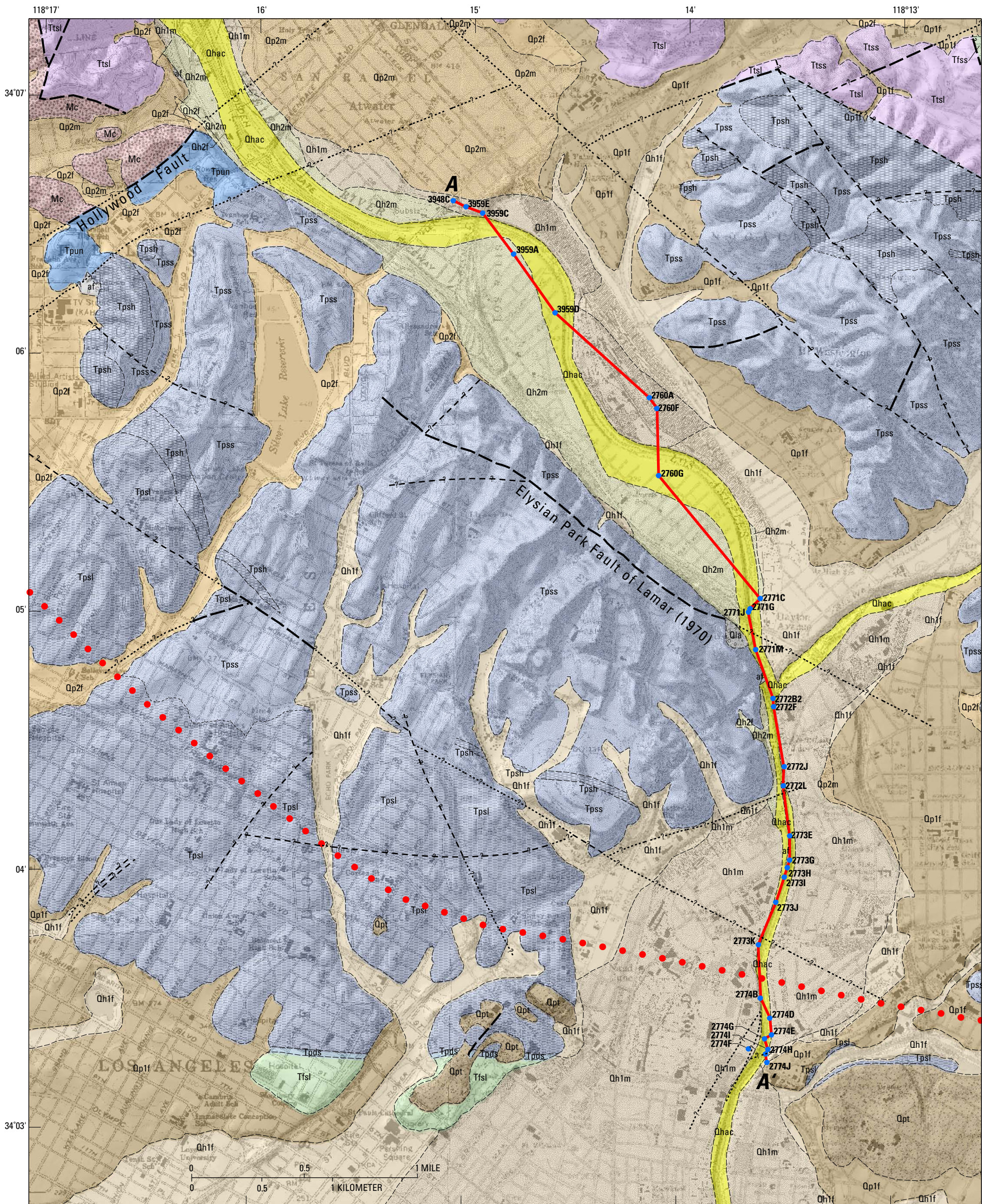




Geology modified from Yerkes and others (1977) and Nelson and others (1919)

EXPLANATION

Historical Deposits

- af Artificial fill
- Qhac Channel deposits of the Los Angeles River and Arroyo Seco

Upper Holocene Deposits

- Qh2m Sandy river flood plain, colluvium and alluvial fan deposits
- Qh2f Silt- or clay-dominant river flood plain, colluvium and alluvial fan deposits

Lower to Middle or Undifferentiated Holocene Deposits

- Qla Landslide debris
- Qh1m Sandy alluvium and colluvium
- Qh1f Silt or clay dominant alluvium and colluvium

Upper Pleistocene Deposits

- Qp2m Sandy alluvium and colluvium
- Qp2f Silt or clay dominant alluvium and colluvium

Lower to Middle Pleistocene Deposits

- Qp1f Silt- or clay-dominant alluvium and colluvium
- Qpt River terrace deposits with original geomorphic surface highly dissected; slightly consolidated gravels, sandy and clayey with cobbles and boulders

Pliocene Fernando Formation of Lamar (1970)

- Tfsl Siltstone; massive, soft with local layers of hard pebble conglomerate; rare hard calcareous beds
- Tfss Sandstone; very fine grained, massive, very soft and micaceous

Upper Miocene Puente Formation of Lamar (1970)

- Tpds Primarily diatomaceous shale and diatomite; soft, punky, thinly laminated
- Tpsl Siltstone and very fine grained sandstone; poorly cemented
- Tpsh Shale and siltstone; well bedded in layers up to .15 inches thick, fissile, siliceous, very hard; some interbedded sandstone and limestone
- Tpss Sandstone; hard and well cemented with very hard calcareous concretions; local thin interbeds of shale and siltstone
- Tpun Undivided sandstone and shale; also contains conglomerate of angular fragments up to 2 inches of slate and quartz in mudstone or sandstone

Middle Miocene Topanga Formation of Lamar (1970)

- Ttsl Siltstone, sandstone and hard siliceous shale; commonly very hard and blocky; some massive limestone, tuff, and tuffaceous sandstone
- Ttss Sandstone; commonly well cemented, with layers of hard calcareous sandstone and pebble conglomerate

Cretaceous or Jurassic Basement Complex

- Mc Feliz Granodiorite of Lamar (1970); deeply weathered and fairly soft

- Contact, queried where uncertain
- Contact, approx. located
- Fault, concealed
- Fault, queried where uncertain
- Fault, queried where uncertain, concealed
- Fault, approximately located
- Approx. location of surface projection of modeled Upper Elysian Park Thrust (Oskin and others, 2000).

2774D

Well or borehole used in construction of section A-A', and Los Angeles County well number

A-A' Line of geologic section (figure 4)

Figure 3. Surface geology, geologic units, and structures of the study area.