

**Water Conservation Act of 2009  
SB X7-7  
Verification Forms**

**City of Hawthorne District**

**2015 Urban Water Management Plan  
Appendix I**



City of Hawthorne District SB X7-7 Verification Form Tables

SB X7-7 Table-1: Baseline Period Ranges			
Baseline	Parameter	Value	Units
10- to 15-year baseline period	2008 total water deliveries	4,685	Acre Feet
	2008 total volume of delivered recycled water	103	Acre Feet
	2008 recycled water as a percent of total deliveries	2.19%	Percent
	Number of years in baseline period <sup>1,2</sup>	10	Years
	Year beginning baseline period range	1997	
	Year ending baseline period range <sup>3</sup>	2006	
5-year baseline period	Number of years in baseline period	5	Years
	Year beginning baseline period range	2003	
	Year ending baseline period range <sup>4</sup>	2007	
<p><sup>1</sup> If the 2008 recycled water percent is less than 10 percent, then the first baseline period is a continuous 10-year period. If the amount of recycled water delivered in 2008 is 10 percent or greater, the first baseline period is a continuous 10- to 15-year period. <sup>2</sup> The Water Code requires that the baseline period is between 10 and 15 years. However, DWR recognizes that some water suppliers may not have the minimum 10 years of baseline data.</p>			
<p><sup>3</sup> The ending year must be between December 31, 2004 and December 31, 2010.</p>			
<p><sup>4</sup> The ending year must be between December 31, 2007 and December 31, 2010.</p>			

<b>SB X7-7 Table 2: Method for Population Estimates</b>	
<b>Method Used to Determine Population</b> (may check more than one)	
<input type="checkbox"/>	<b>1. Department of Finance (DOF)</b> DOF Table E-8 (1990 - 2000) and (2000-2010) and DOF Table E-5 (2011 - 2015) when available
<input type="checkbox"/>	<b>2. Persons-per-Connection Method</b>
<input type="checkbox"/>	<b>3. DWR Population Tool</b>
<input checked="" type="checkbox"/>	<b>4. Other</b> DWR recommends pre-review
<p>NOTES: Cal Water uses a population estimation methodology based on overlaying Census Block data from the 2000 and 2010 Censuses with the District's service area. LandView 5 and MARPLOT software are used with these data to estimate population per dwelling unit for 2000 and 2010. The per dwelling unit population estimates are then combined with Cal Water data on number of dwelling units served to estimate service area population for non-Census years. Cal Water also estimated service area population using DWR's Population Tool. The estimates prepared using Cal Water's methodology and DWR's Population Tool differed by less than one percent. Cal Water is electing to use the population estimates produced by its methodology in order to maintain consistency with population projections it has prepared in other planning documents and reports.</p>	

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<b>SB X7-7 Table 4: Annual Gross Water Use *</b>								
<b>Baseline Year</b> <i>Fm SB X7-7 Table 3</i>	<b>Volume Into Distribution System</b> <i>This column will remain blank until SB X7-7 Table 4-A is completed.</i>	<b>Deductions</b>					<b>Annual Gross Water Use</b>	
		<b>Exported Water</b>	<b>Change in Dist. System Storage (+/-)</b>	<b>Indirect Recycled Water</b> <i>This column will remain blank until SB X7-7 Table 4-B is completed.</i>	<b>Water Delivered for Agricultural Use</b>	<b>Process Water</b> <i>This column will remain blank until SB X7-7 Table 4-D is completed.</i>		
<b>10 to 15 Year Baseline - Gross Water Use</b>								
Year 1	1997	4,976			79		-	4,898
Year 2	1998	4,799			27		-	4,772
Year 3	1999	4,842			220		-	4,623
Year 4	2000	4,980			215		-	4,765
Year 5	2001	4,897			160		-	4,737
Year 6	2002	4,995			256		-	4,739
Year 7	2003	4,817			-		-	4,817
Year 8	2004	5,000			64		-	4,936
Year 9	2005	4,915			111		-	4,804
Year 10	2006	4,665			-		-	4,665
Year 11	0	-			-		-	-
Year 12	0	-			-		-	-
Year 13	0	-			-		-	-
Year 14	0	-			-		-	-
Year 15	0	-			-		-	-
<b>10 - 15 year baseline average gross water use</b>								<b>4,776</b>
<b>5 Year Baseline - Gross Water Use</b>								
Year 1	2003	4,817			-		-	4,817
Year 2	2004	5,000			64		-	4,936
Year 3	2005	4,915			111		-	4,804
Year 4	2006	4,665			0		-	4,665
Year 5	2007	4,743			130		-	4,613
<b>5 year baseline average gross water use</b>								<b>4,767</b>
<b>2015 Compliance Year - Gross Water Use</b>								
<b>2015</b>		4,064	-		1,354		-	<b>2,710</b>
* NOTE that the units of measure must remain consistent throughout the UWMP, as reported in Table 2-3								

<b>SB X7-7 Table 4-A: Volume Entering the Distribution System(s)</b>				
Complete one table for each source.				
<b>Name of Source</b>		Wells		
<b>This water source is:</b>				
<input checked="" type="checkbox"/>	The supplier's own water source			
<input type="checkbox"/>	A purchased or imported source			
<b>Baseline Year</b> <i>Fm SB X7-7 Table 3</i>	Volume Entering Distribution System	Meter Error Adjustment* <i>Optional (+/-)</i>	Corrected Volume Entering Distribution System	
<b>10 to 15 Year Baseline - Water into Distribution System</b>				
Year 1	1997	262		262
Year 2	1998	67		67
Year 3	1999	660		660
Year 4	2000	772		772
Year 5	2001	568		568
Year 6	2002	843		843
Year 7	2003	-		-
Year 8	2004	298		298
Year 9	2005	491		491
Year 10	2006	0		0
Year 11	0			-
Year 12	0			-
Year 13	0			-
Year 14	0			-
Year 15	0			-
<b>5 Year Baseline - Water into Distribution System</b>				
Year 1	2003	-		-
Year 2	2004	298		298
Year 3	2005	491		491
Year 4	2006	0		0
Year 5	2007	223		223
<b>2015 Compliance Year - Water into Distribution System</b>				
	<b>2015</b>	1,814		1,814
<i>* Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document</i>				
NOTES:				

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<b>SB X7-7 Table 4-A: Volume Entering the Distribution</b>				
<b>Name of Source</b>		West Basin MWD		
<b>This water source is:</b>				
<input type="checkbox"/>		The supplier's own water source		
<input checked="" type="checkbox"/>		A purchased or imported source		
<b>Baseline Year</b> <i>Fm SB X7-7 Table 3</i>		Volume Entering Distribution System	Meter Error Adjustment* <i>Optional (+/-)</i>	Corrected Volume Entering Distribution System
<b>10 to 15 Year Baseline - Water into Distribution System</b>				
Year 1	1,997	4714.13266		4,714
Year 2	1,998	4732.69633		4,733
Year 3	1,999	4181.79808		4,182
Year 4	2,000	4208.13523		4,208
Year 5	2,001	4329.06763		4,329
Year 6	2,002	4152.38283		4,152
Year 7	2,003	4816.85431		4,817
Year 8	2,004	4702.55376		4,703
Year 9	2,005	4424.01887		4,424
Year 10	2,006	4664.19273		4,664
Year 11	-			0
Year 12	-			0
Year 13	-			0
Year 14	-			0
Year 15	-			0
<b>5 Year Baseline - Water into Distribution System</b>				
Year 1	2,003	4816.85431		4,817
Year 2	2,004	4702.55376		4,703
Year 3	2,005	4424.01887		4,424
Year 4	2,006	4664.19273		4,664
Year 5	2,007	4519.62992		4,520
<b>2015 Compliance Year - Water into Distribution System</b>				
	<b>2015</b>	2,250		2,250
<i>* Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document</i>				

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SB X7-7 Table 4-B: Indirect Recycled Water Use Deduction <i>(For use only by agencies that are deducting indirect recycled water)</i>										
Baseline Year <i>Fm SB X7-7 Table 3</i>	Surface Reservoir Augmentation					Groundwater Recharge			Total Deductible Volume of Indirect Recycled Water Entering the Distribution System	
	Volume Discharged from Reservoir for Distribution System Delivery	Percent Recycled Water	Recycled Water Delivered to Treatment Plant	Transmission/ Treatment Loss	Recycled Volume Entering Distribution System from Surface Reservoir Augmentation	Recycled Water Pumped by Utility*	Transmission/ Treatment Losses	Recycled Volume Entering Distribution System from Groundwater Recharge		
10-15 Year Baseline - Indirect Recycled Water Use										
Year 1	1997		-		-	79		79	79	
Year 2	1998		-		-	27		27	27	
Year 3	1999		-		-	220		220	220	
Year 4	2000		-		-	215		215	215	
Year 5	2001		-		-	160		160	160	
Year 6	2002		-		-	256		256	256	
Year 7	2003		-		-	0		-	-	
Year 8	2004		-		-	64		64	64	
Year 9	2005		-		-	111		111	111	
Year 10	2006		-		-			-	-	
Year 11	0		-		-			-	-	
Year 12	0		-		-			-	-	
Year 13	0		-		-			-	-	
Year 14	0		-		-			-	-	
Year 15	0		-		-			-	-	
5 Year Baseline - Indirect Recycled Water Use										
Year 1	2003		-		-	-		-	-	
Year 2	2004		-		-	64		64	64	
Year 3	2005		-		-	111		111	111	
Year 4	2006		-		-	0		0	0	
Year 5	2007		-		-	130		130	130	
2015 Compliance - Indirect Recycled Water Use										
2015			-		-	1,354		1,354	1,354	
*Suppliers will provide supplemental sheets to document the calculation for their input into "Recycled Water Pumped by Utility". The volume reported in this cell must be less than total groundwater pumped - See Methodology 1, Step 8, section 2.c.										
NOTES: All reported volumes are net of recovery and transmission/treatment losses.										

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<b>SB X7-7 Table 5: Gallons Per Capita Per Day (GPCD)</b>				
<b>Baseline Year</b> <i>Fm SB X7-7 Table 3</i>		<b>Service Area Population</b> <i>Fm SB X7-7 Table 3</i>	<b>Annual Gross Water Use</b> <i>Fm SB X7-7 Table 4</i>	<b>Daily Per Capita Water Use (GPCD)</b>
<b>10 to 15 Year Baseline GPCD</b>				
Year 1	1997	42,980	4,898	102
Year 2	1998	42,964	4,772	99
Year 3	1999	43,012	4,623	96
Year 4	2000	43,088	4,765	99
Year 5	2001	42,735	4,737	99
Year 6	2002	42,717	4,739	99
Year 7	2003	42,710	4,817	101
Year 8	2004	42,807	4,936	103
Year 9	2005	42,866	4,804	100
Year 10	2006	42,884	4,665	97
<i>Year 11</i>	0	-	-	
<i>Year 12</i>	0	-	-	
<i>Year 13</i>	0	-	-	
<i>Year 14</i>	0	-	-	
<i>Year 15</i>	0	-	-	
<b>10-15 Year Average Baseline GPCD</b>				<b>99</b>
<b>5 Year Baseline GPCD</b>				
<b>Baseline Year</b> <i>Fm SB X7-7 Table 3</i>		<b>Service Area Population</b> <i>Fm SB X7-7 Table 3</i>	<b>Gross Water Use</b> <i>Fm SB X7-7 Table 4</i>	<b>Daily Per Capita Water Use</b>
Year 1	2003	42,710	4,817	101
Year 2	2004	42,807	4,936	103
Year 3	2005	42,866	4,804	100
Year 4	2006	42,884	4,665	97
Year 5	2007	42,919	4,613	96
<b>5 Year Average Baseline GPCD</b>				<b>99</b>
<b>2015 Compliance Year GPCD</b>				
<b>2015</b>		44,504	2,710	<b>54</b>



**SB X7-7 Table 6:** Gallons per Capita per Day  
*Summary From Table SB X7-7 Table 5*

10-15 Year Baseline GPCD	99
5 Year Baseline GPCD	99
2015 Compliance Year GPCD	54

SB X7-7 Table 7: 2020 Target Method		
<i>Select Only One</i>		
Target Method	Supporting Documentation	
<input type="checkbox"/>	Method 1	SB X7-7 Table 7A
<input type="checkbox"/>	Method 2	SB X7-7 Tables 7B, 7C, and 7D <i>Contact DWR for these tables</i>
<input checked="" type="checkbox"/>	Method 3	SB X7-7 Table 7-E
<input type="checkbox"/>	Method 4	Method 4 Calculator

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<b>SB X7-7 Table 7-E: Target Method 3</b>				
Agency May Select More Than One as Applicable	Percentage of Service Area in This Hydrological Region	Hydrologic Region	"2020 Plan" Regional Targets	Method 3 Regional Targets (95%)
<input type="checkbox"/>		North Coast	137	130
<input type="checkbox"/>		North Lahontan	173	164
<input type="checkbox"/>		Sacramento River	176	167
<input type="checkbox"/>		San Francisco Bay	131	124
<input type="checkbox"/>		San Joaquin River	174	165
<input type="checkbox"/>		Central Coast	123	117
<input type="checkbox"/>		Tulare Lake	188	179
<input type="checkbox"/>		South Lahontan	170	162
<input checked="" type="checkbox"/>	100%	South Coast	149	142
<input type="checkbox"/>		Colorado River	211	200
<b>Target</b> <i>(If more than one region is selected, this value is calculated.)</i>				<b>142</b>

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<b>SB X7-7 Table 7-F: Confirm Minimum Reduction for 2020 Target</b>			
5 Year Baseline GPCD From SB X7-7 Table 5	Maximum 2020 Target <sup>1</sup>	Calculated 2020 Target <sup>2</sup>	<b>Confirmed 2020 Target</b>
99	142	142	<b>142</b>
<sup>1</sup> Maximum 2020 Target is 95% of the 5 Year Baseline GPCD <sup>2</sup> 2020 Target is calculated based on the selected Target Method, see SB X7-7 Table 7 and corresponding tables for agency's calculated target.			
NOTES: Hawthorne District's base daily per capita water use is below 100 gallons. Therefore the maximum target provision of SB X7-7 (CWC 10608.22) does not apply.			

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<b>SB X7-7 Table 8: 2015 Interim Target GPCD</b>		
Confirmed 2020 Target <i>Fm SB X7-7 Table 7-F</i>	10-15 year Baseline GPCD <i>Fm SB X7-7 Table 5</i>	<b>2015 Interim Target GPCD</b>
142	99	<b>121</b>
NOTES: Interim target < confirmed 2020 target because 10 and 5-year baseline GPCD both below 100 gallons.		

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SB X7-7 Table 9: 2015 Compliance								
Actual 2015 GPCD	2015 Interim Target GPCD	Optional Adjustments (in GPCD)					2015 GPCD (Adjusted if applicable)	Did Supplier Achieve Targeted Reduction for 2015?
		Enter "0" if Adjustment Not Used			TOTAL Adjustments	Adjusted 2015 GPCD		
		Extraordinary Events	Weather Normalization	Economic Adjustment				
54	121	-	-	-	-	54	54	YES