SALTWATER INTRUSION, 1979

EXPLANATION

QUATERNARY DEPOSITS

PURISIMA FORMATION AND OLDER TERTIARY FORMATIONS

GRANITIC BASEMENT

CONTACT– Approximateiy located

FAULT– Dashed where approximately located; queried where uncertain

LINE OF EQUAL CHLORIDE CONCENTRATION, SUMMER 1979– Dashed where approximately located

100 — 100 milligrams per liter in shallow (or 180–foot) aquifer

500 — 500 milligrams per liter in shallow (or 180–foot) aquifer

100 — 100 milligrams per liter in deeper (or 400–foot) aquifer

500 — 500 milligrams per liter in deeper (or 400–foot) aquifer

AREAS OF CHLORIDE CONCENTRATION PRIOR TO 1979 KNOWN TO EXCEED 500 MILLIGRAMS PER LITER

In shallow (180–foot) aquifer during summer of 1944 or 1951

In deeper (400–foot) aquifer during summer of 1959

R1 WELL

SURFACE–WATER DRAINAGE AREAS

P Pajaro River

S Springfield Coastal Terrace

E Elkhorn Slough

M Moro Cojo Slough

T Tembladero Slough

G Gabilan Creek

POTENTIAL FOR STORAGE INTERACTION ALONG SUBAREA BOUNDARIES INDICATED BY CONNECTING ARROWS

Direction of near–surface transfer of ground water

Direction of deeper transfer of ground water

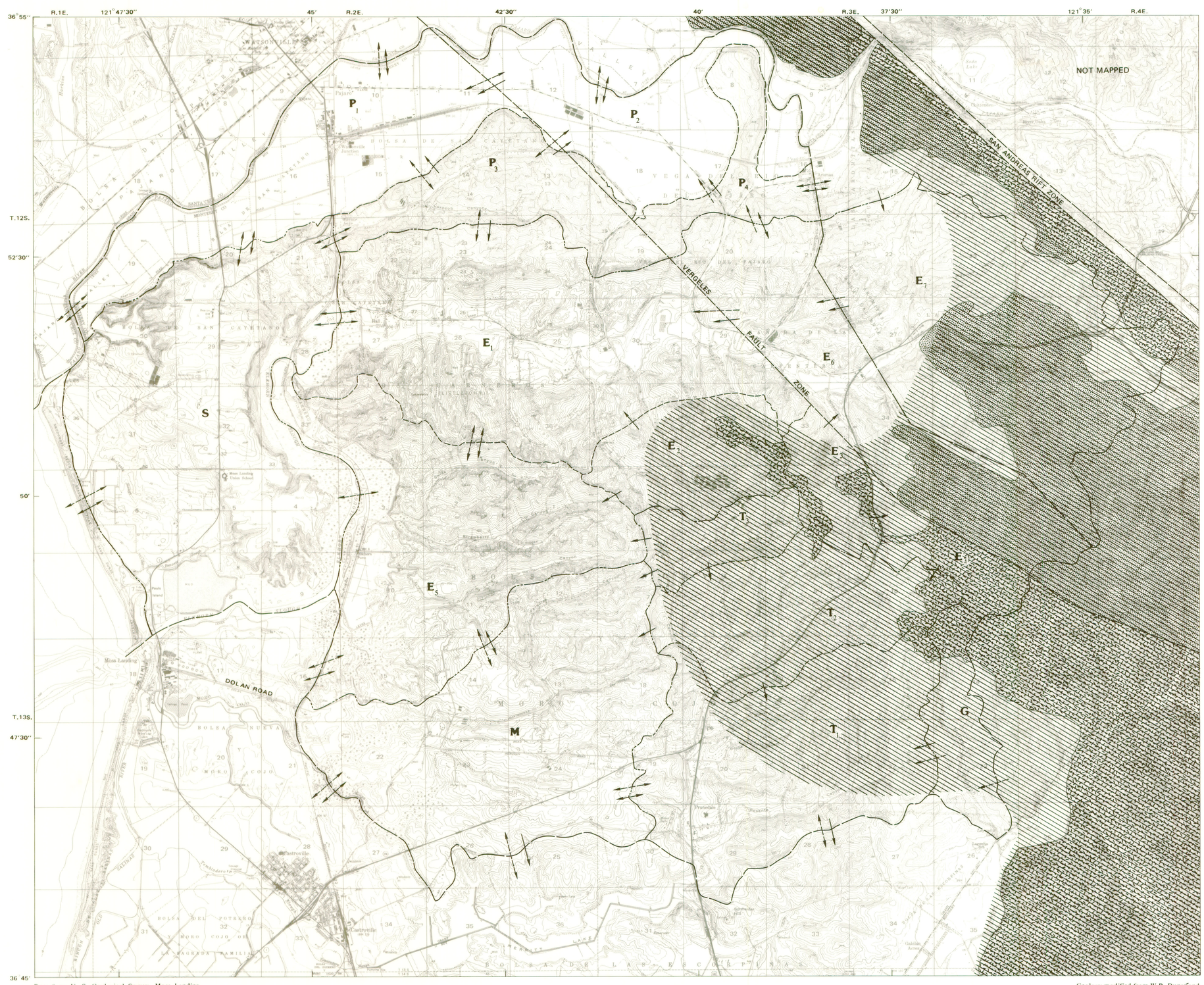
LIMITED STORAGE AREA WITHIN SUBAREAS DUE TO UPLIFTED BASEMENT ROCK

BOUNDARIES

Study area

Drainage area

Ground-water subarea



Base from U. S. Geological Survey, Moss Landing, 1954; Prunedale, 1975; San Juan Bautista, 1955; Chittenden, 1973; Watsonville West, 1954; Watsonville East, 1955, California, 1:24,000

GROUND-WATER SUBAREAS

Geology modified from W.R. Dupre and J.C. Tinsley III (1980); J.C. Clark and J.D. Rietman (1973)

0 1 2 3 4 MILES
0 1 2 3 4 5 6 KILOMETERS

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

MAPS OF NORTH MONTEREY COUNTY, CALIFORNIA, SHOWING SALTWATER INTRUSION, 1979, AND GROUND-WATER SUBAREAS