

FISCAL IMPACT

There is no financial impact that will result from this action.

COMMUNITY VISION IMPLEMENTATION

This project will assist with maintaining and enhancing the City's assets, maximizing their value, longevity, and usefulness to the health and safety of the community.

RECOMMENDATION

It is recommended that the City Council:

- Hold a Public Hearing to hear public testimony and receive written protests from property owners.
- Adopt the attached resolution for amending the 2005 Urban Water Management Plan.


KEITH G. JONES
Public Works Director


By: David E. Entsminger
Water Services Manager

Attachment: Amendment
Resolution


Approved for Agenda Listing

Matthew Fertal
City Manager

Final Amendment

To the City of Garden Grove's 2005 Urban Water Management Plan (UWMP)

June 24, 2008

This Amendment addresses the Department of Water Resources' (DWR) comments on the City of Garden Grove's (City) 2005 Urban Water Management Plan as follows:

1. Groundwater Identified as Existing or Planned Source

- a. **DWR Comment** – Need groundwater management plan
- b. **City of Garden Grove Response** – The Orange County Water District is responsible for management of the groundwater basin from which the City pumps a portion of its water supply. Therefore, the City has not prepared its own groundwater management plan. A copy of OCWD's 2004 Groundwater Management Plan can be obtained from their website (<http://www.ocwd.com/assets/pdfs/2004GWMP.pdf>). A copy of that OCWD report will also be provided to DWR in digital form on a CD.

2. Table 8 – Supply Reliability in Acre Feet per Year (AFY)

- a. **DWR Comment** – Need to Address Table 8.
- b. **City of Garden Grove Response** – A revised Table 8 is provided on the next page. This table provides supply reliability figures based on MWDOC's single dry year (1961) and multiple dry year (1959-1961) historic data points. Pertinent information has been extracted from MWDOC's 2005 UWMP based on their computer model using that historic data.

Reliability of Supply

- Describes the reliability of the water supply and vulnerability to seasonal or climatic shortage

Table 8 Supply Reliability - AF Year				
Average / Normal Water Year	Single Dry Water Year (1961)	Multiple Dry Water Years		
		Year 1 (1959)	Year 2 (1960)	Year 3 (1961)
Local Supply				
19,854 ⁽¹⁾	19,040	19,060	19,040	19,040
% of Normal ⁽²⁾	95.9%	96.0%	95.9%	95.9%
Imported Supply				
11,168 ⁽³⁾	13,658	13,145	12,754	13,658
% of Normal ⁽⁴⁾	122.3%	117.7%	114.2%	122.3%
Total Supply				
31,022	32,698	32,205	31,794	32,698
% of Normal	105.4%	103.8%	102.3%	105.4%

- (1) From Table 2.2-1 and Table 4, Appendix B, actual 2005 local supply
- (2) From MWDOC's 2005 UWMP, Table 8-A, 2005-2010 local supply availability
- (3) From Table 4, Appendix B, actual 2005 imported supply
- (4) From MWDOC's 2005 UWMP, Table 8-A, 2005-2010 imported supply availability

3. Water Use Provisions

- a. **DWR Comment** – Need past, current and projected water use for commercial, industrial, institutional, landscape and other.
- b. **City of Garden Grove Response** – The requested information is provided on the next page:

Water Use Sectors	2000		2005		2010	
	Metered		Metered		Metered	
	# of accts	Deliv. AFY	# of accts	Deliv. AFY	# of accts	Deliv. AFY
Single family Residential	29,004	13,717	29,146	14,217	29,210	14,199
Multi-family Residential	1,675	5,521	1,712	5,924	1,863	6,344
Commercial	1,629	4,314	1,710	4,159	1,817	4,283
Industrial	454	2,247	333	1,700	340	1,735
Institutional	118	2,058	149	2,067	150	2,070
Agriculture	12	14	4	11	4	11
Recycled Water	0	0	0	0	0	0
Landscape/Recreation	237	666	306	616	310	625
Other	538	18	568	37	570	37
Total	33,667	28,555	33,928	28,731	34,264	29,304

Water Use Sectors	2015		2020		2025		2030	
	Metered		Metered		Metered		Metered	
	# of accts	Deliv. AFY	# of accts	Deliv. AFY	# of accts	Deliv. AFY	# of accts	Deliv. AFY
Single family Residential	29,323	14,175	29,436	14,144	29,549	14,427	29,662	14,715
Multi-family Residential	1,961	6,779	2,059	7,229	2,157	7,374	2,255	7,521
Commercial	1,912	4,243	2,007	4,212	2,102	4,194	2,197	4,170
Industrial	350	1,790	360	1,840	370	1,890	380	1,940
Institutional	160	2,210	170	2,350	180	2,480	190	2,620
Agriculture	4	11	4	11	4	11	4	11
Recycled Water	0	0	0	0	0	0	0	0
Landscape/Recreation	320	645	330	665	340	685	350	705
Other	570	37	570	37	570	37	570	37
Total	34,600	29,890	34,936	30,488	35,272	31,098	35,608	31,719

4. Planned Water Supply Projects and Programs

- a. **DWR Comment** – Are projects on page 4-30 going to increase water supply to the city? If so then discuss increase supply in terms of normal, single-dry and multiple-dry years.
- b. **City of Garden Grove Response** – Page 4-30 of the City's 2005 UWMP references the following specific improvement projects:
 - Well 16: Improve, replace, or construct building and SCADA system, and convert to sodium hypochlorite bulk system (2004-2006)
 - Well 19: Improve, replace, or construct building and SCADA system, and convert to sodium hypochlorite bulk system (2006-2007)
 - Westhaven Reservoir: Improve, replace, or construct building and SCADA system, and convert to sodium hypochlorite bulk system (2007-2008)

- Wells 24 & 25: Improve, replace, or construct building and SCADA system, and convert to sodium hypochlorite bulk system (2004-2005)
- Well 30: Design and construct a new well, building, and SCADA system, including on-site generation (chlorination) (2006-2007)

As noted on page 4-30, the Well 16, 19, 24 and 25 projects and the Westhaven Reservoir project will improve the City's water supply reliability and enhance operations by improving, replacing or constructing new buildings, supervisory control and data acquisition (SCADA) systems and related disinfection storage equipment. None of these improvements will increase the supply of water available to the City.

The last project on the list, the design and construction of a new Well 30, will also not result in an increase in the supply of water available to the City. The total volume of water pumped by Garden Grove is strictly regulated by the Orange County Water District through the periodic establishment and/or modification of the Basin Production Percentage or BPP. The BPP sets an upper limit for water pumped from all wells by the City. Thus, even with a new Well 30, the City will not be able to pump more water than allotted by the BPP.

It should also be noted that Well 24 has been removed from service since preparation of the City's 2005 UWMP. However, removal of this well will not have any impact on the overall supply of water available to the City because of the BPP limits referenced in the prior paragraph.

5. Water Shortage Contingency Plan Section – Stages of Action

- a. **DWR Comment** – Need to address % shortage for each stage condition
- b. **City of Garden Grove Response** – As noted on page 7-1 of the City's 2005 UWMP, in the event of a water shortage, the City Manager or a designated representative is authorized and directed by the City Council to implement the provisions of the Water Conservation Program and Water Shortage Contingency Plan. As noted in Table 7.1-1 on page 7-2 of the Garden Grove's 2005 UWMP, the City's Water Conservation Program includes the following four stages of water shortage actions (with intended water usage reductions noted):
 - i. Stage 1 – Voluntary Conservation Water Watch – While no specific reduction is called for, the intent a Stage 1 declaration is to garner the public's support for water conservation and water use efficiency during times of regional drought.
 - ii. Stage 2 – Mandatory Conservation Water Alert – A Stage 2 declaration is declared when there is a probability that the City will not be able to meet the

water demands of its customers. No specific percentage reductions are called for in this Stage, but it is generally intended that a 10 percent overall reduction in water usage will be achieved.

- iii. Stage 3 – Mandatory Conservation Water Warning – A Stage 3 declaration is declared when the City will not be able to meet the water demands of its customers. During this stage, many reductions are called for as detailed on pages 7-11 and 7-12 of the City's 2005 UWMP. In some instances specific 20 percent reductions are called for, such as in the case of all types of commercial car washes. While reductions for other uses are not specifically cited in the City's Ordinance 2172 (Appendix F in the City's 2005 UWMP), it can be inferred that a 20 percent reduction is intended for overall water usage during Stage 3.
- iv. Stage 4 – Mandatory Conservation Water Emergency – A Stage 4 declaration is declared during periods of severe drought and/or when a major failure of any supply or distribution facility, whether temporary or permanent, occurs in the water distribution system of the State Water Project, MWD, MWDOC or the City of Garden Grove system. As noted on page 7-12 of the City's 2005 UWMP, the use of water for commercial, manufacturing or processing purposes shall be reduced in volume by 50 percent during Stage 4. Also, as further noted on page 7-12, each of the mandatory water conservation measures would be strictly enforced during Stage 4 and it is anticipated that this would collectively generate a 50 percent or greater reduction in overall water usage in the City.

Taking this information into consideration, Table 23 is presented on the next page:

Water Shortage Contingency Plan Section		(Water Code § 10632)	
Stages of Action		(Water Code § 10632 (a))	
X	Provide stages of action	Sec 7, p.7-1	Reference & Page Number
X	Provide the water supply conditions for each stage	Sec 7, p.7-2	Reference & Page Number
X	Includes plan for 50 percent supply shortage	Sec 7, p.7-11	Reference & Page Number

Table 23 Water Supply Shortage Stages and Conditions RATIONING STAGES		
Stage No.	Water Supply Conditions	% Shortage
Shortage Stage 1	Regional drought	NA
Shortage Stage 2	Probability cannot meet all water demands	10%
Shortage Stage 3	Will not be able to meet all water demands	20%
Shortage Stage 4	Severe drought/major failure of supply/distribution facilities	50% or greater

Note: No DWR comments were received on the City's Demand Management Measures (DMM). Therefore no additional DMM information is included in this Amendment.

RESOLUTION NO. _____

A RESOLUTION OF THE CITY COUNCIL OF THE CITY OF GARDEN GROVE
AMENDING ITS URBAN WATER MANAGEMENT PLAN PURSUANT TO CALIFORNIA
WATER CODE 10610 TO 10657

WHEREAS, in 2005, the City of Garden Grove completed an update to its 2000 Urban Water Management Plan (2005 Plan) pursuant to the requirements of the Urban Water Management Planning Act of 1983 (the "Act"); and

WHEREAS, the purpose of the 2005 Plan is to provide a local perspective and analysis of the current and alternative water demand, supplies and conservation activities of the City, and also addresses the effects and measures of coping with short-term and chronic water shortages within the City boundaries; and

WHEREAS, the 2005 Plan will be periodically updated, no less than every five years in the years ending in zero and five, to reflect changes in water supply trends and conservation policies within the boundaries of the City; and

WHEREAS, pursuant to Water Code Section 10644, the City timely submitted the 2005 Plan to the California Department of Water Resources ("DWR"); and

WHEREAS, DWR requested clarifications to be made and additional information to be added to the City's 2005 Plan which actions have been taken by the City, and which constitute an amendment to the 2005 Plan; and

WHEREAS, the Act requires amendments to, or changes in, a plan to be adopted and filed in the same manner as the underlying plan.

NOW THEREFORE, BE IT HEREBY RESOLVED that the City Council of the City of Garden Grove reaffirms the essential nature of a long-term, reliable water supply within its boundaries as described in the 2005 Management Plan and adopts the attached amendment to the 2005 Urban Water Management Plan.

Adopted this 23rd day of September 2008.

MAYOR

ATTEST:

CITY CLERK

STATE OF CALIFORNIA)
COUNTY OF ORANGE)
CITY OF GARDEN GROVE)

I, _____, City Clerk of the City of Garden Grove, do hereby certify that the foregoing Resolution was duly adopted by the City Council of the City of Garden Grove, California, at a meeting held on the 23rd day of September 2008, by the following vote:

AYES: COUNCIL MEMBERS: ()
NOES: COUNCIL MEMBERS: ()
ABSENT: COUNCIL MEMBERS: ()

CITY CLERK