

City of Garden Grove

Amendments to 2015 Urban Water Management Plan

November 2017



City of Garden Grove
Amendments to 2015 Urban Water Management Plan (UWMP)

Contents

Revisions to Section 5.2.4 Table 5-1 – Provides an outline of specific water supply conditions applicable to each stage of water supply reduction as well as assigning percent reduction in water supply to each stage up to a 50 percent reduction to address CWC 10632.

Revisions to Section 5.5.3 Table 5-4 – Consumption reduction methods included to address CWC 10632 (a) (5).

Revisions to Section 2.5.1 – Calculations to substantiate volume of indirect recycled water reported in SBX7-7 to address CWC 10608.52 (b) are now included in the report.

Addition of Section 8.4 – Provides an outline of the steps the City is taking to adopt the Amended UWMP including publicizing a public hearing, holding a public hearing, adopting the UWMP, and submitting the UWMP to the appropriate agencies.

Appendices

Addition of Appendix E-1 – Notice of Public Hearing Notice for Amended UWMP.

Addition of Appendix F-1 – Resolution of the Amended UWMP adoption.

5.2.4 City of Garden Grove

City Council adopted Water Conservation Ordinance No. 2858 on June 23, 2015, which established a staged water conservation program that will encourage reduced water consumption within the City through conservation, enable effective water supply planning, assure reasonable and beneficial use of water, prevent waste of water, and maximize the efficient use of water within the City. Along with permanent water conservation requirements, the City's Water Conservation Program consists of four stages to respond to a reduction in potable water available to the City for distribution to its customers. A summary of the stages of water shortage is displayed in Table 5-1 (Garden Grove, Ordinance Number 2858, June 2015). The City does not have set percent supply reduction for each water shortage stage. The City will implement the percent supply reduction on its own discretion as it enters into a water shortage stage.

Table 5-1: Stages of Water Shortage Contingency Plan

Retail Stages of Water Shortage Contingency Plan		
Stage	Complete Both	
	Percent Supply Reduction	Water Supply Condition
1	n/a	Times of regional drought when the City assists in overall water conservation and water consumption reduction.
2	10 – 19 %	Periods when the City determines water supply shortage or threatened shortage exists and a consumer demand reduction is necessary
3	20 – 49 %	Periods when there is a critical differential between supply and demand
4	50% +	Period of severe drought and/or when a major failure of any supply or distribution facility occurs in water distribution systems
NOTES:		

5.5.3 Consumption Reduction Methods

Table 5-4 lists the consumption reduction methods that will be used to reduce water use in restrictive stages.

Table Error! No text of specified style in document.-1: Stages of Water Shortage Contingency Plan - Consumption Reduction Methods

Retail Only: Stages of Water Shortage Contingency Plan - Consumption Reduction Methods		
Stage	Consumption Reduction Methods by Water Supplier	Additional Explanation or Reference
All	Expand Public Information Campaign	The City provides public education through its wholesaler MWDOC. Along with a public website, MWDOC oversees school programs, posts water news in the local newspaper, holds quarterly Water Policy Dinners, hosts an annual Water summit, and shows water facilities to the public.
All	Provide Rebates on Plumbing Fixtures and Devices	Program administered by MWDOC offers rebates to CII and residential customers on devices such as laminar flow restrictors, dry vacuum pumps, premium high efficiency toilets.
All	Provide Rebates for Landscape Irrigation Efficiency	Program administered by MWDOC offers rebates to CII and residential customers on devices such as spray nozzles, drip irrigation, smart irrigation timers, soil moisture sensor, in-stem flow regulator.
All	Provide Rebates for Turf Replacement	Program administered by MWDOC offers turf removal rebates to CII and residential customers.
All	Reduce System Water Loss	The City has an ongoing leak detection program where employees check for leaks while reading meters, working on rehabilitation projects, and performing other field maintenance activities.
All	Offer Water Use Surveys	Program administered by MWDOC.
All	Other	The City has designated two water conservation coordinators on staff who manage all water conservation and related outreach programs.
NOTES:		

Deduct Recycled Water Used for Indirect Potable Reuse [1]

Fiscal Year Ending	Total Groundwater Recharge	(1) 5-Year Average Recharge (Acre-Feet)	(2) Loss Factor for Recharge & Recovery [2]	(1) x (2) = (3) Volume Entering Distribution System (Acre-Feet)	(4) Total Basin Production	(3) / (4) = (5) Percent of Total Basin Production	(6) Agency Groundwater Production	(5) x (6) = (7) Recycled Water Used for Groundwater Replenishment
1990	6,498	6,498	96.5%	6,271	229,878	2.73%	16,927	462
1991	6,634	6,498	96.5%	6,271	235,532	2.66%	19,661	523
1992	6,843	6,566	96.5%	6,336	244,333	2.59%	20,213	524
1993	8,161	6,658	96.5%	6,425	243,629	2.64%	18,828	497
1994	5,042	7,034	96.5%	6,788	237,837	2.85%	23,362	667
1995	2,738	6,636	96.5%	6,403	276,096	2.32%	25,388	589
1996	4,282	5,884	96.5%	5,678	302,273	1.88%	28,442	534
1997	4,389	5,413	96.5%	5,224	310,217	1.68%	28,203	475
1998	2,496	4,922	96.5%	4,750	297,726	1.60%	27,487	439
1999	3,489	3,789	96.5%	3,657	322,476	1.13%	28,433	322
2000	5,774	3,479	96.5%	3,357	320,250	1.05%	24,986	262
2001	2,067	4,086	96.5%	3,943	323,129	1.22%	23,301	284
2002	4,143	3,643	96.5%	3,515	322,590	1.09%	23,261	253
2003	3,867	3,594	96.5%	3,468	274,927	1.26%	19,276	243
2004	1,784	3,868	96.5%	3,733	272,954	1.37%	17,475	239
2005	4,156	3,527	96.5%	3,404	232,199	1.47%	16,650	244
2006	4,086	3,203	96.5%	3,091	215,172	1.44%	13,769	198
2007	218	3,607	96.5%	3,481	284,706	1.22%	15,016	184
2008	17,792	2,822	96.5%	2,723	351,622	0.77%	23,116	179
2009	54,261	5,607	96.5%	5,411	310,586	1.74%	18,905	329
2010	65,950	16,103	96.5%	15,539	273,889	5.67%	16,119	915
2011	66,083	28,461	96.5%	27,465	248,659	11.05%	15,005	1,657
2012	71,678	40,861	96.5%	39,431	266,066	14.82%	16,285	2,413
2013	72,877	55,153	96.5%	53,223	298,175	17.85%	18,911	3,376
2014	66,167	66,170	96.5%	63,854	318,967	20.02%	21,025	4,209
2015	76,546	68,551	96.5%	66,152	296,292	22.33%	17,408	3,887

[1] Indirect is recycled water for groundwater recharge through spreading and injection of GWRS and Water Factory 21. The yearly totals are apportioned among the OCWD Basin agencies on the basis of groundwater production over a five year rolling average.

[2] Loss factor provided by OCWD, includes loss over county lines to LA Basin.

Note: The amount of water injected into the GW Basin includes both barrier injection and percolation. Discrepancies between this supplemental document and numbers reported in Table 4-B of the SBx 7-7 verification forms can be attributed to rounding in intermediary calculations and conversion factors.

8.4 UWMP Amendment Process

8.4.1 Resubmitting UWMP

As requested by DWR, the City resubmitted their 2015 UWMP to address certain sections of the California Water Code that were not covered by the original plan. After making edits to the UWMP, the City went through the adoption process once more. Table 8-3 presents a summary of the steps taken by the City in adopting the amended UWMP.

Table 8-3: External Coordination and Outreach for Resubmitting UWMP

External Coordination and Outreach	Date	Reference
Public notification		Appendix E-1
Held public hearing		Appendix E-1
Adopted UWMP		Appendix F-1
Submitted UWMP to DWR	12/1/17	-
Submitted UWMP to the California State Library and city or county within the supplier's service area	12/1/17	-
Made UWMP available for public review	12/31/17	-

Again, the opportunity was presented to the public for comments and questions concerning the UWMP. The City published a public hearing notification in the local newspaper for the amended UWMP which can be viewed in Appendix E-1. After the public hearing, the City Council reviewed and approved the Amended UWMP on November 14, 2017. Appendix F-1 includes the resolution approving the Amended UWMP. By December 1, 2017, the City's Amended UWMP will be resubmitted to DWR, California State Library, and County of Orange. The Amended UWMP will be available for public review no later than 30 days after filing with DWR.