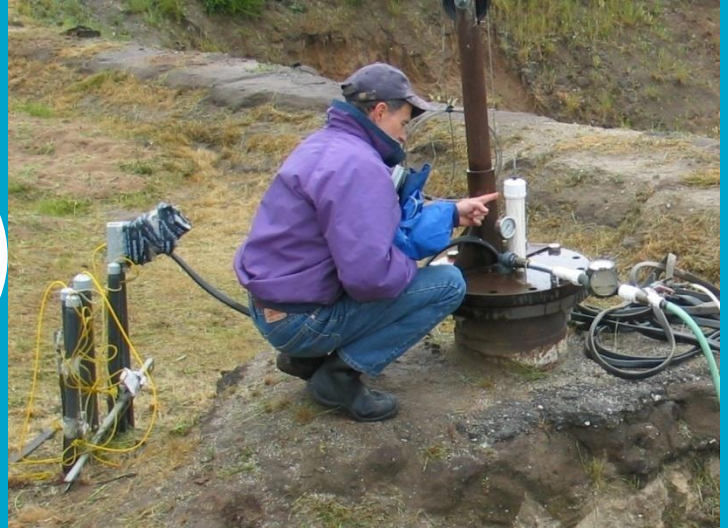
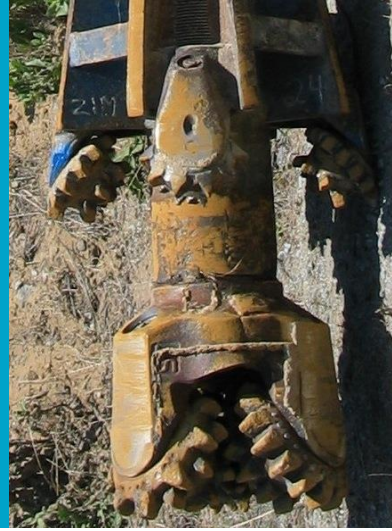
MONTEREY PENINSULA WATER MANAGEMENT DISTRICT





Action Item 14

Receive and Confirm Water Supply Forecast for May 1, 2017 through September 30, 2018 Period

Meeting Date: May 15, 2017
Contact: David J. Stoldt

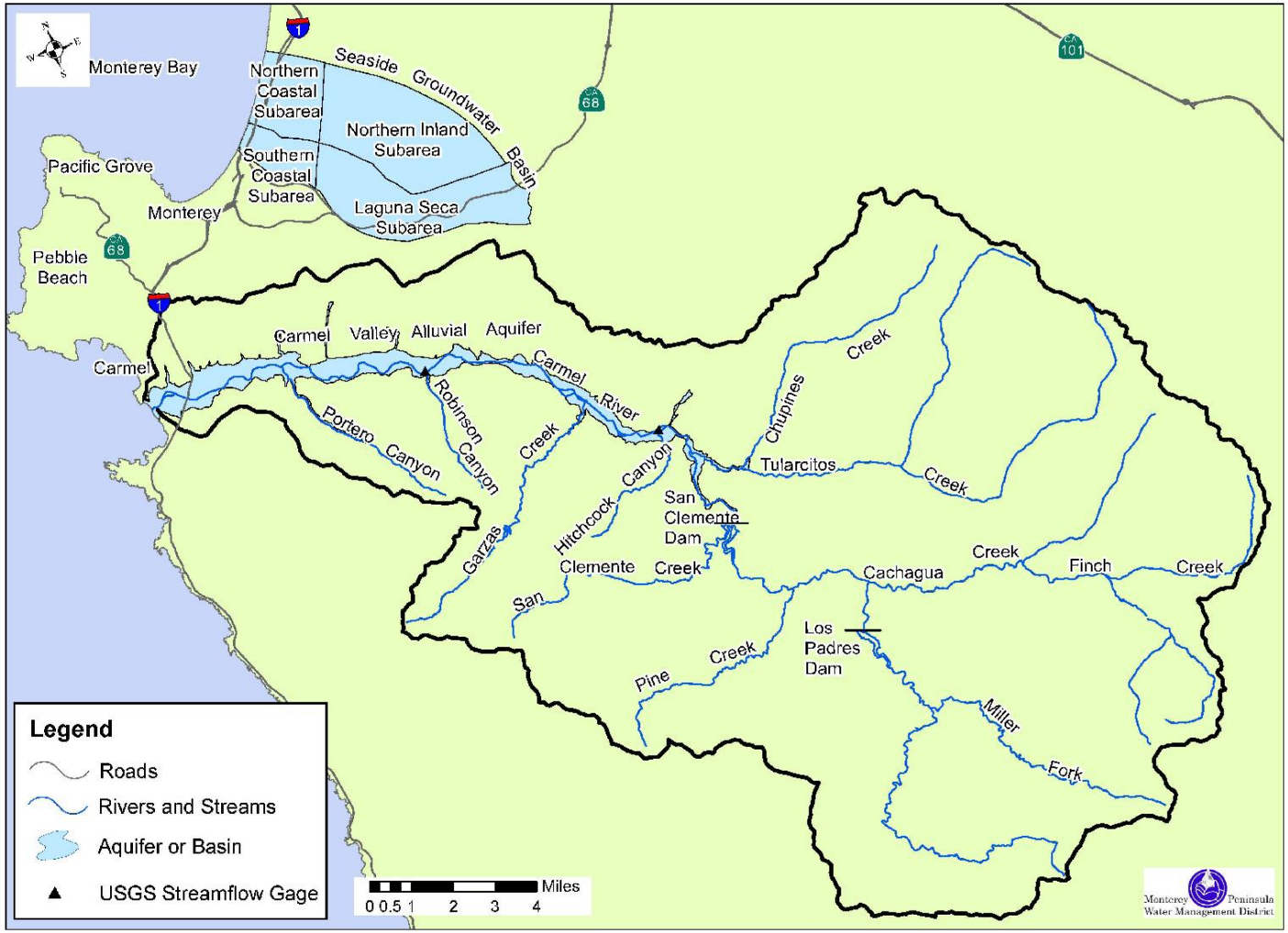
Long-Term Water Supply Forecast: May 2017 – September 2018

- This forecast applies to current and projected water supply and demand conditions in the *Monterey Peninsula Water Resource System*.

- This *system* includes surface water in the Carmel River and its tributaries and groundwater in the Carmel Valley Alluvial Aquifer and Seaside Groundwater Basin.

Long-Term Water Supply Forecast: May 2017 – September 2018

Monterey Peninsula Water Resource System



Long-Term Water Supply Forecast: May 2017 – September 2018

- This forecast considers California American Water (Cal-Am) and non Cal-Am water demands from these sources during the May 2017 through September 2018 period.

- This forecast is based on all usable surface and groundwater storage in the system as of May 1, 2017, which is termed “carryover” storage.

Long-Term Water Supply Forecast: May 2017 – September 2018

Carryover Storage as of May 1, 2017

STORAGE FACILITY	MAXIMUM STORAGE CAPACITY (AF)	CURRENT STORAGE (AF)	PERCENT OF MAXIMUM CAPACITY (%)
RESERVOIR			
LOS PADRES	1,670	1,670	100%
AQUIFERS			
UPPER CARMEL VALLEY	6,530	6,070	93%
LOWER CARMEL VALLEY	21,930	20,920	95%
SEASIDE COASTAL	7,510	3,630	48%
TOTAL SYSTEM	37,640	32,290	86%

Physical Storage Target for the Monterey Peninsula Water Resource System for the May-September 2017 and all WY 2018

PRODUCER	MAY-SEPTEMBER DEMAND	CARRYOVER STORAGE NEEDS FOR NEXT YEAR DEMAND	TOTAL STORAGE REQUIRED ON MAY 1
California American Water (Cal-Am)	5,633	10,130	15,763
Non Cal-Am	1,946	3,046	4,992
Total	7,579	13,176	**20,755**
			TOTAL STORAGE AVAILABLE ON MAY 1
			32,290 [5]

Notes:

1. The May-September period refers to the remainder of the current water year.
2. Carryover storage refers to the volume of usable surface and groundwater that is in storage at the end of the current water year and is projected to be available for use at the beginning of the following water year.
3. Total storage refers to the combination of demand remaining from May 1 to the end of the current water year and carryover storage for the next water year that is required to avoid imposing various levels of water rationing. The value in **bold type** represents the storage trigger that would be used for the system in Water Year 2017. The value is based on the production limits for California American Water (Cal-Am) from Carmel River sources (8,310 acre-feet in WY 2017 and WY 2018) set by State Water Resources Control Board Order WR 2016-0016, the production limit for Cal-Am from the Seaside Groundwater Basin (2,251 acre-feet in WY 2017 and 1,820 AF in WY 2018) set by the Court in its March 27, 2006 adjudication decision , and the production limit specified for non Cal-Am users from the Monterey Peninsula Water Resource System set in the District's Water Allocation Program (Ordinance No. 87).
4. The rationing trigger is based on physical water availability and do not account for legal or environmental constraints on diversions from the Carmel River system.
5. May 1, 2017 System Storage = 32,290 AF (26,990 AF Carmel Valley Alluvial Aquifer; 3,630 AF Seaside Groundwater Basin; 1,670 AF Los Padres Reservoir); this is 101% of average and 86% of system capacity (37,640 AF).

Long-Term Water Supply Forecast: May 2017 – September 2018

- Total usable system storage as of May 1, 2017 is **32,290** acre-feet.
- To avoid mandatory water rationing, **20,755** acre-feet of carryover storage is required.
- Accordingly, the current amount of carryover storage is sufficient to begin Water Year 2018 with a full year's supply in reserve.

Long-Term Water Supply Forecast: May 2017 – September 2018

Notes:

- This *Water Supply Forecast* is based on actual water storage conditions and does not account for other environmental considerations such as riparian and aquatic resources.

- The rationing trigger for this *Water Supply Forecast* has been adjusted to reflect the appropriate reductions in pumping from the Carmel River and Seaside Groundwater Basins.

Long-Term Water Supply Forecast: May 2017 – September 2018

Recommendation:

- Receive the *Long-Term Water Supply Forecast for the Monterey Peninsula Water Resource System* for May 2017 through September 2018.
- Given current carryover storage, mandatory water rationing is not required at this time.
- MPWMD shall continue implementation of its water conservation provisions currently in place.