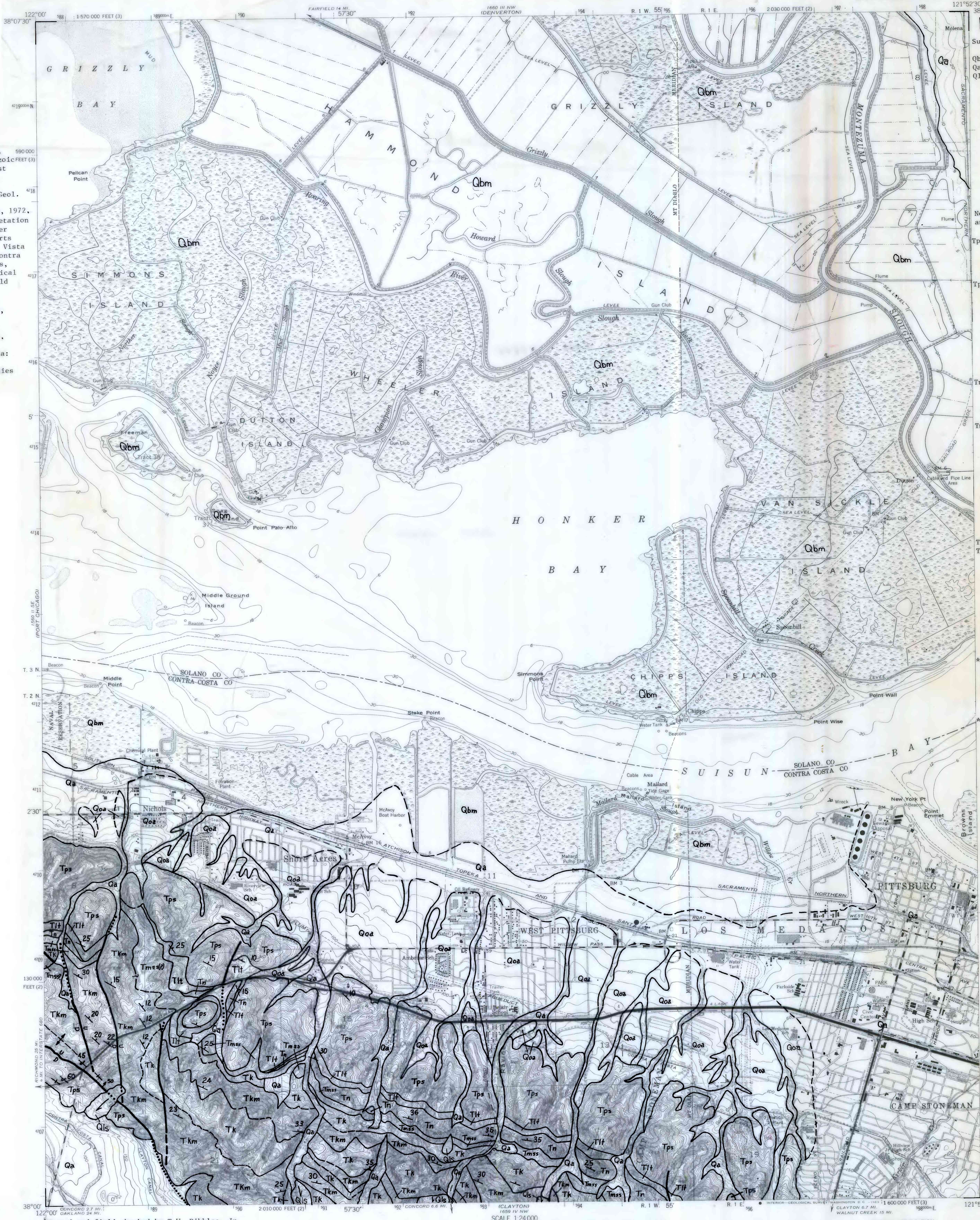


HONKER BAY QUADRANGLE
CALIFORNIA
7.5 MINUTE SERIES (TOPOGRAPHIC)
SW/4 PITTSBURG 15' QUADRANGLE

UNITED STATES GEOLOGICAL SURVEY

References cited:

Sarna-Wojcicki, A.M., 1976, 590 000 Correlation of Late Cenozoic (P) Tuffs in the Central Coast Ranges of California by Means of Trace-and-Minor Element Chemistry: U.S. Geol. Survey Prof. Paper 972.
Sims, J.D. and T.H. Nilsen, 1972, Preliminary Photointerpretation Map of Landslide and other Surficial Deposits of Parts of the Pittsburg and Rio Vista 15-minute quadrangles, Contra Costa and Solano Counties, California: U.S. Geological Survey Miscellaneous Field Studies Map MF-322.
Sims, J.D. Fox, K.F., Jr., Bartow, J.A., and Helley, E.J., 1973, Preliminary geologic map of Solano County and parts of Napa, Contra Costa, Marin and Yolo Counties, California: U.S. Geol. Survey Miscellaneous Field Studies Map 484.



Qbm Qa Qls
Surficial deposits
Qbm; bay mud
Qa; alluvium
Qls; landslide debris*
Unconformity
Qoa
Older alluvium
Unconformity
Tps
Tpt
Nonmarine sedimentary and volcanic rocks
Tps; weakly indurated clay, sand and pebble gravel, (locally called Tehama Formation)
Tpt; Lawlor Tuff, **
pumiceous tuff breccia
Unconformity
Tn
Tms
Neroly Formation, nonmarine blue to gray pebbly sandstone
Tms; marine sandstone, tan, arkosic, pebbly
Unconformity
Tk
Tk
Kreyenhagen Formation
Tk; clayshale
Tk; Markley Sandstone Member, tan, arkosic sandstone, minor interbedded shale

* Only a few landslide deposits have been mapped. See J.D. Sims and T.H. Nilsen, (1972) for a more complete map of landslide deposits.
** dated by Sarna-Wojcicki, (1976), as 4.5 ± m.y.

Contact
dashed where gradational or approximately located
Fault
dashed where inferred; dotted where concealed; queried where existence doubtful; double arrows indicate strike-slip movement; U - upthrown side D - downthrown side relatively
anticline
syncline
Axis of fold arrow on axis indicates direction of plunge
inclined
vertical
overturned
Strike and dip of strata

Maped and field checked by T.W. Dibblee, Jr., (1977); modified from J.D. Sims and others, (1973), and H.D. Sonneman and J.R. Switzer, Jr., (unpublished).

SCALE 1:24,000
1 000 2000 3000 4000 5000 6000 7000 FEET
1 KILOMETER

CONTOUR INTERVAL 10 FEET
DOTTED LINES REPRESENT HALF-INTERVAL CONTOURS

ROAD CLASSIFICATION
Heavy duty
Medium duty
Light duty
Unimproved dirt
State Route

PRELIMINARY GEOLOGIC MAP OF THE HONKER BAY QUADRANGLE, SOLANO AND CONTRA COSTA COUNTIES CALIFORNIA

by

Thomas W. Dibblee, Jr.

This map is preliminary and has not been reviewed for conformity with U. S. Geological Survey editorial standards and stratigraphic nomenclature.