



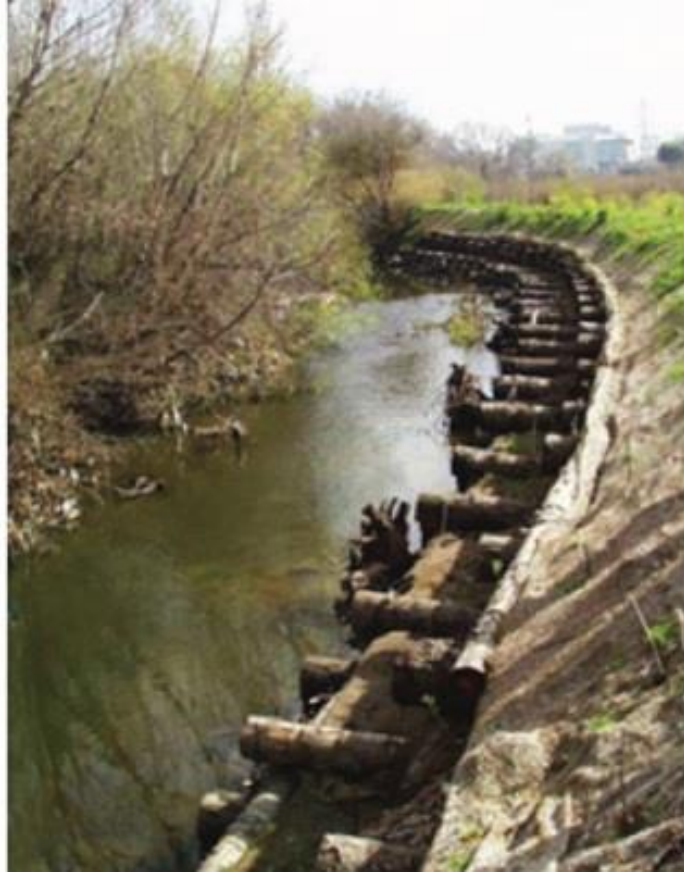
Valley Water: Managing Extreme Drought

Presented by: Nai Hsueh, District 5, Valley Water Board of Directors

Valley Water provides:



Clean water



Flood protection



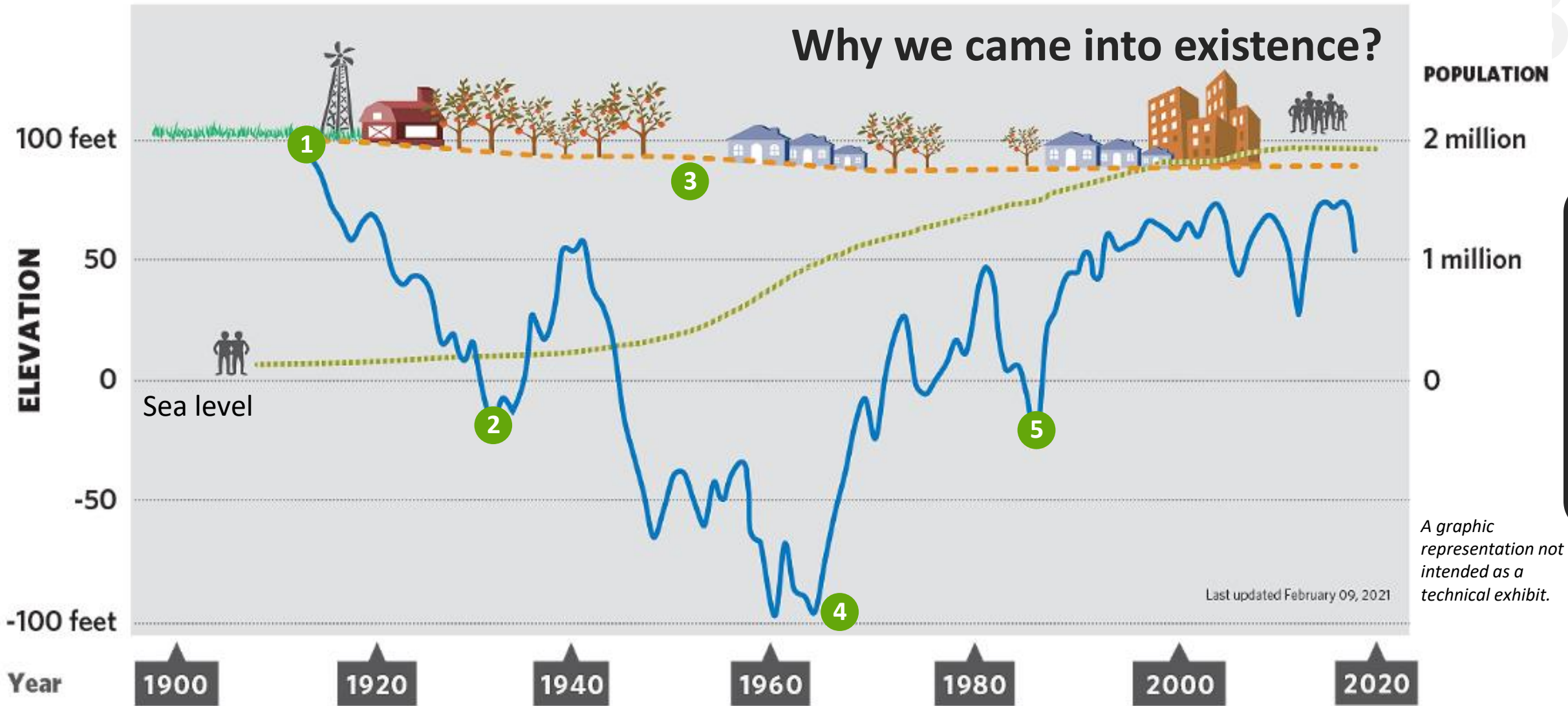
Healthy environment

Land Surface Elevation

Groundwater Elevation

Population

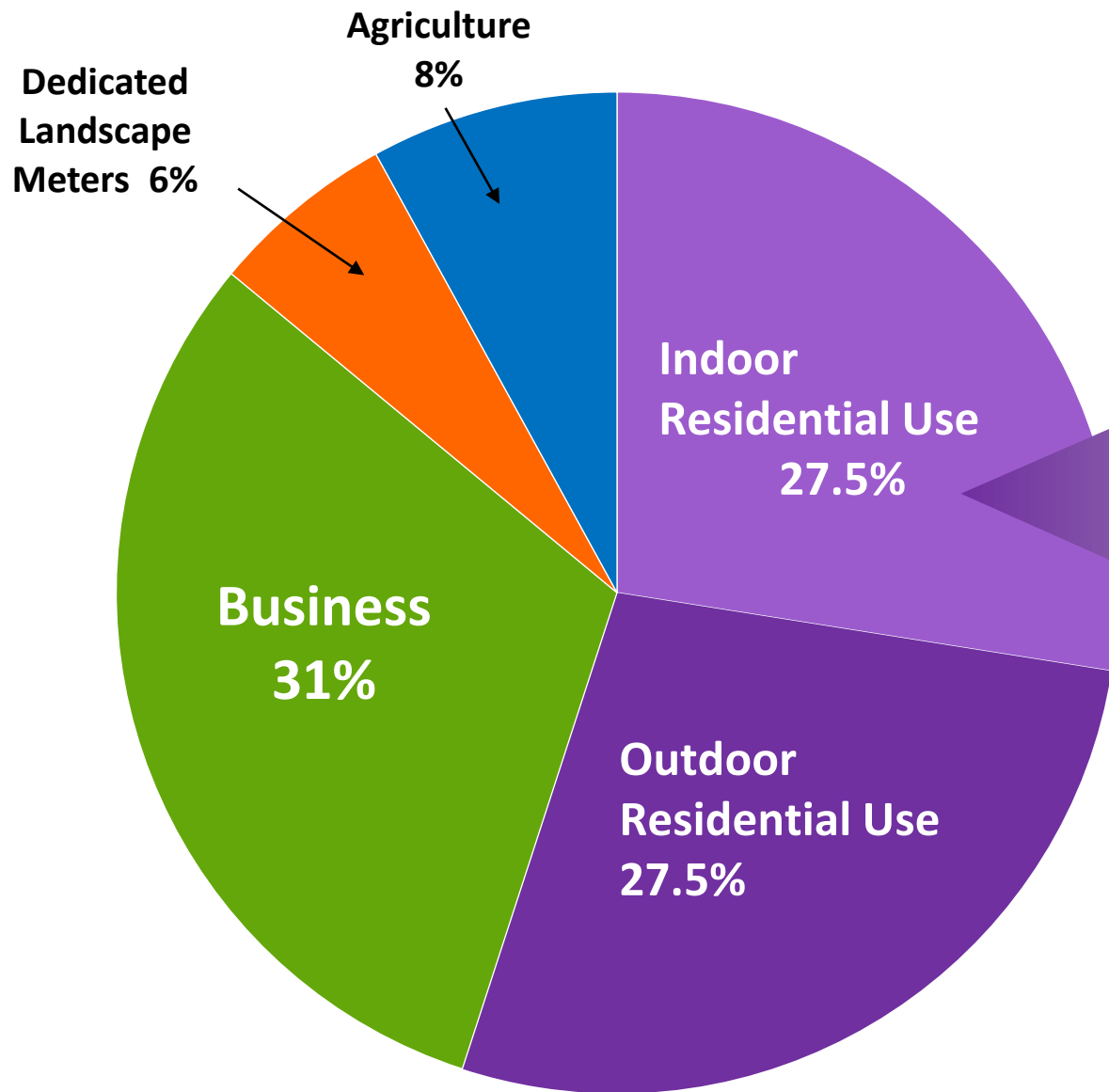
Why we came into existence?



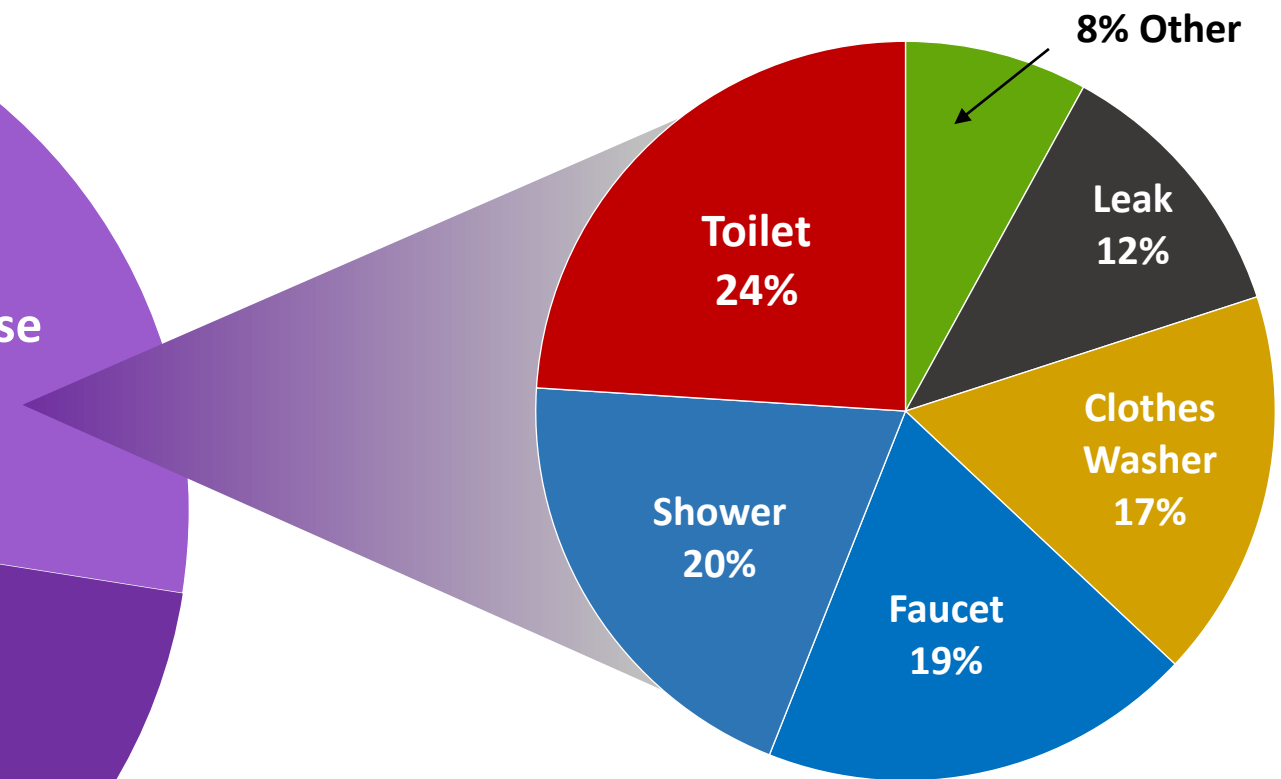
Last updated February 09, 2021

A graphic representation not intended as a technical exhibit.

valleywater.org



Indoor Use – where does it go?





Local Water (30%)

- Groundwater aquifer
- Reservoirs



Imported Water (50%)

- Delta conveyed – 40%
 - Hetch Hetchy – 10%
- (Proposed cut of 50% for this dry year)***



Recycled Water (5%)

- Wastewater Treatment
- Advanced Purification



Conservation (15%)

- Residential
- Commercial, Agriculture

Local Water

- Groundwater aquifer – Limited water to put in as well as take out
- Reservoirs – Without Anderson Reservoir for the next 10 years, making us more reliant on imported water

Imported Water

- State Water Project – 5% allocation. CV Project – 0% and 25%.
- Even emergency water supplies are hard to purchase and convey
- Hetch Hetchy – Facing proposed cut of 50% of our allocation
- Potential difficulties with our banked water supply

Recycled Water

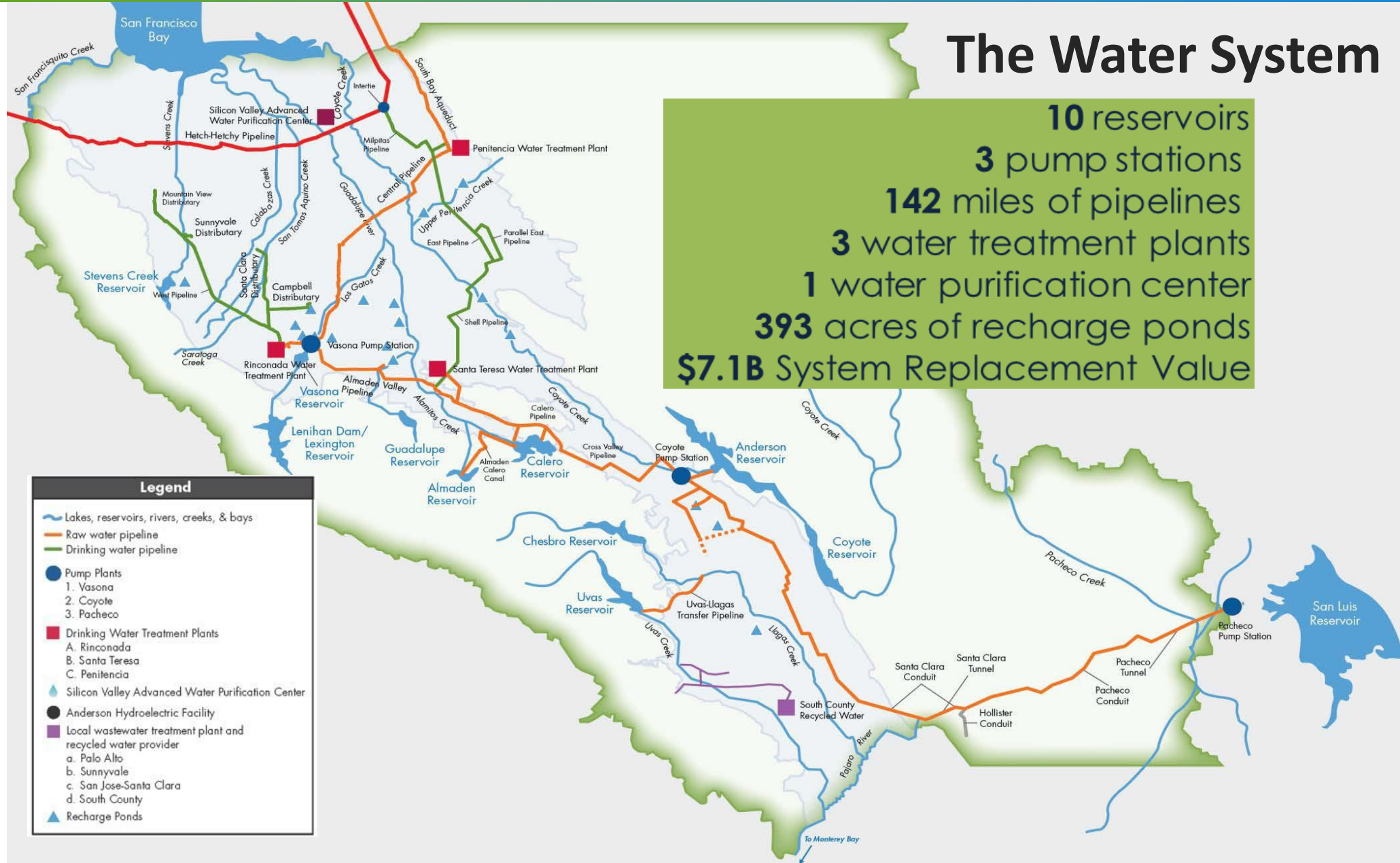
- Less water in our system mean less recycled water

Conservation

- Contingent on public participation
- Valley Water does not have ability to regulate water usage

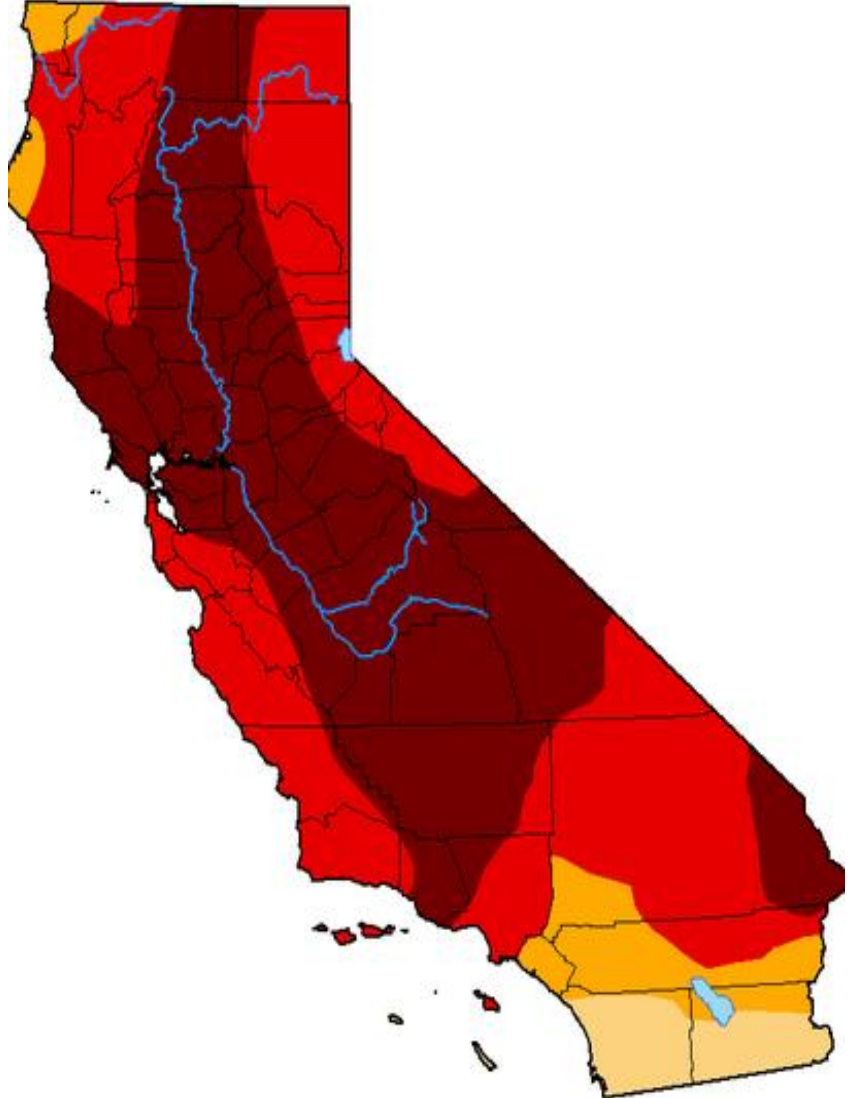
The Water System

10 reservoirs
3 pump stations
142 miles of pipelines
3 water treatment plants
1 water purification center
393 acres of recharge ponds
\$7.1B System Replacement Value



Legend	
	Lakes, reservoirs, rivers, creeks, & bays
	Raw water pipeline
	Drinking water pipeline
	Pump Plants
1.	Vasona
2.	Coyote
3.	Pacheco
	Drinking Water Treatment Plants
A.	Rinconada
B.	Santa Teresa
C.	Penitencia
	Silicon Valley Advanced Water Purification Center
	Anderson Hydroelectric Facility
	Local wastewater treatment plant and recycled water provider
a.	Palo Alto
b.	Sunnyvale
c.	San Jose-Santa Clara
d.	South County
	Recharge Ponds

Drought Monitor



Thurs. October 7, 2021

Intensity:

None	D2 Severe Drought
D0 Abnormally Dry	D3 Extreme Drought
D1 Moderate Drought	D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

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NOAA/NWS/NCEP/CPC



droughtmonitor.unl.edu

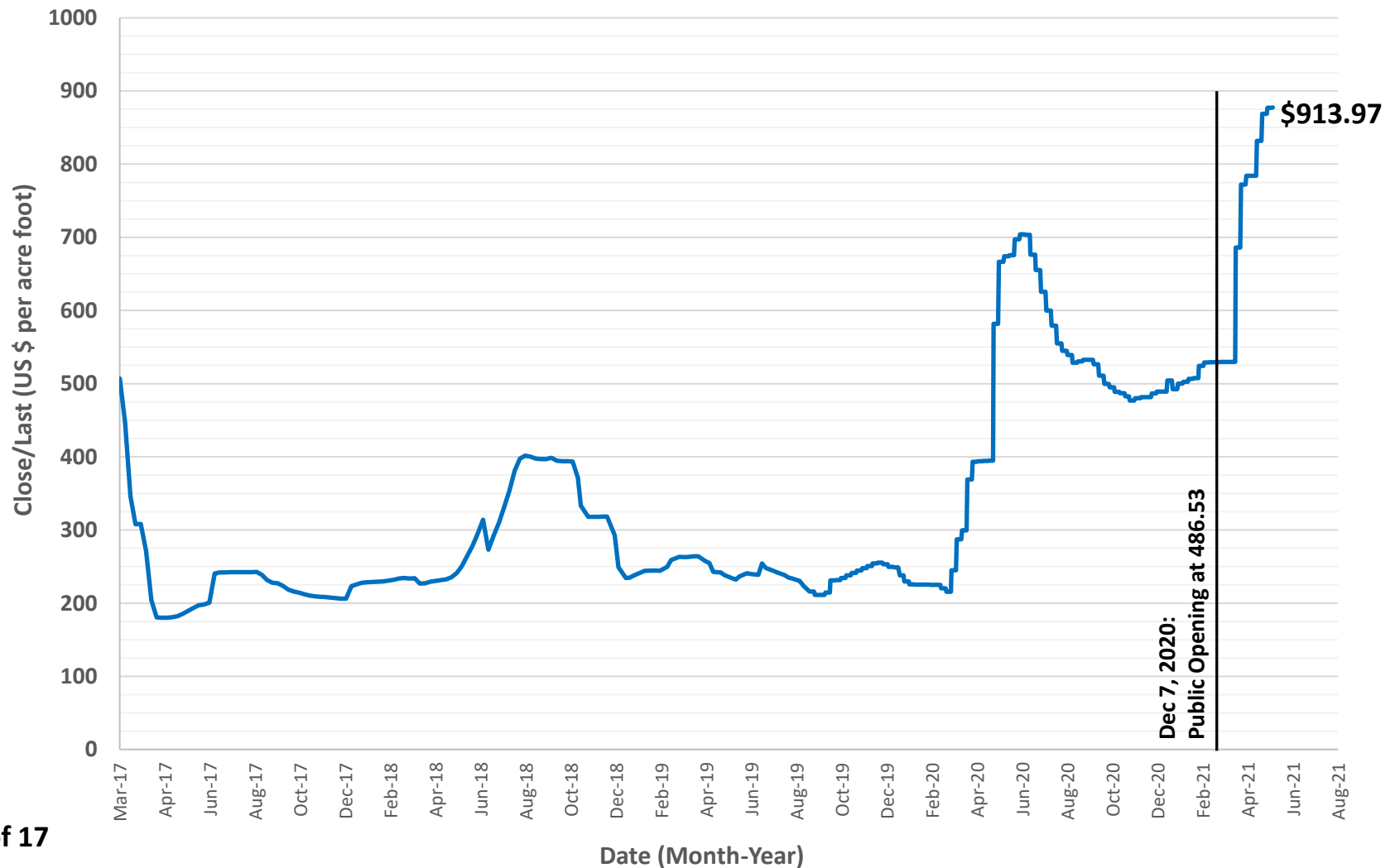


Anderson Reservoir: Before and After

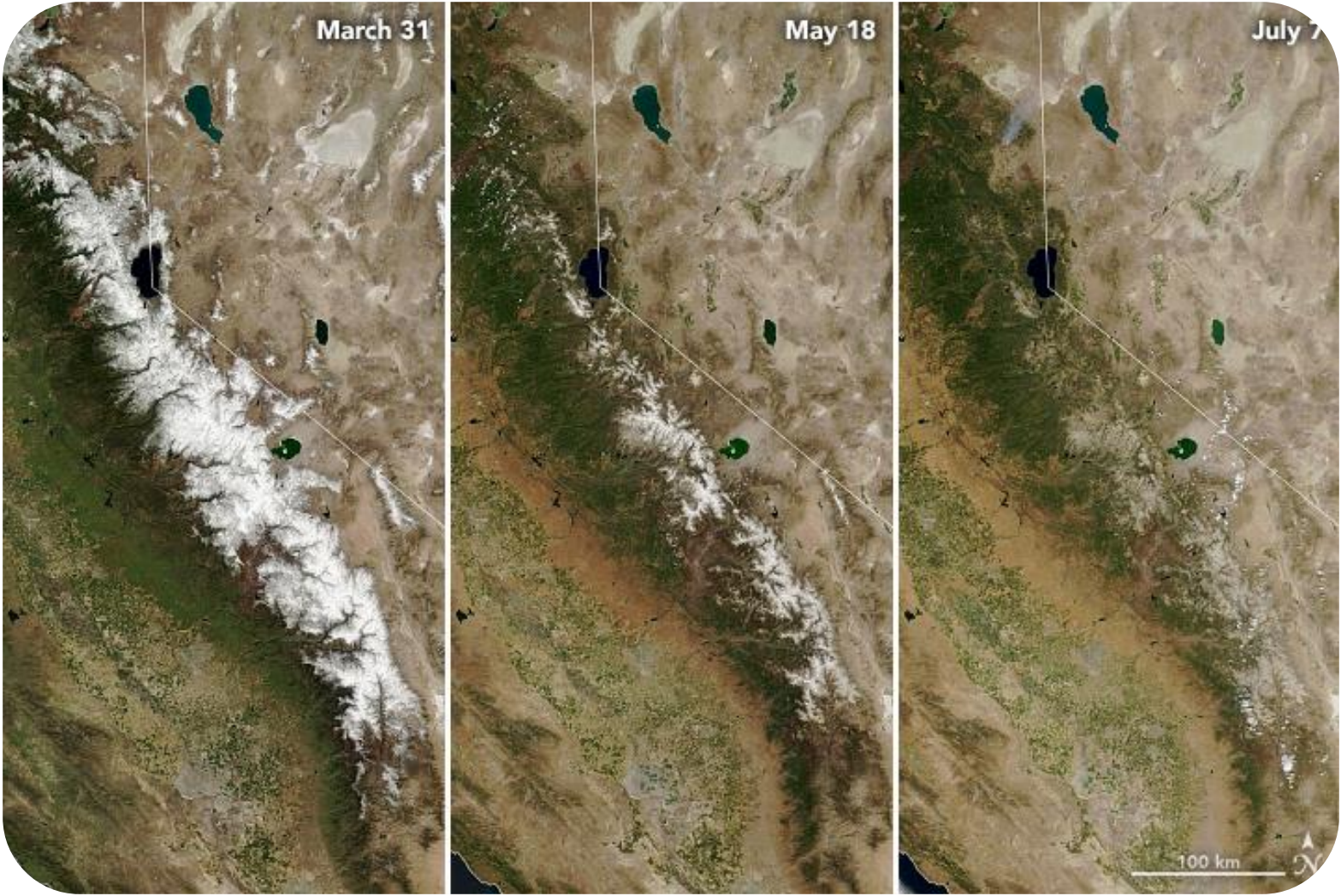
2021 Water Supply Conditions

NQH20 Index Futures Contracts Historical Data

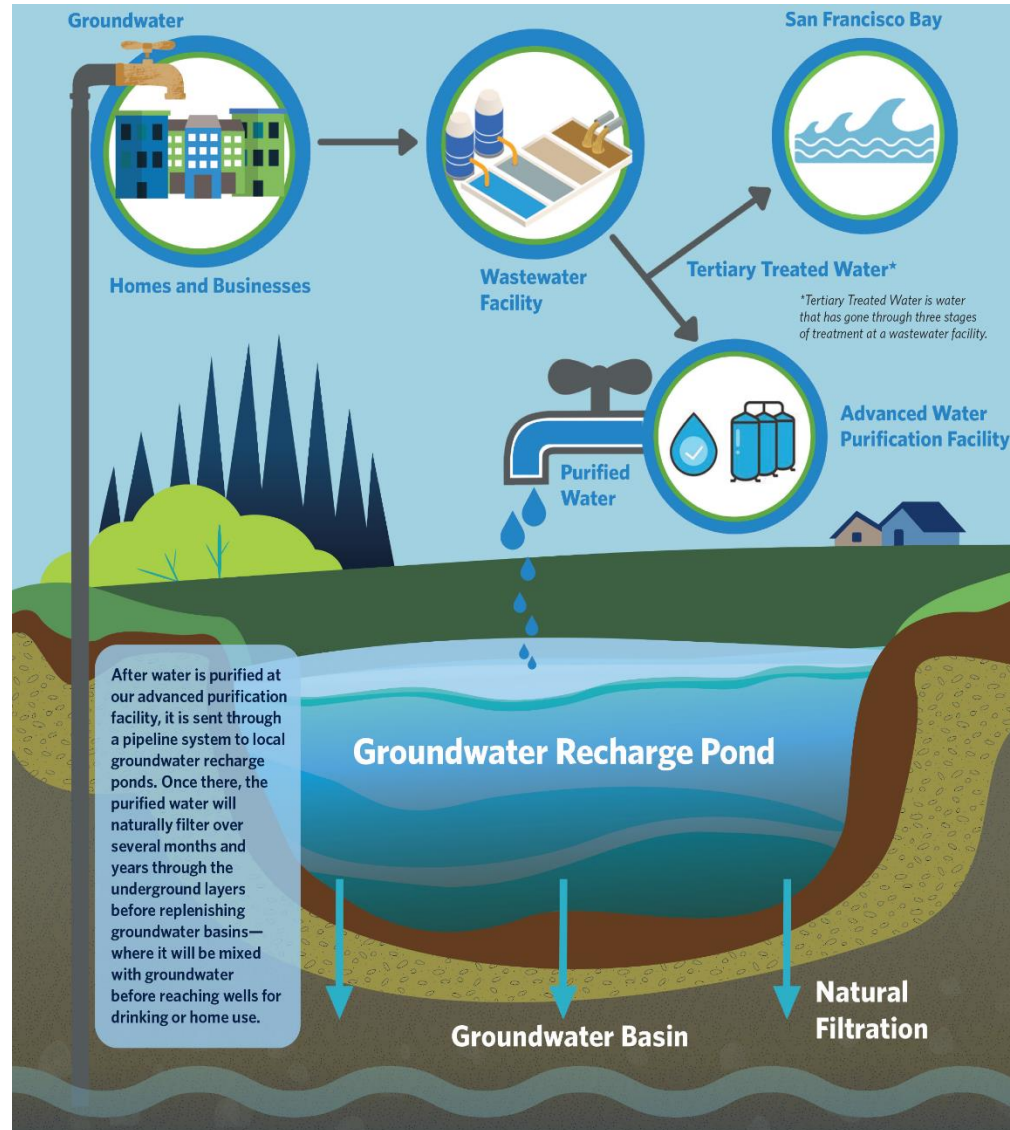
- Initial imported water allocations are extremely low:
 - SWP: 5%
 - CVP: 5% Ag (however not available until further notice) and 55% M&I
 - Zero snowpack left
 - Upstream reservoir at historic low
 - Transfer across the Delta are very hard now



Climate Change creating havoc with system



Recycled and Purified Water



#1 MICROFILTRATION



#2 REVERSE OSMOSIS



#3 UV LIGHT DISINFECTION AND ADVANCED OXIDATION

Water Conservation should be a way of life

- Free Efficient Showerheads and Aerators
- Landscape Rebate Program
- Graywater Rebate Program
- WET (Water Efficient Technology) Rebate Program
- Submeter Rebate Program
- Rainwater and Cistern Rebate Program
- Water Waste Inspections
- Water Wise Outdoor Surveys

Visit WaterSavings.org to learn more



Education and Resources

- We can send you efficient showerheads and aerators for free!
- Always look for an EPA WaterSense or EnergyStar label.
- WaterSavings.org and SouthBayGreenGardens.org



Shopping Cart for easy ordering

www.valleywater.org/saving-water/shopping-cart

Services Valley Water offers

- Water Waste Inspections
- Water Wise Outdoor Surveys
- Large Landscape Surveys


- You can report water waste by:
 - Calling (408) 630-2000
 - Email: WaterWise@valleywater.org



Why is water conservation important?

- Ensures we'll have a reliable water supply
- Conservation saves you money!
- Reduces the amount we need to import from the Sacramento Delta
- Reduces pollution from water runoff
- Reduces greenhouse gas emissions

San Luis Reservoir during the last drought.



**The drought
is real!
We have a
plan!**

QUESTIONS

Any questions?

WaterSavings.org

Conservation@ValleyWater.org

The Water Waste Hotline: **408-630-2000**

BeHeard.valleywater.org/drought-information

Access **Valley Water**, download or look at the bottom right corner of ValleyWater.org

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Report water waste, homeless encampments, or other problems to Valley Water >>

