

City of Redwood City

Public Works Services Department

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Service Area

Redwood City is located in south San Mateo County. The City of Redwood City owns and operates its own water utility, and supplies water beyond its City limits, to portions of the Town of Woodside, the City of San Carlos, and unincorporated areas of the County.

System

Profile

Area Size	35 square miles
Service Population	85,098
Number of Accounts	23,166
Number of SFPUC Connections	13
Connections To SFPUC Mains	Bay Crossing 1 and 2, BDPL 1 and 2, BDPL 3 and 4
Avg. Day Demand (mgd)	10.02
Avg. Day Purchases From SFPUC (mgd)	9.61
% Demand Met With SFPUC Supplies	95.9%
Maximum Local Water Production (mgd)	0
Alternative Supply Sources	Recycled water for landscape irrigation
Interties With Other Agencies	CWS -Bear Gulch, CWS - Mid- Peninsula, Mid-Peninsula WD, Menlo Park
Local Storage (mg)	21.24
Days of Storage	2.2 days storage. - 4 of 14 pressure zones have no storage facilities. The 4 zones without storage have emergency interties with other water agencies.

Summary

The City of Redwood City purchases all of its potable water from the SFPUC via 13 active meter connections. 7 of the turnouts are located off Bay Division Pipelines 1 and 2, 1 turnout is off BDPL 1, 2, and 3, and 5 turnouts are off BDPL 3 and 4.

The distribution system consists of 14 separate pressure zones, 10 pump stations and 264.5 miles of water mains. Pumps are located at 7 of the 11 storage sites. In addition, there are permanent generators at the Glenloch, Peninsula 1, and Peninsula 2 tanks, and 2 portable generators on stand-by.

The City has a total of 11 emergency interties with California Water Service of San Carlos, Mid-Peninsula Water District, and the City of Menlo Park.

Water Supply and Demand

Supply by Source	Actual FY 06-07 (ccf)	Actual FY 07-08 (ccf)	Actual FY 08-09 (ccf)	Actual FY 09-10 (ccf)
San Francisco Water	5,694,374	5,711,397	5,048,309	4,689,257
Recycled Water	6,871	112,384	42,705	201,867
Other	0	0	0	0
Total	5,701,245	5,823,781	5,091,014	4,891,124
mgd equivalent	11.68	11.93	10.43	10.02

Demand by Sector

Residential	3,760,348	3,631,006	3,494,504	3,037,782
Commercial/Industrial	1,538,003	1,378,552	1,313,361	827,258
Other	73,906	140,770	72,246	233,756
Dedicated Irrigation	0	0	0	388,035
Unaccounted for	328,988	673,453	210,903	404,293
Total	5,701,245	5,823,781	5,091,014	4,891,124
mgd equivalent	11.68	11.93	10.43	10.02

Per Capita Use	Actual FY 06-07 (gpcpd)	Actual FY 07-08 (gpcpd)	Actual FY 08-09 (gpcpd)	Actual FY 09-10 (gpcpd)
Residential	92	89	85	73
Gross (Less Recycled Water)	139	140	123	118

Facilities and Distribution

Storage Reservoirs

Designation	Type	Capacity (mg)	Designation	Type	Capacity (mg)
Easter Cross	Steel	0.10	Lakeview	Steel	1.00
Easter Bowl	Steel	1.20	Main City Zone	Steel	8.00
Glenloch	Steel	0.09	Main City Zone	Steel	3.75
Wilmington South	Steel	0.25	Redwood Shores	Steel	3.20
Cambridge	Steel	0.65	Redwood Shores	Steel	3.00
Total					21.24

Interties

Name	No.	Diameter (in.)	Name	No.	Diameter (in.)
BCWD	1	12	Douglas / Fair Oaks	1	6
BCWD and CWS	1	12	CWS – Bear Gulch	2	6
Oakwood / El Camino	1	6	Bransten / Industrial	1	8
MPW	1	6	San Carlos	2	6, Fire Hose
Alameda / Edgewood	1	Fire Hose	Eaton	1	Fire Hose