

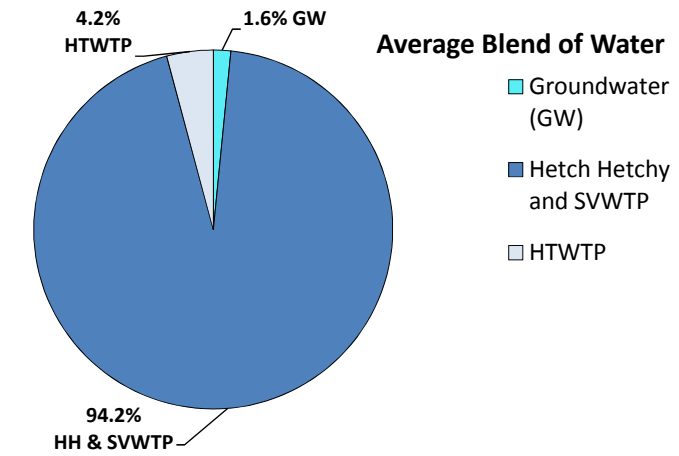
San Francisco Groundwater Supply Project
SFPUC Surface Water - Groundwater Blend Report [4/29/19 - 5/12/19]

(Posted on 5/17/19)

During the period 4/29/19 - 5/12/19, Sunset and Sutro Reservoirs received a combination of surface water from Hetch Hetchy and Bay Area reservoirs and local groundwater. Table 1 below summarizes the water quality characteristics of the blended water in the reservoirs.

Table 1: Blended Water Characteristics

Parameter	California Title 22 Regulatory Standard	Unit	2018 Maximum Value ²	2018 Minimum Value ²	Latest Data from Sunset Reservoir Outlet
Alkalinity	Other ¹	mg/L (as CaCO ₃)	132	<3	26
Chloride	250 ¹	mg/L	17	<3	7
Hardness	Other ¹	mg/L (as CaCO ₃)	68	15	21
Total Dissolved Solids	500 ¹	mg/L	144	<20	44
Specific Conductance	900 ¹	µS/cm	221	29	97



The blended water is routinely sampled to ensure the quality of deliveries and safety of drinking water supplied to our customers. **Over one hundred parameters are sampled**, in accordance with the California Code of Regulations (CCR), Title 22 Drinking Water Regulations. Table 2 below summarizes water quality parameters for which blending is required. While the levels of these parameters may vary slightly from week to week, they will not exceed the drinking water standards set by the California State Water Resources Control Board (SWRCB) Division of Drinking Water and the United States Environmental Protection Agency (USEPA).

Table 2: Water Quality Data for Groundwater Parameters that Require Blending - Sunset Reservoir

Parameter	California Title 22 Regulatory Standard	Unit	Current Sampling Frequency ⁵	Water Quality Monitoring Results in Sunset Reservoir					
				Number of Samples to Date	Date of Latest Sample	Blending Results			
						Latest ⁶	High ⁷	Low ⁷	Average ⁷
Chromium VI	0.01 ³	mg/L	Weekly	253	5/7/2019	0.000085	0.00092	0.000034	0.00017
Manganese (Mn)	0.05 ¹	mg/L	Weekly	227	4/30/2019	<0.002	0.0084	<0.002	<0.002
Nitrate	10 ⁴	mg/L (as N)	Weekly	249	5/7/2019	0.077	0.33	<0.07	<0.07

While groundwater serving the Sutro Reservoir only comes from the Lake Merced Well, which does not require blending, Table 3 provides the most recent data of blended water quality.

Table 3: Water Quality Data for Groundwater Parameters that Require Blending - Sutro Reservoir

Parameter	California Title 22 Regulatory Standard	Unit	Current Sampling Frequency ⁵	Water Quality Monitoring Results in Sutro Reservoir					
				Number of Samples to Date	Date of Latest Sample	Blending Results			
						Latest ⁶	High ⁷	Low ⁷	Average ⁷
Chromium VI	0.01 ³	mg/L	Weekly	107	5/7/2019	0.00026	0.00053	0.000027	0.000091
Manganese (Mn)	0.05 ¹	mg/L	Weekly	101	4/30/2019	0.0023	0.050	<0.002	0.0038
Nitrate	10 ⁴	mg/L (as N)	Weekly	106	5/7/2019	0.16	0.22	<0.07	<0.07

Notes:

- 1) SMCL as discussed in Article 16, Section §64449 (b) of Title 22. Division 4. Chapter 15 of the CCR. Provided numbers are "recommended" limits.
- 2) Values from SFPUC 2018 Annual Water Quality Report.
- 3) CA State Standard for Chromium VI was deleted from the CCR in August 2017. However, the SWRCB will implement a new standard as soon as possible. In the interim the SFPUC will continue to monitor for Chromium VI.
- 4) MCL as discussed in Article 16, Section §64449 (b) of Title 22. Division 4. Chapter 15 of the CCR.
- 5) Before each drinking water well goes into routine production, rigorous start-up testing is conducted for eight weeks, after which a long-term sampling schedule begins. The start-up and long-term sampling schedules are in accordance with a water quality compliance monitoring plan that was reviewed and approved by the SWRCB.
- 6) Single sample data point.
- 7) Historical high, low and average blend values based on data from 4/23/2017, after groundwater was first introduced to the water supply, through the latest sampling date for which laboratory results are available.

Acronyms:

- HTWTP - Harry Tracy Water Treatment Plant
- MCL - Maximum Contaminant Level
- mg/L - Milligrams per Liter
- SMCL - Secondary Maximum Contaminant Level
- SVWTP - Sunol Valley Water Treatment Plant
- µS/cm - Micro-Siemens per Centimeter