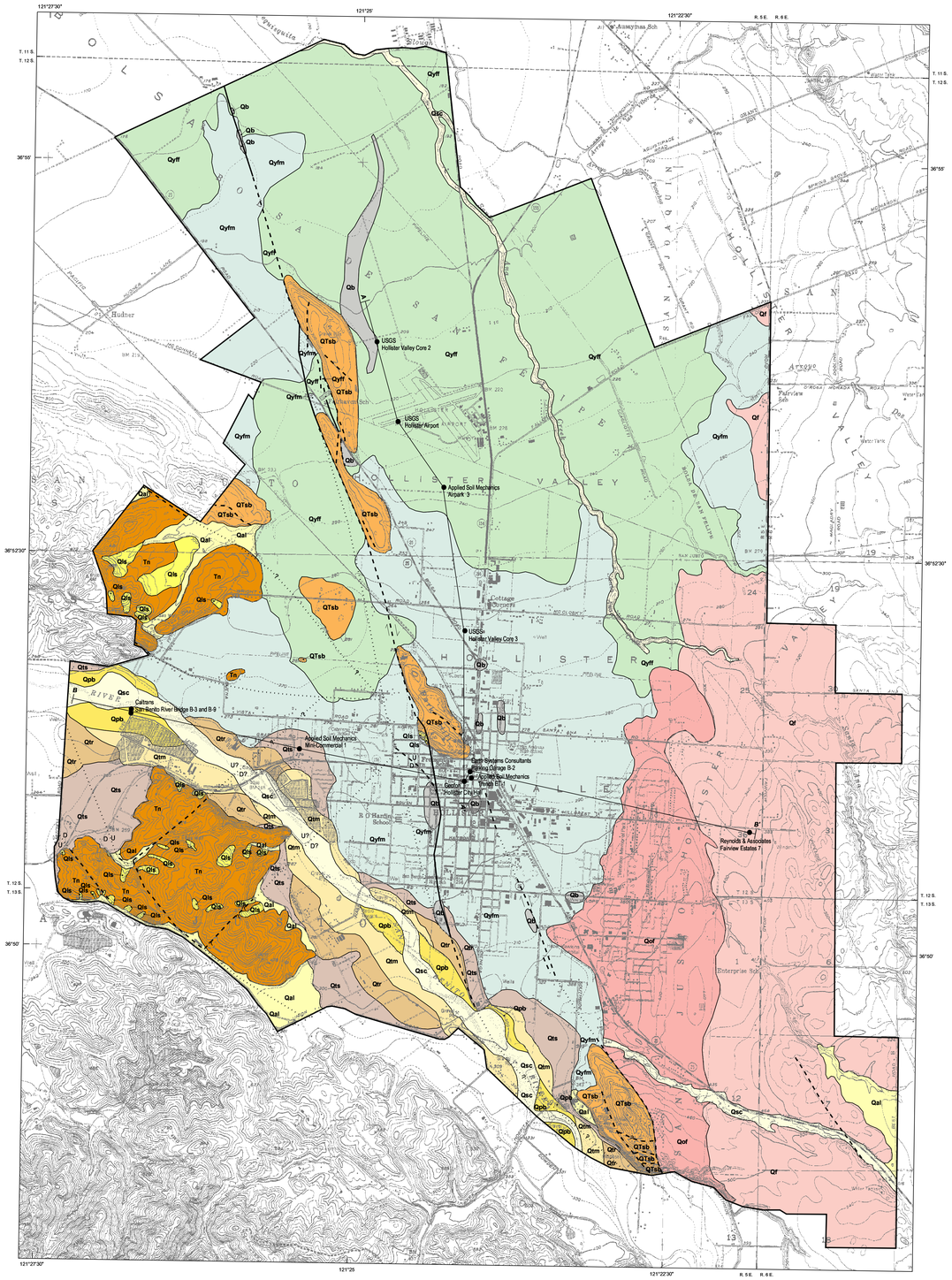

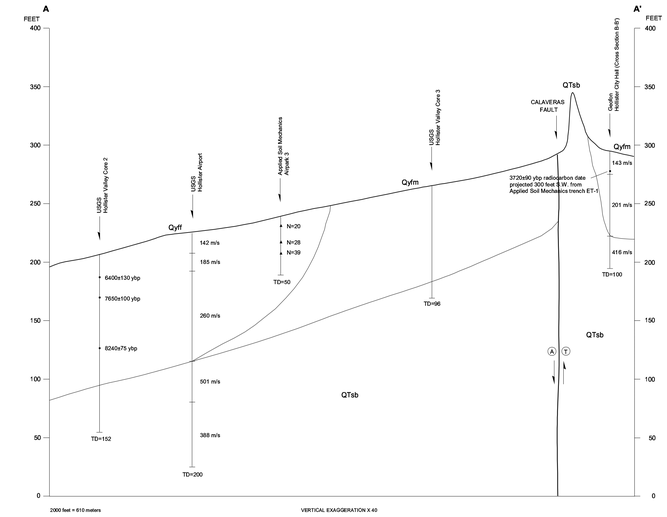

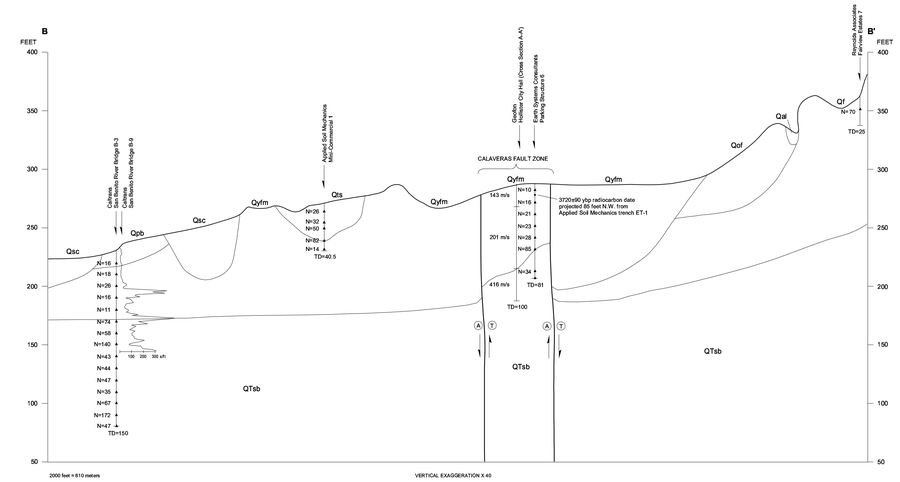

Base scanned from U.S. Geological Survey 1:24,000 topographic quadrangles San Felipe, Three Sisters, Tres Pinos, 1971; Hollister, 1993

Original map projection: California Coordinate System, zone 4 (Lambert Conformal Conic). Converted to Albers projection after scanning

N

SCALE 1:24000

1 MILE — 4000 FEET — 1 KILOMETER

CONTOUR INTERVAL 20 FEET
SUPPLEMENTARY CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929

MAP LOCATION

Geology compiled from Dibblee and Rogers (1975), CDMG (1982a, 1982b, 1986), Dibblee (1979), Rogers (1993), and Majmundar (1994a, 1994b) with modifications from soil mapping (Ingra, 1969) and field work by Rosenberg (1991, 1997)

INDEX TO USGS 7.5-MINUTE QUADRANGLES

CORRELATION OF MAP UNITS

Qal, Qpb, Qtr, Qyff, Qb, Qsc, Qtm, Qts, Qyfm	Holocene	Qls	QUATERNARY
Qof	Pleistocene		
Qf			
QTsb	Pleistocene-Pliocene		QUATERNARY-TERTIARY
Tn	Pliocene		TERTIARY

DESCRIPTION OF MAP UNITS

Qal **Alluvial deposits, undivided (Holocene)** —Unconsolidated, heterogeneous, moderately sorted silt and sand with discontinuous lenses of clay and silty clay

Qsc **Stream channel deposits (Holocene)** —Unconsolidated, well-sorted sand, gravel, and cobbles within in the beds of the larger streams

Qpb **Point bar deposits (Holocene)** —Unconsolidated moderately sorted, fine-grained sand and silt underlain by coarse sand and gravel

Qb **Basin deposits (Holocene)**—Unconsolidated, plastic clay and silty clay containing much organic material; locally contains interbedded thin layers of silt and silty sand

Qtm **Metz terrace (Holocene)** —Unconsolidated silty sand underlain by layers of coarse sand and gravel. Capped by minimally developed soils

Qtr **Reiff terrace (Holocene)**—Unconsolidated silty sand and silt with lenses of gravelly sand. Capped by minimally developed soils

Qts **Serrano terrace (Holocene)**—Unconsolidated sandy silt. Capped by undeveloped to minimally developed soils

Qyff **Younger flood-plain deposits, fine-textured (Holocene)** —Unconsolidated silty clay and clayey silt with lenses of sandy silt and clean sand

Qyfm **Younger flood-plain deposits, medium-textured (Holocene)** —Unconsolidated sandy silt and silty clay with lenses of well-sorted sand

Qls **Landslide deposits (Quaternary)** —Rotational soil slides, earthflow, and debris flow deposits

Qof **Older flood-plain deposits (Pleistocene)** —Poorly consolidated, moderately sorted gravel, sand and silt with Monterey Shale fragments. Capped by maximally developed soils

Qf **Alluvial fan deposits (Pleistocene)** —Moderately consolidated, moderately to poorly sorted gravel, sand and silt. Capped by maximally developed soils

QTsb **San Benito Gravels (Pleistocene-Pliocene)** —Poorly consolidated, moderately to well-sorted sand and gravel with silt; commonly crossbedded

Tn **Nonmarine sedimentary rocks of Dibblee (1975) (Pliocene)** —Greenish-gray to rarely reddish claystone, siltstone, and interbedded friable buff-gray sandstone

EXPLANATION OF MAP SYMBOLS

Contact, approximately located

Fault, well-defined —relative lateral displacement indicated by half arrows. On cross section, "A" denotes movement away from viewer, "T" denotes movement toward viewer

Fault, approximately located —relative vertical displacement indicated by U/D, queried where existence uncertain

Fault, concealed —relative vertical displacement indicated by U/D, queried where existence uncertain

A——A' **Line of geologic cross section**

Approximate boundary of study area

Borehole depicted in cross section —N denotes field blow counts (triangle), m/s denotes downhole shear wave velocity, small dot denotes radiocarbon date, TD denotes total depth of boring

2-1/4" diameter cone penetration log depicted in cross section —driving rate in seconds per foot using a No. 3 McKiernan-Terry air hammer at 115 psi

QUATERNARY GEOLOGIC MAP

LIQUEFACTION SUSCEPTIBILITY OF THE HOLLISTER AREA, SAN BENITO COUNTY, CALIFORNIA

By

Lewis I. Rosenberg

1998

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