



Public Hearing Item 13:

Consider Adoption of January – March
2012 Quarterly Water Supply Strategy
and Budget for California American Water

December 12, 2011 Regular Meeting
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CALIFORNIA AMERICAN WATER QUARTERLY WATER SUPPLY BUDGET: January – March 2012

- Applies to California American Water (Cal-Am) reservoir and well operations in the Carmel River and Seaside Groundwater Basins.
- Consistent with SWRCB Orders 95-10, 98-04, 2002-02, and 2009-0060, the NMFS Conservation and Settlement Agreements, DWR San Clemente Reservoir Drawdown Project, and Seaside Groundwater Basin adjudication decision.
- The budget for October – December 2011 utilized all Water Project 1 (Phase 1 ASR) capacity stored in Water Year 2011.
- The budget for January – March 2012 plans for the storage of any available water to both Water Projects 1 & 2 (ASR).

CALIFORNIA AMERICAN WATER QUARTERLY WATER SUPPLY BUDGET: January – March 2012

- Includes the second set of reductions in Cal-Am's diversions from the Carmel River specified in SWRCB Order WR 2009-0060. Next reductions come in Water Year 2013.
- Includes the second set of reductions in Cal-Am's diversions from Seaside Groundwater Basin as specified in the adjudication, though formal action taken by the Water Master Board. Next reductions in Water Year 2015.
- Assumes long-term median (1902-2011) monthly inflow conditions characteristic of a Normal Water Year Type, for the rest of WY 2012.
- Developed cooperatively by staff from MPWMD, Cal-Am, California Department of Fish and Game (CDFG), and the National Marine Fisheries Service (NMFS).

CAL-AM QUARTERLY WATER SUPPLY BUDGET: MAIN SYSTEM PRODUCTION TARGETS

January - March 2012

Proposed Production Values by Source in Acre-Feet

SOURCE/USE	MONTH		
	Jan-12	Feb-12	Mar-12
<u>Source</u>			
San Clemente Reservoir	0	0	0
Carmel Valley Aquifer			
Upper Subunits	0	0	0
Lower Subunits	834	863	1,016
Seaside Groundwater Basin			
Coastal Subareas	186	174	186
Phase 1 ASR Recovery	0	0	0
Sand City Desalination	25	25	25
Total	1,045	1,062	1,227
<u>Use</u>			
Customer Service	815	762	887
Phase 1 ASR Storage	230	300	340
Total	1,045	1,062	1,227

CAL-AM QUARTERLY WATER SUPPLY BUDGET: LAGUNA SECA SUBAREA SYSTEMS PRODUCTION TARGETS

January - March 2012

Proposed Production Targets in Acre-Feet

SOURCE/USE	MONTH		
	Jan-12	Feb-12	Mar-12
<u>Source</u>			
Seaside Groundwater Basin			
Laguna Seca Subarea	7	6	9
Other	0	0	0
Total	7	6	9
<u>Use</u>			
Customer Service	7	6	9



CAL-AM QUARTERLY WATER SUPPLY BUDGET: January – March 2012

Recommendation:

- Adopt proposed water supply strategy and budget for Cal-Am's Main and Laguna Seca water distribution systems for the January – March 2012 period.



Draft 2012 Low Flow Season Targets

EXHIBIT 13-C, TABLE 1 [Version 2]

2012 [Draft] Low Flow Memorandum of Agreement & Quarterly Water Budget

Carmel River Reservoirs: Diversion and Release Schedule (All Values in Acre-Feet, except as indicated)

Assuming Normal Water Year Inflow Conditions [December 2011-December 2012] & LPR Drawdown to 995' Elevation = 315 AF

	Oct-11	Nov-11	Dec-11	Jan-12	Feb-12	Mar-12	Apr-12	May-12	Jun-12	Jul-12	Aug-12	Sep-12	Oct-12	Nov-12	Dec-12	WY 2012
Los Padres Reservoir																
Inflow	780	889	1,859	5,125	8,792	9,417	4,787	2,265	862	281	62	55	190	498	1,859	35,174
Outflow																
Evaporation	9	6	5	13	13	34	33	36	50	57	60	44	19	11	5	360
Spillage	0	0	657	4,497	8,224	8,769	4,159	1,614	174	0	0	0	0	0	0	28,094
Release (Fish Ladder)	615	595	615	615	555	615	595	615	595	470	470	455	470	455	615	6,809
Release (Outlet)	433	253	0	0	0	0	0	0	0	0	0	0	0	0	0	686
Release (Notch)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Storage																
Beginning of Month	1,390	1,114	1,149	1,731	1,731	1,731	1,731	1,731	1,731	1,775	1,528	1,060	616	317	348	
End of Month	1,114	1,149	1,731	1,731	1,731	1,731	1,731	1,731	1,775	1,528	1,060	616	317	348	1,588	
Between Reservoirs																
Inflow	143	325	465	1,281	2,198	2,354	1,197	566	215	70	15	14	47	124	465	8,843
Outflow																
Evapotranspiration	37	21	16	21	20	37	53	61	63	68	58	53	37	21	16	507
Private Usage	5	2	2	2	2	2	5	7	8	8	8	6	5	2	2	58
San Clemente Reservoir																
Inflow	1,149	1,150	1,718	6,370	10,955	11,698	5,893	2,727	912	464	419	411	475	556	1,062	43,867
Outflow																
Evaporation	4	0	2	5	6	13	14	11	16	14	11	9	4	3	4	105
Spillage	0	0	974	5,689	10,338	11,009	5,225	2,040	242	0	0	0	0	0	315	35,518
Diversion (Filter Plant)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Release (Valve)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Release (Six Ports)	1,084	1,091	0	0	0	0	0	0	0	454	347	342	410	493	0	3,318
Release (Fish Ladder)	0	0	615	615	555	615	595	615	595	0	0	0	0	0	615	4,204
Leakage	61	59	61	61	56	61	59	61	59	61	61	59	61	59	61	724
Total Storage																
Beginning of Month	71	71	71	137	137	137	137	137	137	137	71	71	71	71	71	
End of Month	71	71	137	137	137	137	137	137	137	71	71	71	71	71	137	
Total Release	1,146	1,150	1,650	6,365	10,949	11,685	5,879	2,716	896	516	408	401	471	553	992	43,764
Mean Daily Release in cfs	18.6	19.3	26.8	103.5	197.2	190.1	98.8	44.2	15.1	8.4	6.6	6.7	7.7	9.3	16.1	
Mean Daily Diversion in cfs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
Mean Daily Diversion in cfs (Russell Wells)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	

Notes:

- The minimum pool requirements at Los Padres and San Clemente Reservoirs are 105 acre-feet at elevation 980ft and 71 acre-feet at elevation 515 ft, respectively.
- Projected inflows for the December 2011 through December 2012 period are based on the expectation that unimpaired flows at San Clemente Dam will represent a "Normal" Water Year Type or 50% exceedance values for reconstructed unimpaired monthly historical flows (WY 1902-2011).
- Projected inflow to San Clemente Reservoir is distributed 80% above Los Padres Dam and 20% between Los Padres and San Clemente Dams.
- Estimated evaporation from LPR/SCR is based on average monthly reservoir surface area and gross monthly evaporation rates developed by the US Army Corps of Engineers (1981).
- Releases and diversions are consistent with terms of the 2001 and 2006 Conservation Agreements between the NMFS and Cal-Am and with the conditions in SWRCB Order Nos. 95-10, 98-04, 2002-0002, and 2009-0060.
- Numbers in **Bold** type are final reported numbers, and those in *Italics* are future estimates.