



Water Supply Update

City of Morro Bay
City Council Meeting
January 28, 2014

Sources of Water

- State Water Project
- Groundwater/Brackish Water Reverse Osmosis
- Sea Water
- Conservation
- Reclaimed Water - Future

State Water Project

- Annual Allocation – 1,313 Acre – Ft/Year (428 Mil Gal)
- Drought Buffer – 2,290 Acre –Ft/Year
- Stored Water – 3,072 Acre -Ft
- Issues
 - An Interruptible Water Supply
 - Allocations Fluctuate
 - 2014: 5 - percent
 - 2013: 35 - percent
 - 2012: 65 – percent
 - 2011: 80 - percent

Groundwater

- Historically Morro Bay's primary source of water
- Chorro Creek Groundwater Basin Wells
 - 1,142.5 Acre-Ft/Yr Permitted /5 Active Wells
 - Requires Chorro Creek stream flow ≥ 1.4 CFS
 - High in Nitrates
 - Connections outside City Make using wells problematic
- Morro Wells
 - 591 Acre-Ft/Yr Permitted /4 Active Wells
 - High in Nitrates
 - Feed water for BWRO at the Desal Plant

Sea Water - Desalinization

- Permitted Capacity 645 Acre-Ft/Year
- Feed Water from 5 Salt Water Wells Along Embarcadero Rd
- Iron and Manganese Fouling Issues – Prefiltration required
- Only ran using feed from salt water wells during the mid 90's
- Coastal Permit for Saltwater Wells and Outfall Expired in 1999. City has made Application to make facilities permanent

Conservation

- Least Expensive Source of “New” Water
- Historic High Water Use (1970) – 193 Gal/person/day
- Current Water Use (2013) – 117 Gal/person/day
- Severe Water Supply Conditions as of Today
- People Can Do more than Minimum Required
- Information will be rolling out over next couple weeks
- <http://wateruseitwisely.com/100-ways-to-conserve/>

Reclaimed Water -Future

- City Local Coastal Plan Anticipates 770 Acre/Ft-Year to Offset Agricultural and Landscape Irrigation Demands
- Councils Priority to pursue a new Water Reclamation Facility Site as quickly as possible
- State Regulatory agencies including CCC and RWQCB are supportive of a Water Recycling Program
 - Issues: Salt in reclaimed water can be a hindrance to the use of the recourse
 - Cost

Water Conservation Notice

The City of Morro Bay has implemented Mandatory Water Conservation Requirements for Severely Restricted Water Supply Conditions

Since 2013 has been the driest calendar year in 119 years of California rainfall records, Governor Jerry Brown declared a drought emergency on January 17, 2014. Brown is asking for Californians to reduce their water usage by 20%. Therefore the City of Morro Bay has gone to the next level of water conservation per Municipal Code section 13.04.345 (c) Severely Restricted Water Supply Conditions.

Some of the restrictions set forth are as follows:

Water Conservation Requirements

1. Outdoor Water Use:

- a. Use of water which results in gutter runoff is prohibited.**
- b. No water shall be used for cleaning driveways, patios, parking lots, sidewalks, streets, except where necessary to protect the public health or safety**
- c. Washing cars by use of a hose is prohibited. Use of a bucket is permitted subject to non-wasteful applications.**



Water Conservation Requirements

2. Outdoor Irrigation

- a. Outdoor irrigation is prohibited between the hours of 10am and 4pm.**
- b. Irrigation of landscaping & gardens is permitted at even numbered addresses on Wednesdays and Sundays, & at odd numbered addresses on Tuesdays and Saturdays.**



Water Conservation Requirements

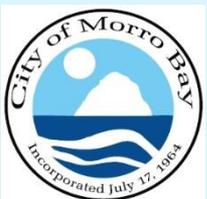
3. Marinas and Waterfront Installations

- a. Use of fresh water to wash down boats or docks, or for other incidental activities, is prohibited.**
- b. All hoses shall have spring-loaded shutoffs or similar devices.**



Water Conservation Requirements

- 4. Restaurants shall serve water only in response to a specific request by a customer.**
- 5. Emptying and refilling swimming pools and spas are prohibited except to prevent structural damage and/or to comply with public health regulations.**
- 6. Use of potable water for compaction or dust-control purposes in construction activities is prohibited.**



Water Conservation Requirements

For more info/flyers:

(805) 772-6261

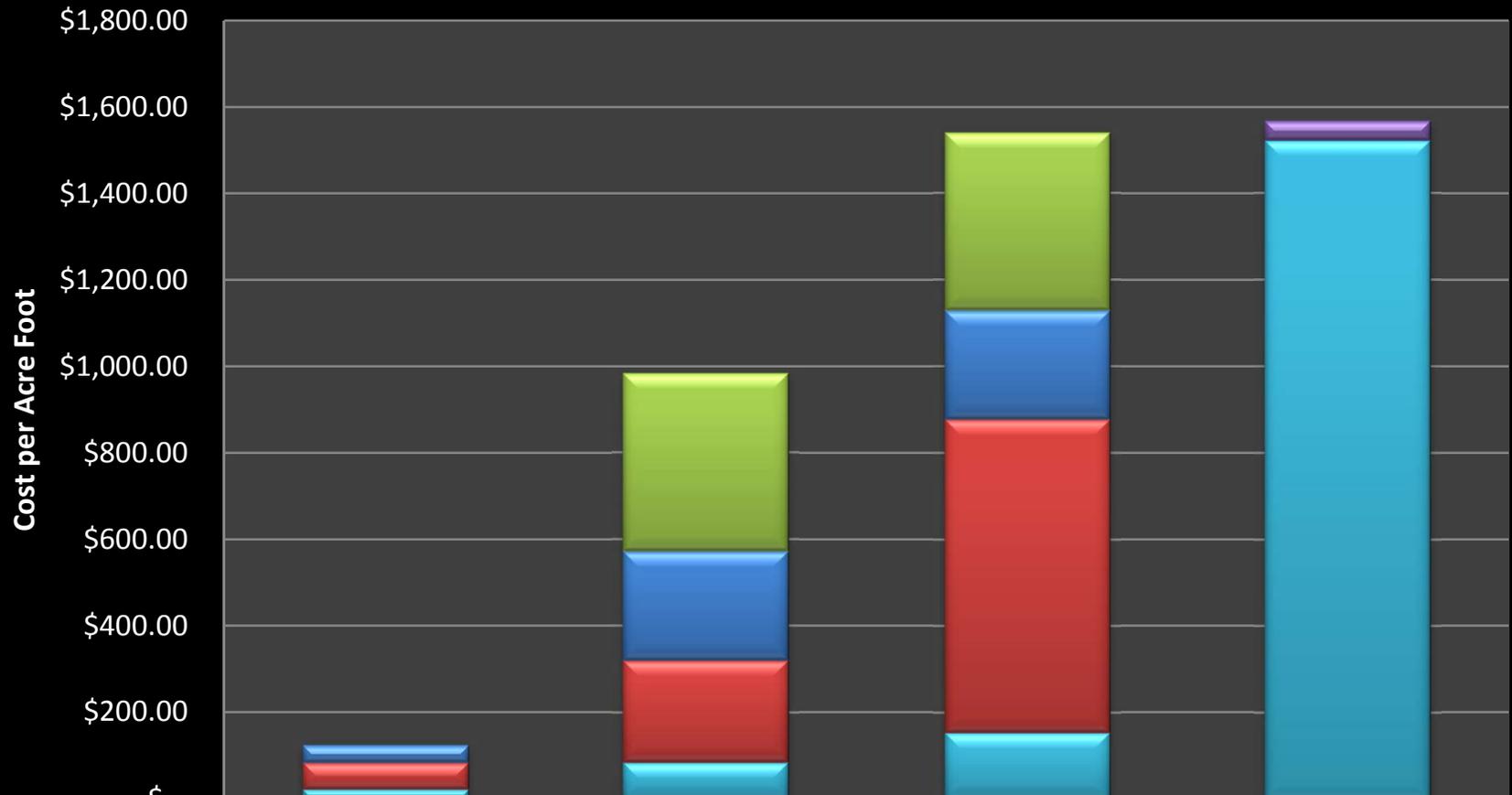
www.saveourh2o.org

www.morro-bay.ca.us

dhanson@morro-bay.ca.us



Fixed and Variable Cost of Water



	Well	BWRO	SWRO	SWP
Combined				\$44.54
Chemical	\$0.38	\$410.92	\$410.92	
Labor	\$39.29	\$251.64	\$251.64	
Electricity	\$61.24	\$234.67	\$723.46	
Fix	\$23.21	\$86.11	\$154.99	\$1,523.23