San Pedro Valley Groundwater Basin

- Groundwater Basin Number: 2-36
- County: San Mateo
- Surface Area: 700 acres (1 square mile)

Basin Boundaries and Hydrology

The San Pedro Groundwater Basin is located in northern San Mateo County along the Pacific Ocean. The basin is about 10 miles south of San Francisco, and 80 miles southeast of the Sacramento Valley. It is bounded by Whiting Ridge on the east, on the west by the Pacific Ocean, on the south by the foothills of San Pedro Mountain, and on the north by the base of Cattle Hill. San Pedro Creek, the Middle Fork and South Fork are the principal streams flowing through the basin and onto the ocean. The topography of the area consists of gentle slopes of moderate elevation, which vary from sea level to 400 feet.

Climate of the area is typical of the central coastal region with wet, mild winters and cool, dry summers. Mean annual precipitation in the basin is 24 inches in the northwest to greater than 32 inches in the southeast.

Hydrogeologic Information

Water Bearing Formations

The water bearing aquifers in this coastal area were formed in the quaternary age. The primary deposits in the San Pedro Valley basin are alluvium and artificial fill. The water bearing materials are generally medium to fine-grained and consist of sands and silts.

Alluvium Deposits. Alluvial deposits can be found throughout most of the basin. The deposits consist of sands, silts, and clays with some gravels. This includes stream channel and stream terrace deposits. (USGS 1961).

Groundwater Level Trends

No published data was found for the San Pedro Valley groundwater basin.

Groundwater Storage

Groundwater Storage Capacity. No published data was found for the San Pedro Valley groundwater basin.

Groundwater in Storage. No published data was found for the San Pedro Valley groundwater basin.

Groundwater Budget (Type C)

Due to lack of groundwater budget data, inflows, including natural, applied, and artificial recharge and outflows including urban and agricultural extraction have not been included.

Groundwater Quality

Characterization. Water quality information for the San PedroValley groundwater basin is minimal. Historical data from 1 well in the basin indicates a total dissolved solids average value of 140 mg/l.

Impairments. No published data was found for the San Pedro Valley groundwater basin.

Well Production characteristics

	Well yields (gal/min)	
Municipal/Irrigation	NKD	NKD
	Total depths (ft)	
Domestic	NKD	
Municipal/Irrigation	NKD	

Active Monitoring Data

Agency	Parameter	Number of wells /measurement frequency
	Groundwater levels	NKD
	Mineral, nutrient, & minor element.	NKD
Department of Health Services and cooperators	Coliform, nitrates, mineral, organic chemicals, and radiological.	NKD

NKD- No known data

Basin Management

Groundwater management:	No known groundwater management plans, groundwater ordinances, or basin adjudications.
Water agencies	
Public	North Coast County WD
Private	

References Cited

Jennings, O.P. 1973, Geologic map of California: California Division of Mines and Geology, Geologic Map Series, San Francisco Sheet, scale 1:250,000.

California Department of Water Resources, Bulletin No. 62-5, Sea-Water Intrusion in California, October 1975.

US Department of Agriculture, Soil Conservation Service, Soil Survey San Mateo Area California Series 1954, No. 13; May 1961

Additional References

California Department of Water Resources, Bulletin No. 77-58, Ground Water Conditions in Central and Northern California 1957-58, October 1959.

California Department of Water Resources, Bulletin No. 130-72, Volume II Northeastern California, December 1973.

California Department of Water Resources, Bulletin No. 118-80, Ground Water Basins in California, January 1980.

California Department of Water Resources, Bulletin No. 138, Coastal San Mateo County Investigation, March 1965.

Errata

Changes made to the basin description will be noted here.