

Sand Point Area Groundwater Basin

- Groundwater Basin Number: 2-27
- County: Marin
- Surface Area: 1,407 acres (2.2 square miles)

Basin Boundaries and Hydrology

The Sand Point Area groundwater basin is a small, coastal basin located just south of the town of Dillon Beach. It is bounded to the west, south and southwest by Tomales Bay. Tomales Bay is a geologic feature of high significance, as it delineates the north, northwest trending San Andreas Fault Zone. The basin's northern boundary lies just south of Dillon Beach, and adjoins the Wilson Grove Formation Highlands basin. The eastern boundary extends inland a distance that varies from about 1/4 mile in the south to just over 2 miles in the north. The northern and eastern basin boundaries approximate the contact between the alluvial deposits in the basin and the surrounding bedrock. Holocene beach sands and Latest Pleistocene to Holocene dune sands are the predominant basin deposits (Knudsen, 2000). According to one water well log available for the basin (western-portion), bedrock, consisting of the Franciscan Formation, was encountered beneath the alluvium at 94 feet bgs. The Franciscan Formation consists mainly of sandstone, with minor amounts of conglomerate, chert, and shale (Daetwyler et al, 1966). The annual precipitation in the basin averages 35 inches (USDA, 1999). *(NOTE: the north & east boundaries "approximately" follow the alluvial sand deposits, but the boundary itself extends east about 1/2 mile, to include mapped bedrock - looks like the boundary may need slight adjusting).*

Hydrogeologic Information

Water Bearing Formations

No published information was found regarding the water bearing formations within the Sand Point Area groundwater basin.

Restrictive Structures

No restrictive structures, other than bedrock basin boundaries, were identified.

Groundwater Level Trends

No published information was found that would indicate groundwater level trends for the Sand Point Area groundwater basin.

Groundwater Storage Capacity

No published information was found addressing the groundwater storage capacity of the Sand Point Area groundwater basin.

Groundwater in Storage

No published report was found addressing the quantity of groundwater in storage.

Groundwater Budget (Type)

Not enough data exists presently to provide either an estimate of the Sand Point Area basin's groundwater budget or the groundwater extraction from the basin

Groundwater Quality

No published information was found that would indicate groundwater quality in the Sand Point Area groundwater basin.

Water Quality in Public Supply Wells

Constituent Group¹	Number of wells sampled²	Number of wells with a concentration above an MCL³
Inorganics – Primary	3	0
Radiological	3	0
Nitrates	3	0
Pesticides	3	0
VOCs and SVOCs	3	0
Inorganics – Secondary	3	0

¹ A description of each member in the constituent groups and a generalized discussion of the relevance of these groups are included in *California's Groundwater – Bulletin 118* by DWR (2003).

² Represents distinct number of wells sampled as required under DHS Title 22 program from 1994 through 2000.

³ Each well reported with a concentration above an MCL was confirmed with a second detection above an MCL. This information is intended as an indicator of the types of activities that cause contamination in a given basin. It represents the water quality at the sample location. It does not indicate the water quality delivered to the consumer. More detailed drinking water quality information can be obtained from the local water purveyor and its annual Consumer Confidence Report.

Well Production Characteristics

No published information was found that would indicate well production characteristics in the Sand Point Area groundwater basin.

Well Characteristics

Well yields (gal/min)		
Municipal/Irrigation		
Total depths (ft)		
Domestic	Range: 94	Average: 94 (Based on information from (1) drillers log submitted to DWR).
Municipal/Irrigation		

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

No information was found that would indicate the basin is within any water agency boundaries.

Groundwater management: Unknown

Water agencies

Public

Private

References Cited

USDA. United States Average Annual Precipitation, 1961-1990: Map Layer, 1999.

USGS, Open-File Report 00-444, Preliminary Maps of Quaternary Deposits and Liquefaction Susceptibility, Nine-County, San Francisco Bay Region, California: A Digital Database, 2000, Knudsen, etal.

1. Daetwyler Calvin C., Scripps Institution of Oceanography and Pacific Marine Station, University of the Pacific, Research Report No. 6, November, 1966.

Additional References

Wallace, Roberts and Todd, 1988, Revised Draft Dillon Beach Community Plan, Prepared for Marin County Planning Department.

Errata

Changes made to the basin description will be noted here.