

## Villa Valley Groundwater Basin

- Groundwater Basin Number: 3-37
- County: San Luis Obispo
- Surface Area: 980 acres (1.5 square miles)

### Basin Boundaries and Hydrology

The Villa Valley Groundwater Basin is bounded on the south by the Pacific Ocean and on the north, east, and west by impermeable rocks of the Jurassic to Cretaceous age Franciscan Group. The basin is drained by Villa Creek, which flows into Estero Bay.

### Hydrogeologic Information

#### ***Water Bearing Formations***

Groundwater is found in Holocene and late Pleistocene age alluvium. The specific yield is estimated at 15 percent (DWR 1958).

**Alluvium.** The alluvium, which consists of sand, gravel, and clay, ranges to 130 feet thick (DWR 1975).

#### ***Recharge Areas***

Recharge to the basin is largely by percolation of stream flow and to a lesser extent from infiltration of precipitation and excess irrigation flow (DWR 1958).

#### ***Groundwater Level Trends***

Groundwater flow is generally southward.

#### ***Groundwater Storage***

**Groundwater Storage Capacity.** The total storage capacity is estimated at 6,600 af (DWR 1975).

**Groundwater in Storage.** Unknown.

#### ***Groundwater Budget (Type C)***

No information available.

#### ***Groundwater Quality***

**Characterization.** Groundwater analyses from 6 wells in this basin taken from 1957 through 1977 show TDS content ranging from 260 to 1,635 mg/L.

**Impairments.** Chloride was found to exceed 100 mg/L during 1953 to 1955 and 1967 to 1969 (DWR 1975), and samples collected in 1974 show chloride in excess of 800 mg/L. It is not known whether or not high levels are caused by sea-water intrusion (DWR 1975).

## Well Characteristics

Well yields (gal/min)		
Municipal/Irrigation	Range:	Average:
Total depths (ft)		
Domestic	Range:	Average:
Municipal/Irrigation	Range: - 135 max	Average: 80 (DWR 1958)

## Active Monitoring Data

Agency	Parameter	Number of wells /measurement frequency
Department of Health Services and cooperators	Groundwater levels	
	Miscellaneous water quality	
	Title 22 water quality	

## Basin Management

Groundwater management:

Water agencies

Public	San Luis Obispo County Department of Public Works
Private	

## References Cited

- California Department of Water Resources (DWR). 1958. *San Luis Obispo County Investigation*. Bulletin 18, 288 p.
- \_\_\_\_\_. 1975. *Sea-Water Intrusion in California: Inventory of Coastal Ground Water Basins*. Bulletin 63-5.

## Errata

Changes made to the basin description will be noted here.