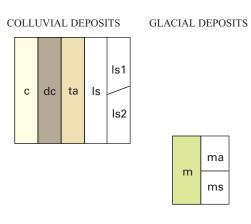
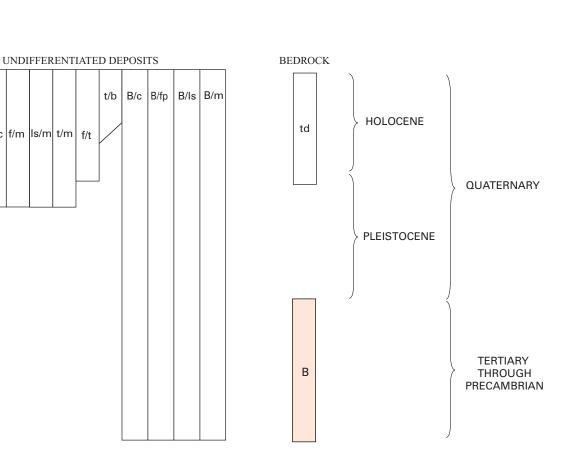


CORRELATION OF MAP UNITS







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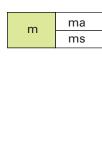
Colluvial deposits (upper Holocene to uppermost Pleistocene)—Unconsolidated soil and sand- to cobble-size debris derived from valley walls. Processes include rockfall, sheetwash, and creep. Colluvium is discontinuous on the valley sides and produces irregular-shaped, hummocky surfaces. Growth has been continuous since glacial retreat. Thickness 1–5 m

COLLUVIAL DEPOSITS

Debris cone deposits (Holocene to uppermost Pleistocene)—Unconsolidated, poorly sorted silt, sand, and gravel with angular cobbles and boulders derived from source gullies. Fluvial and colluvial processes predominate. Deposit volume increases through time due to freeze-thaw weathering processes. Seasonal thunderstorm events result in rock falls, debris flows, and sheet wash onto the cone. Debris cones are fan shaped in map view, have slopes greater than 20°, and are found at the mouth of steep bedrock gullies. Growth has been continuous since glacial retreat. Thickness 1–10 m

Talus deposits (upper Holocene to uppermost Pleistocene)—Unconsolidated, poorly sorted, angular, cobble-size stones and blocks derived from rock falls above the talus field. Deposits blanket topography on steep valley slopes at the angle of repose (33°–35°). Growth has been continuous since glacial retreat. Thickness 1–5 m

GLACIAL DEPOSITS

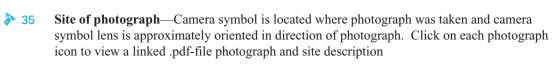


Glacial till deposits (upper Pleistocene)—Unconsolidated to compacted, poorly sorted, clayto boulder-size sediment derived from ablation of glaciers at ice margins. Form hummocky end and lateral moraine ridges. Best displayed at north end of Durango and near Silverton. Deposits represent the last vestiges of glaciers between 12 and 15 ka. Carrara and others (1984) and Maher (1972) indicated ice-free conditions existed as early as 15 ka, but recent data indicate ice-free conditions at around 12 ka (Gillam, 1998). Till deposits north of Durango are subdivided into two relative ages. Animas City moraines (ma) are 12–35 ka and Spring Creek moraines (ms) are 85–160 ka (Gillam, 1998; Carroll and others, 1999). Thickness 1–20 m

BEDROCK

Bedrock (Tertiary to Precambrian)-Bedrock forms the exposed valley walls and occasional knobs on the valley floor with thin to no soil cover. Where soil cover is thin, vegetation cover

may be present. Bedrock consists of Tertiary intermediate-composition lava flows, volcaniclastic sedimentary rocks, mudflow deposits, granitic intrusions, and Precambrian gneiss and schist in the headwaters of Cunningham Creek. The age of most igneous and volcaniclastic rocks is about 27 Ma (Steven and others, 1974; Yager and Bove, 2002) **Contact**—Dashed lines are contacts between geomorphic features in a map unit



Geochemical profile—Pre-mining silts; Eureka to Maggie Gulch reach. Click on the roman numeral to view a linked .pdf-file photograph and related geochemical profile

Geochemical profile—Circa 1885 terrace sediments. Click on the roman numeral to view a linked .pdf-file photograph and related geochemical profile

