

ITEM: INFORMATION ITEMS/STAFF REPORT **REVISED April 16, 2018****26. MONTHLY WATER SUPPLY AND CALIFORNIA AMERICAN WATER PRODUCTION REPORT**

Meeting Date:	April 16, 2018	Budgeted:	N/A
From:	David J. Stoldt, General Manager	Program/ Line Item No.:	N/A
Prepared By:	Jonathan Lear	Cost Estimate:	N/A

General Counsel Review: N/A**Committee Recommendation: N/A**

CEQA Compliance: Exempt from environmental review per SWRCB Order Nos. 95-10 and 2016-0016, and the Seaside Basin Groundwater Basin adjudication decision, as amended and Section 15268 of the California Environmental Quality Act (CEQA) Guidelines, as a ministerial project; Exempt from Section 15307, Actions by Regulatory Agencies for Protection of Natural Resources.

Exhibit 27-A shows the water supply status for the Monterey Peninsula Water Resources System (MPWRS) as of **April 1, 2018**. This system includes the surface water resources in the Carmel River Basin, the groundwater resources in the Carmel Valley Alluvial Aquifer and the Seaside Groundwater Basin. **Exhibit 27-A** is for Water Year (WY) 2018 and focuses on four factors: rainfall, runoff, and storage. The rainfall and Streamflow values are based on measurements in the upper Carmel River Basin at Sleepy Hollow Weir.

Water Supply Status: Rainfall through **March** 2018 totaled **5.99 inches** and brings the cumulative rainfall total for WY 2018 to **12.07 inches**, which is **64%** of the long-term average through **March**. Estimated unimpaired runoff during **March** totaled **15,218 acre-feet (AF)** and brings the cumulative runoff total for WY 2018 to **23,092 AF**, which is **44%** of the long-term average through **March**. Usable storage for the MRWPRS was **31,110 acre-feet**, which is **97%** of average through **March**, and equates to **83%** percent of system capacity

Production Compliance: Under State Water Resources Control Board (SWRCB) Cease and Desist Order No. 2016-0016 (CDO), California American Water (Cal-Am) is allowed to produce no more than 8,310 AF of water from the Carmel River in WY 2018. Through **March**, using the CDO accounting method, Cal-Am has produced **2,979 AF** from the Carmel River (including ASR capped at 600 AF, Table 13, and Mal Paso.) In addition, under the Seaside Basin Decision, Cal-Am is allowed to produce 1,820 AF of water from the Coastal Subareas and 0 AF from the Laguna Seca Subarea of the Seaside Basin in WY 2018. Through **March**, Cal-Am has produced **1,643 AF** from the Seaside Groundwater Basin. Through **March**, **341 AF** of Carmel River Basin groundwater have been diverted for Seaside Basin injection; **0 AF** have been recovered for customer use, and **98 AF** have been diverted under Table 13 water rights. Cal-Am has produced **4,538 AF** for customer use from all sources through **March**. **Exhibit 27-C** shows production by source. Some of the values in this report may be revised in the future as Cal-Am finalizes their production values and monitoring data. The 12 month moving average of production for customer service is **9,955 AF**, which is below the rationing trigger of **10,130 AF** for WY 2018.

EXHIBITS**27-A** Water Supply Status: **April 1, 2018****27-B** Monthly Cal-Am Diversions from Carmel River and Seaside Groundwater Basins: WY 2018**27-C** Monthly Cal-Am production by source: WY 2018

EXHIBIT 26-A

**Monterey Peninsula Water Management District
Water Supply Status
April 1, 2018**

Factor	Oct to Mar 2018	Average To Date	Percent of Average	Water Year 2017
Rainfall (Inches)	12.07	18.72	64%	30.23
Runoff (Acre-Feet)	23,092	52,220	44%	169,585
Storage ⁵ (Acre-Feet)	31,110	32,030	97%	32,280

Notes:

1. Rainfall and runoff estimates are based on measurements at San Clemente Dam. Annual rainfall and runoff at Sleepy Hollow Weir average 21.1 inches and 67,246 acre-feet, respectively. Annual values are based on the water year that runs from October 1 to September 30 of the following calendar year. The rainfall and runoff averages at the Sleepy Hollow Weir site are based on records for the 1922-2017 and 1902-2017 periods respectively.
2. The rainfall and runoff totals are based on measurements through the dates referenced in the table.
3. Storage estimates refer to usable storage in the Monterey Peninsula Water Resources System (MPWRS) that includes surface water in Los Padres and San Clemente Reservoirs and ground water in the Carmel Valley Alluvial Aquifer and in the Coastal Subareas of the Seaside Groundwater Basin. The storage averages are end-of-month values and are based on records for the 1989-2017 period. The storage estimates are end-of-month values for the dates referenced in the table.
4. The maximum storage capacity for the MPWRS is currently 37,639 acre-feet.

Production vs. CDO and Adjudication to Date: WY 2018

(All values in Acre-Feet)

Year-to-Date Values	MPWRS						Water Projects and Rights		
	Carmel River Basin ^{2,6}	Seaside Groundwater Basin			MPWRS Total	ASR Recovery	Table 13 ⁷ Sand City ³	Water Projects and Rights Total	
		Coastal	Laguna Seca	Ajudication Compliance				ASR	Sand City
Target	4,210	1,100	0	1,100	5,310	0	170	150	320
Actual ⁴	2,979	1,643	141	1,785	4,763	0	98	88	186
Difference	1,231	-543	-141	-685	547	0	73	62	134
WY 2017 Actual	3,072	1,172	118	1,290	4,362	305	293	110	708

1. This table is current through the date of this report.
2. For CDO compliance, ASR, Mal Paso, and Table 13 diversions are included in River production per State Board.
3. Sand City Desal, Table 13, and ASR recovery are also tracked as water resources projects.
4. To date, 341 AF and 98 AF have been produced from the River for ASR and Table 13 respectively.
5. All values are rounded to the nearest Acre-Foot.
6. For CDO Tracking Purposes, ASR production for injection is capped at 600 AFY.
7. Table 13 diversions are reported under water rights but counted as production from the River for CDO tracking.

Monthly Production from all Sources for Customer Service: WY 2018

(All values in Acre-Feet)

	Carmel River Basin		Seaside Basin	ASR Recovery	Table 13	Sand City	Mal Paso	Total
	Oct-17	Nov-17						
Oct-17	532	396	0	0	14	3	3	945
Nov-17	421	331	0	0	3	3	3	758
Dec-17	399	339	0	0	26	1	1	765
Jan-18	400	267	0	0	25	7	7	699
Feb-18	413	264	0	0	21	7	7	704
Mar-18	374	189	0	98	0	7	7	667
Apr-18								
May-18								
Jun-18								
Jul-18								
Aug-18								
Sep-18								
Total	2,540	1,785	0	98	88	28	28	4,538
WY 2017	2,180	1,290	305	293	110	44	44	4,222

1. This table is produced as a proxy for customer demand.
2. Numbers are provisional and are subject to correction.

Rationing Trigger: WY 2018

12 Month Moving Average¹	9,955	10,130	Rule 160 Production Limit
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1. Average includes production from Carmel River, Seaside Basin, Sand City Desal, and ASR recovery produced for Customer Service.

California American Water Production by Source: Water Year 2018

	Carmel Valley Wells ¹				Seaside Wells ²				Total Wells				Sand City Desal					
	Actual		Anticipated ³		Under Target		Actual		Anticipated		Under Target		Actual		Anticipated		Under Target	
	Upper	Lower	Upper	Lower	Upper	Lower	Coastal	Laguna/Seaca	Coastal	Laguna/Seaca	Coastal	Laguna/Seaca	Coastal	Laguna/Seaca	Coastal	Laguna/Seaca	Coastal	Laguna/Seaca
Oct-17	0	532	0	550	0	18	368	29	350	0	-29	928	900	-28	14	25	11	
Nov-17	0	421	0	383	0	-38	301	30	350	0	-18	752	733	-19	3	25	22	
Dec-17	0	399	0	728	0	329	315	24	100	0	-24	738	828	90	26	25	-1	
Jan-18	0	400	0	673	0	273	247	19	100	0	-147	667	773	106	25	25	0	
Feb-18	0	413	0	559	0	146	242	22	100	0	-142	677	659	-18	21	25	4	
Mar-18	183	630	0	716	-183	86	170	18	100	0	-70	1002	816	-186	0	25	25	
Apr-18																		
May-18																		
Jun-18																		
Jul-18																		
Aug-18																		
Sep-18																		
To Date	183	2,795	0	3,609	-183	814	1,643	141	1,100	0	-543	4,763	4,709	-54	88	150	62	

Total Production: Water Year 2018

	Actual	Anticipated	Acre-Feet Under Target
Oct-17	942	925	-17
Nov-17	755	758	3
Dec-17	764	853	89
Jan-18	692	798	106
Feb-18	698	684	-14
Mar-18	1,002	841	-161
Apr-18			
May-18			
Jun-18			
Jul-18			
Aug-18			
Sep-18			
To Date	4,852	4,859	7

1. Carmel Valley Wells include upper and lower valley wells. Anticipate production from this source includes monthly production volumes associated with SBO 2009-60, 20808A, and 20808C water rights. Under these water rights, water produced from the Carmel Valley wells is delivered to customers or injected into the Seaside Groundwater Basin for storage.
2. Seaside wells anticipated production is associated with pumping native Seaside Groundwater (which is regulated by the Seaside Groundwater Basin Adjudication Decision) and recovery of stored ASR water (which is prescribed in a MOA between MPWMD, Cal-Am, California Department of Fish and Game, National Marine Fisheries Service, and as regulated by 20808C water right).
3. Negative values for Acre-Feet under target indicates production over targeted value.