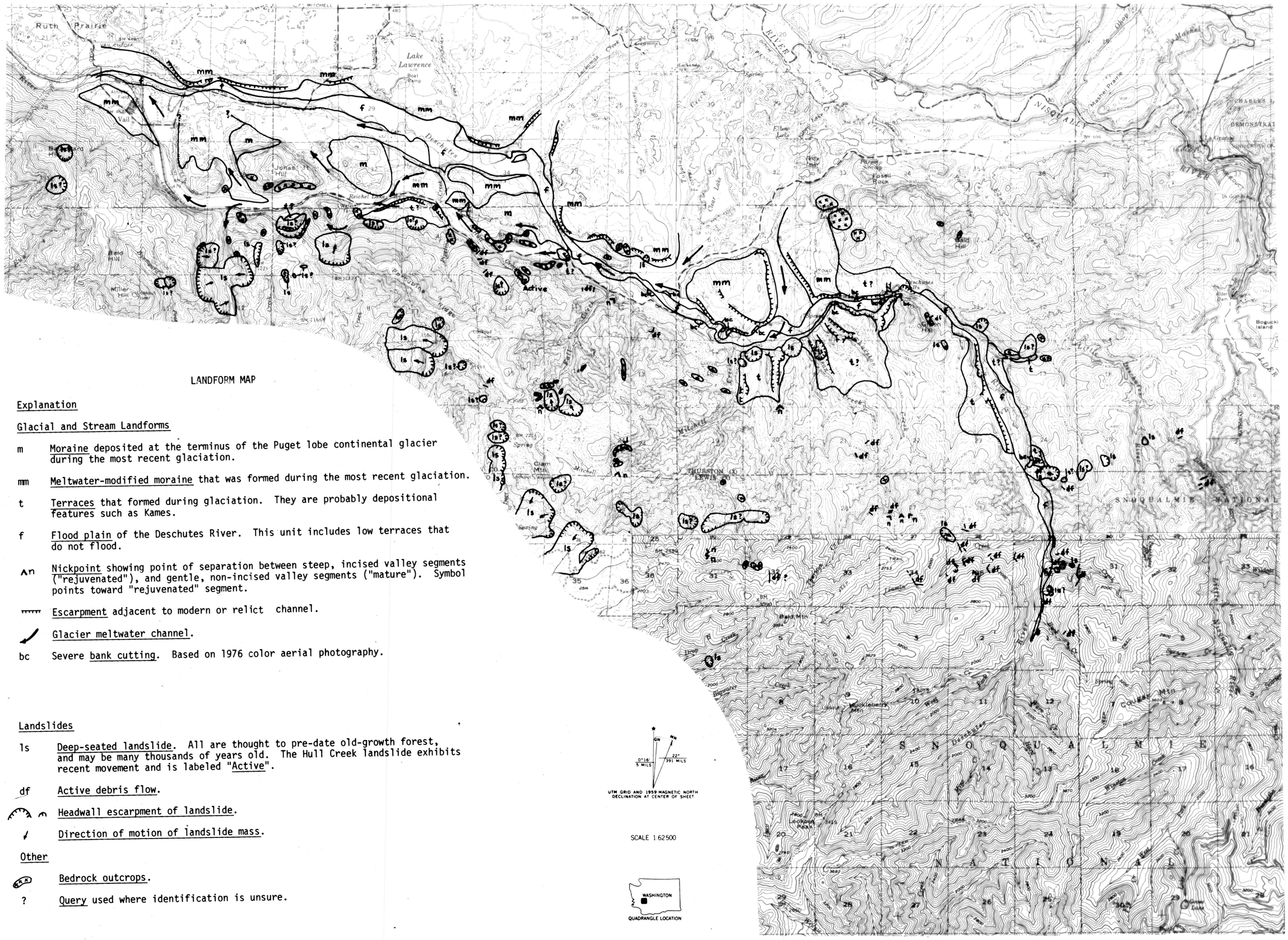
by

Gerald W. Thorsen and Kurt L. Othberg

Washington Department of Natural Resources
Division of Geology and Earth Resources

1978

Plate 3



LANDFORM MAP

Explanation

Glacial and Stream Landforms

m — Moraine deposited at the terminus of the Puget lobe continental glacier during the most recent glaciation.

mm — Meltwater-modified moraine that was formed during the most recent glaciation.

t — Terraces that formed during glaciation. They are probably depositional features such as Kames.

f — Flood plain of the Deschutes River. This unit includes low terraces that do not flood.

An — Nickpoint showing point of separation between steep, incised valley segments ("rejuvenated"), and gentle, non-incised valley segments ("mature"). Symbol points toward "rejuvenated" segment.

Escarpment adjacent to modern or relict channel.

Glacier meltwater channel.

bc — Severe bank cutting. Based on 1976 color aerial photography.

Landslides

ls — Deep-seated landslide. All are thought to pre-date old-growth forest, and may be many thousands of years old. The Hull Creek landslide exhibits recent movement and is labeled "Active".

df — Active debris flow.

Headwall escarpment of landslide.

Direction of motion of landslide mass.

Other

Bedrock outcrops.

? — Query used where identification is unsure.

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Plate 4