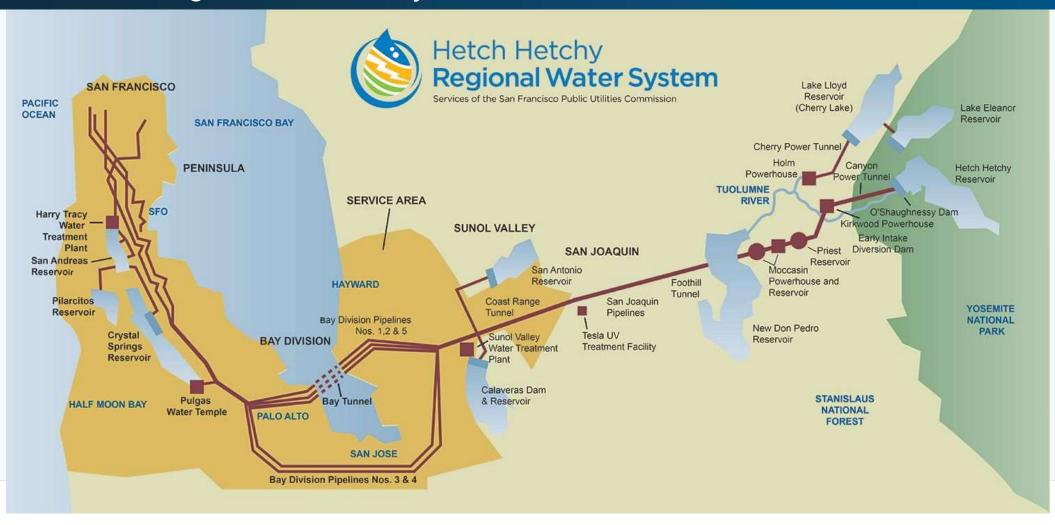
Pure Water Peninsula

WateReuse Northern California Chapter meeting

SFPUC Regional Water System

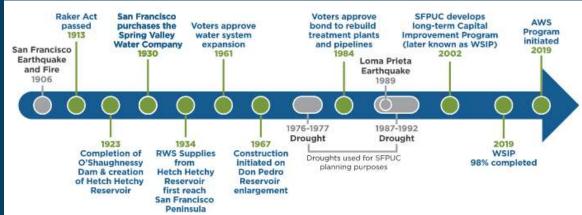


Project Needs: Water Availability during Dry Years

Alternative Water Supply Program:

- Identified anticipated water supply gap through 2045
- Defined projects to augment water supply





Bay Delta Plan Amendment:

- New instream flow requirements
- Reduce available supply during dry years from 257 mgd to 152 mgd

Alternative Water Supply Program Options

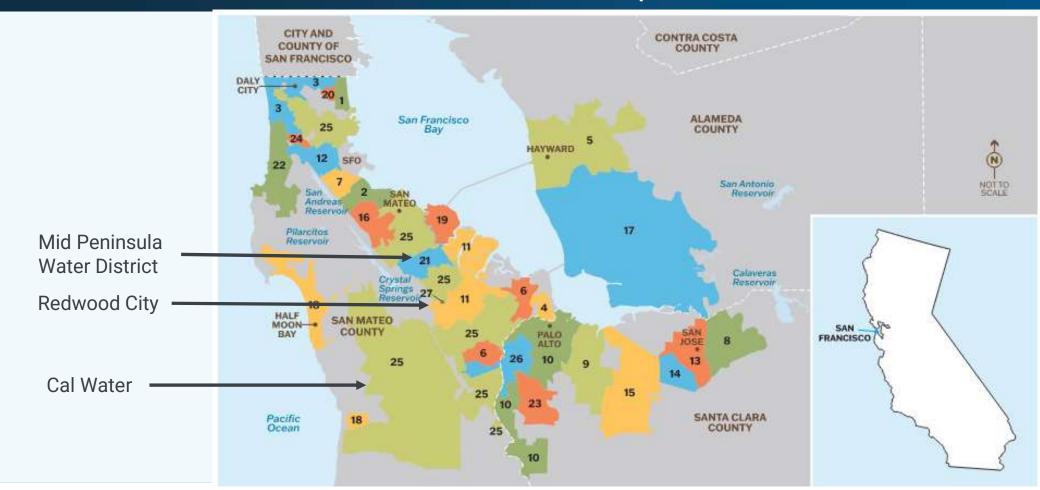
- Six Projects Identified:
 - 1. Daily City Recycled Water Expansion
 - Pure Water Peninsula
 - ACWD-USD Purified Water
 - 4. South Bay Purified Water
 - 5. Los Vaqueros Expansion
 - 6. Calaveras Reservoir Expansion





PURE WATER PENINSULA

SFPUC Whole Sale Service Area - Partnerships



PureWater Peninsula Project

Phase 1

 Reservoir Augmentation at Crystal Springs

<u>Phase 2 – Potential Future</u> <u>Expansion</u>

- Treated Water Augmentation
 - Cal Water
 - Redwood City
 - Mid Peninsula Water District



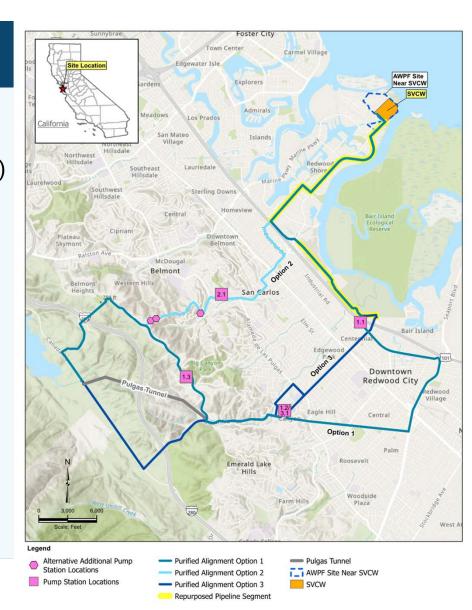
PureWater Peninsula Project

Reservoir Augmentation (ResWA)

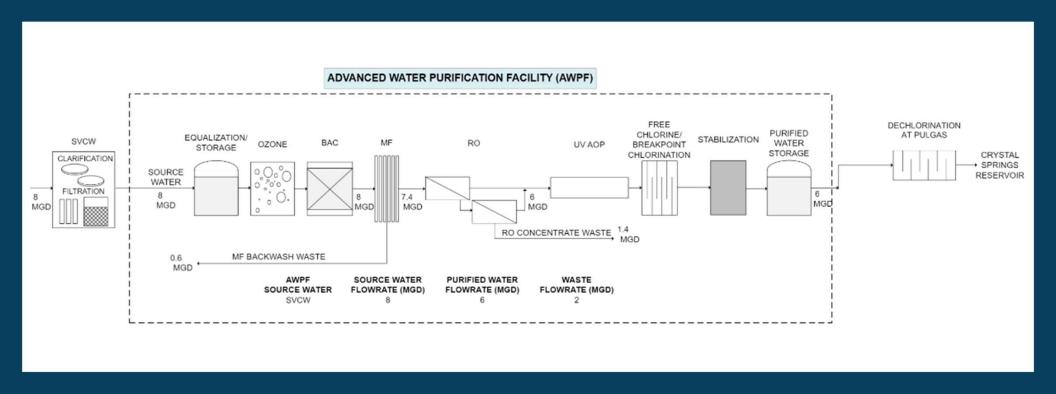
Phase 1

- Silicon Valley Clean Water wastewater supply (8 MGD)
- New AWPF to produce 6 MGD Purified Water
- Multiple conveyance options considered
- Reservoir Augmentation at Crystal Springs
- Treatment at Harry Tracy WTP before distribution

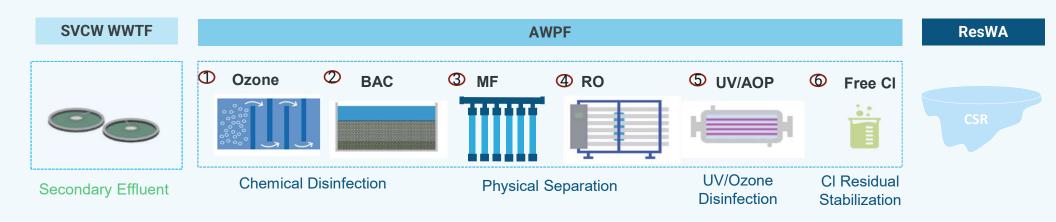




AWPF Treatment - Full DPR Train



AWPF Treatment - Full DPR Train



	Potential Log Removal Credits							Total	TWA Log	ResWA Log
Treatment Processes	WWTP- Secondary Filtration ¹	Ozone	BAC ²	MF	RO	UV/ AOP	Free Chlorine	Potential LRV Credits	Removal Required	Removal Required
Virus	2	2	1	1	2	6	6	20	20	9
Giardia	2	1	2	4	2	6	2	19	14	8
Cryptosporidium	2	0	2	4	2	6	0	16	15	9

- 1. LRV Credit to be evaluated based on WWTP performance
- 2. BAC LRV credits based on conservative estimate

Implementation Timeline

