ITEM: INFORMATIONAL ITEMS/STAFF REPORT

25. MONTHLY WATER SUPPLY AND CALIFORNIA AMERICAN WATER PRODUCTION REPORT

Meeting Date: April 18, 2016 Budgeted: N/A

From: David J. Stoldt, Program/ N/A

General Manager Line Item No.:

Prepared By: Jonathan Lear Cost Estimate: N/A

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

CEQA Compliance: N/A

Exhibit 25-A shows the water supply status for the Monterey Peninsula Water Resources System (MPWRS) as of **April 1, 2016**. 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 25-A** is for Water Year (WY) 2016 and focuses on four factors: rainfall, runoff, storage, and steelhead. The rainfall and Streamflow values are based on measurements in the upper Carmel River Basin at San Clemente Dam.

Water Supply Status: As shown, rainfall through March 2016 totaled 5.47 inches and brings the cumulative rainfall total for WY 2016 to 21.47 inches, which is 115% of the long-term average through March. Estimated unimpaired runoff during March 2016 totaled 21,686 acre-feet (AF) and brings the cumulative runoff total for WY 2016 to 37,199 AF, which is 71% of the long-term average through March. Usable storage, which includes surface and groundwater, was 28,560 or 97% of the long-term average at the beginning of March. This storage equates to 76% of system capacity.

Production Compliance: Under State Water Resources Control Board (SWRCB) Cease and Desist Order No. 2009-0060, California American Water (Cal-Am) is allowed to produce no more than 9,703 AF of water from the Carmel River in WY 2016. In addition, under the Seaside Basin Decision, Cal-Am is allowed to produce 2,251AF of water from the Coastal Subareas and 48 AF from the Laguna Seca Subarea of the Seaside Basin in WY 2016. Altogether, Cal-Am is currently allowed to produce 11,954 AF from Carmel River and Seaside Coastal sources for customers in its main Monterey system and 48 AF from the Laguna Seca Subarea for customers in Ryan Ranch, Hidden Hills, and Bishop Systems (not adjusted for Sand City Desalination). For WY 2016 through March, Cal-Am has produced 4,743 AF from the Carmel River (including ASR and Table 13), and Seaside Basin. This water production is 427 AF or 8.3 % less than the target specified for Cal-Am's production from the MPWRS for WY 2016 to date. Cal-Am has produced 4,129 AF for customer use through March. A breakdown of Cal-Am's production for WY 2016 is included as Exhibit 25-B. For WY 2016 through March, 647 AF of Carmel River Basin groundwater have been diverted for Seaside Basin injection; 0 AF have been recovered for customer use and 133 AF have been diverted under Table 13. Exhibit 25-C shows production breakdown from all sources for all uses. Some of the values in this report may be revised in the future as Cal-Am finalizes their production values and monitoring data.

EXHIBITS

25-A Water Supply Status: April 1, 2016

25-B Monthly Cal-Am Diversions from Carmel River and Seaside Groundwater Basins:

Water Year 2016

25-C Monthly Cal-Am production by source: WY 2016

EXHIBIT 25-A

Monterey Peninsula Water Management District Water Supply Status April 1, 2016

F	Tactor	Water Year 2016 Oct - Mar	Average To Date	Percent of Average	Water Year 2015 Oct - Mar
	Rainfall (Inches)	21.47	18.68	115%	14.27
	Runoff (Acre-Feet)	37,199	52,351	71%	19,809
	Storage (Acre-Feet)	28,560	32,100	97%	30,990

Notes:

- 1. Rainfall and runoff estimates are based on measurements at San Clemente Dam. Annual rainfall and runoff at San Clemente Dam average 21.1 inches and 67,442 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 San Clemente Dam site are based on records for the 1922-2015 and 1902-2015 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 1989-2015 period. The storage estimates are end-of-month values for the dates referenced in the table.
- 4. The maximum usable storage capacity for the MPWRS at this time, with the flashboard in at Los Padres Dam and no capacity at San Clemente Dam, is 37,639 acre-feet.
- 5. The adult steelhead count historically provided for fish that migrate up the fish ladder at San Clemente Dam is no longer available subsequent to the removal of the dam in 2015.

EXHIBIT 25-B

Production vs. CDO and Adjudication to Date: WY 2016

(All values in Acre-Feet)

		Carmel	Seaside Gro Ba		Water Ri	ghts and Pro	ojects ⁷		
	Year-to-Date	River		Laguna	ASR	Table 13	Sand	MPWRS	Percent Below
	Values	Basin ²	Coastal	Seca	Recovery		City ³	Total	Target
	Target	3,731	1,100	19	0	170	150	5,170	8.3%
	Actual ⁴	3,881	733	128	0	133	34	4,743	0.5 / 0
=	Difference	-150	367	-109	0	37	116	427	

- 1. This table is current through the last populated month of the table below.
- 2. For CDO compliance, ASR and Table 13 diversions are included in River production per State Board.
- 3. Sand City Desal is not part of the MPWRS production and is tracked as a new source.
- 4. To date, 647 AF and 133 AF have been produced from the River for ASR and Table 13 respectively.

Monthly Production from all Sources for Customer Service: WY 2016

(All values in Acre-Feet)

	Carmel River	Seaside Basin	ASR Recovery	Table 13	Sand City	Total
r			Recovery			
Oct-15	568	288	0	0	11	867
Nov-15	479	187	0	0	0	666
Dec-15	527	117	0	0	0	644
Jan-16	495	87	0	42	2	627
Feb-16	606	44	0	10	5	664
Mar-16	427	139	0	81	15	662
Apr-16						
May-16						
Jun-16						
Jul-16						
Aug-16						
Sep-16						
_	-				-	
Total	3,101	861	0	133	34	4,129

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

EXHIBIT 25-C

California American Water Production by Source: Water Year 2016

			Carmel V	alley We	lls ¹			Seaside Wells ²						Total Wells	S	Sand City Desal		
	Act	ual	Antici	pated ³	Under	Target	A	ctual	Ant	icipated	Under	[.] Target	Actual	Anticipated	Acre-Feet Under Target	Actual	Anticipated	Under Target
	Upper	Lower	Upper	Lower	Upper	Lower	Coastal	LagunaSeca	Coastal	LagunaSeca	Coastal	LagunaSeca						
	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet	acre-feet
Oct-15	0	568	0	568	0	0	258	31	400	5	142	-26	856	973	117	11	25	14
Nov-15	0	479	0	479	0	0	166	21	300	3	134	-18	665	782	116	0	25	25
Dec-15	0	527	35	637	35	110	97	20	100	3	3	-17	644	775	131	0	25	25
Jan-16	85	662	0	725	-85	63	69	19	100	3	31	-16	835	828	-7	2	25	23
Feb-16	53	622	0	926	-53	304	25	19	100	2	75	-17	719	1,028	309	5	25	20
Mar-16	154	731	0	1,011	-154	280	119	19	100	3	-19	-16	1024	1,114	90	15	25	10
Apr-16																		
May-16																		
Jun-16 Jul-16																		
Aug-16																		
Sep-16																		
5cp-10																		
To Date	293	3,589	35	4,345	-258	756	733	128	1,100	19	367	-109	4,743	5,499	756	34	150	116

Total Production: Water Year 2016

	Actual	Anticipated	Acre-Feet Under Target
Oct-15 Nov-15 Dec-15 Jan-16 Feb-16 Mar-16 Apr-16 May-16 Jun-16 Jul-16 Aug-16 Sep-16	867 666 644 837 723 1,039	998 807 800 853 1,053 1,139	131 141 156 16 329 100
To Date	4,776	5,649	873

^{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 Ajudication 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.} Current "anticipated" water budget reflects "Normal" Carmel River inflow conditions and monthly distribution of production based on long-term averages for the Cal-Am system.