

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

Bear Gulch District

**2015 Urban Water Management Plan
Appendix I**



Bear Gulch 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	15,510	Acre Feet
	2008 total volume of delivered recycled water	-	Acre Feet
	2008 recycled water as a percent of total deliveries	0.00%	Percent
	Number of years in baseline period ^{1,2}	10	Years
	Year beginning baseline period range	2000	
	Year ending baseline period range ³	2009	
5-year baseline period	Number of years in baseline period	5	Years
	Year beginning baseline period range	2004	
	Year ending baseline period range ⁴	2008	
<p>¹ 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. ² 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>³ The ending year must be between December 31, 2004 and December 31, 2010.</p>			
<p>⁴ The ending year must be between December 31, 2007 and December 31, 2010.</p>			

SB X7-7 Table 2: Method for Population Estimates	
Method Used to Determine Population (may check more than one)	
<input type="checkbox"/>	1. Department of Finance (DOF) DOF Table E-8 (1990 - 2000) and (2000-2010) and DOF Table E-5 (2011 - 2015) when available
<input type="checkbox"/>	2. Persons-per-Connection Method
<input type="checkbox"/>	3. DWR Population Tool
<input checked="" type="checkbox"/>	4. Other 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>	

Bear Gulch District SB X7-7 Verification Form Tables

SB X7-7 Table 3: Service Area Population		
Year	Population	
10 to 15 Year Baseline Population		
Year 1	2000	53,885
Year 2	2001	54,162
Year 3	2002	54,392
Year 4	2003	54,421
Year 5	2004	54,574
Year 6	2005	55,252
Year 7	2006	55,651
Year 8	2007	55,741
Year 9	2008	55,791
Year 10	2009	56,484
Year 11		
Year 12		
Year 13		
Year 14		
Year 15		
5 Year Baseline Population		
Year 1	2004	54,574
Year 2	2005	55,252
Year 3	2006	55,651
Year 4	2007	55,741
Year 5	2008	55,791
2015 Compliance Year Population		
	2015	59,883

Bear Gulch District SB X7-7 Verification Form Tables

SB X7-7 Table 4: Annual Gross Water Use *								
Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Into Distribution System <i>This column will remain blank until SB X7-7 Table 4-A is completed.</i>	Deductions					Annual Gross Water Use	
		Exported Water	Change in Dist. System Storage (+/-)	Indirect Recycled Water <i>This column will remain blank until SB X7-7 Table 4-B is completed.</i>	Water Delivered for Agricultural Use	Process Water <i>This column will remain blank until SB X7-7 Table 4-D is completed.</i>		
10 to 15 Year Baseline - Gross Water Use								
Year 1	2000	14,149			-		-	14,149
Year 2	2001	14,518			-		-	14,518
Year 3	2002	13,639			-		-	13,639
Year 4	2003	13,861			-		-	13,861
Year 5	2004	15,008			-		-	15,008
Year 6	2005	13,527			-		-	13,527
Year 7	2006	13,858			-		-	13,858
Year 8	2007	15,554			-		-	15,554
Year 9	2008	15,510			-		-	15,510
Year 10	2009	14,245			-		-	14,245
Year 11	0	-			-		-	-
Year 12	0	-			-		-	-
Year 13	0	-			-		-	-
Year 14	0	-			-		-	-
Year 15	0	-			-		-	-
10 - 15 year baseline average gross water use								14,387
5 Year Baseline - Gross Water Use								
Year 1	2004	15,008			-		-	15,008
Year 2	2005	13,527			-		-	13,527
Year 3	2006	13,858			-		-	13,858
Year 4	2007	15,554			-		-	15,554
Year 5	2008	15,510			-		-	15,510
5 year baseline average gross water use								14,692
2015 Compliance Year - Gross Water Use								
2015		10,401	-		-		-	10,401
* NOTE that the units of measure must remain consistent throughout the UWMP, as reported in Table 2-3								

Bear Gulch District SB X7-7 Verification Form Tables

SB X7-7 Table 4-A: Volume Entering the Distribution System(s)				
Complete one table for each source.				
Name of Source		Bear Gulch Creek		
This water source is:				
<input checked="" type="checkbox"/>	The supplier's own water source			
<input type="checkbox"/>	A purchased or imported source			
Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Entering Distribution System	Meter Error Adjustment* <i>Optional (+/-)</i>	Corrected Volume Entering Distribution System	
10 to 15 Year Baseline - Water into Distribution System				
Year 1	2000	1,557		1,557
Year 2	2001	920		920
Year 3	2002	1,191		1,191
Year 4	2003	1,278		1,278
Year 5	2004	692		692
Year 6	2005	1,774		1,774
Year 7	2006	1,923		1,923
Year 8	2007	754		754
Year 9	2008	528		528
Year 10	2009	716		716
Year 11	0			-
Year 12	0			-
Year 13	0			-
Year 14	0			-
Year 15	0			-
5 Year Baseline - Water into Distribution System				
Year 1	2004	692		692
Year 2	2005	1,774		1,774
Year 3	2006	1,923		1,923
Year 4	2007	754		754
Year 5	2008	528		528
2015 Compliance Year - Water into Distribution System				
2015		437		437
<i>* Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document</i>				
NOTES:				

Bear Gulch District SB X7-7 Verification Form Tables

SB X7-7 Table 4-A: Volume Entering the Distribution				
Name of Source		SFPUC		
This water source is:				
<input type="checkbox"/>	The supplier's own water source			
<input checked="" type="checkbox"/>	A purchased or imported source			
Baseline Year <i>Fm SB X7-7 Table 3</i>	Volume Entering Distribution System	Meter Error Adjustment* <i>Optional (+/-)</i>	Corrected Volume Entering Distribution System	
10 to 15 Year Baseline - Water into Distribution System				
Year 1	2,000	12592.51386		12,593
Year 2	2,001	13598.34947		13,598
Year 3	2,002	12447.82216		12,448
Year 4	2,003	12582.8346		12,583
Year 5	2,004	14315.76224		14,316
Year 6	2,005	11753.55183		11,754
Year 7	2,006	11935.733		11,936
Year 8	2,007	14800.32966		14,800
Year 9	2,008	14981.94923		14,982
Year 10	2,009	13528.53238		13,529
Year 11	-			0
Year 12	-			0
Year 13	-			0
Year 14	-			0
Year 15	-			0
5 Year Baseline - Water into Distribution System				
Year 1	2,004	14315.76224		14,316
Year 2	2,005	11753.55183		11,754
Year 3	2,006	11935.733		11,936
Year 4	2,007	14800.32966		14,800
Year 5	2,008	14981.94923		14,982
2015 Compliance Year - Water into Distribution System				
2015	9,964			9,964
<i>* Meter Error Adjustment - See guidance in Methodology 1, Step 3 of Methodologies Document</i>				
NOTES:				

Bear Gulch District SB X7-7 Verification Form Tables

SB X7-7 Table 5: Gallons Per Capita Per Day (GPCD)				
Baseline Year <i>Fm SB X7-7 Table 3</i>		Service Area Population <i>Fm SB X7-7 Table 3</i>	Annual Gross Water Use <i>Fm SB X7-7 Table 4</i>	Daily Per Capita Water Use (GPCD)
10 to 15 Year Baseline GPCD				
Year 1	2000	53,885	14,149	234
Year 2	2001	54,162	14,518	239
Year 3	2002	54,392	13,639	224
Year 4	2003	54,421	13,861	227
Year 5	2004	54,574	15,008	246
Year 6	2005	55,252	13,527	219
Year 7	2006	55,651	13,858	222
Year 8	2007	55,741	15,554	249
Year 9	2008	55,791	15,510	248
Year 10	2009	56,484	14,245	225
Year 11	0	-	-	-
Year 12	0	-	-	-
Year 13	0	-	-	-
Year 14	0	-	-	-
Year 15	0	-	-	-
10-15 Year Average Baseline GPCD				233
5 Year Baseline GPCD				
Baseline Year <i>Fm SB X7-7 Table 3</i>		Service Area Population <i>Fm SB X7-7 Table 3</i>	Gross Water Use <i>Fm SB X7-7 Table 4</i>	Daily Per Capita Water Use
Year 1	2004	54,574	15,008	246
Year 2	2005	55,252	13,527	219
Year 3	2006	55,651	13,858	222
Year 4	2007	55,741	15,554	249
Year 5	2008	55,791	15,510	248
5 Year Average Baseline GPCD				237
2015 Compliance Year GPCD				
2015		59,883	10,401	155

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SB X7-7 Table 6: Gallons per Capita per Day <i>Summary From Table SB X7-7 Table 5</i>	
10-15 Year Baseline GPCD	233
5 Year Baseline GPCD	237
2015 Compliance Year GPCD	155

Bear Gulch District SB X7-7 Verification Form Tables

SB X7-7 Table 7: 2020 Target Method		
<i>Select Only One</i>		
Target Method		Supporting Documentation
<input checked="" 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 type="checkbox"/>	Method 3	SB X7-7 Table 7-E
<input type="checkbox"/>	Method 4	Method 4 Calculator

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SB X7-7 Table 7-A: Target Method 1 20% Reduction	
10-15 Year Baseline GPCD	2020 Target GPCD
233	187

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SB X7-7 Table 7-F: Confirm Minimum Reduction for 2020 Target			
5 Year Baseline GPCD <i>From SB X7-7 Table 5</i>	Maximum 2020 Target ¹	Calculated 2020 Target ²	Confirmed 2020 Target
237	225	187	187
¹ Maximum 2020 Target is 95% of the 5 Year Baseline GPCD ² 2020 Target is calculated based on the selected Target Method, see SB X7-7 Table 7 and corresponding tables for agency's calculated target.			

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SB X7-7 Table 8: 2015 Interim Target GPCD		
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>	2015 Interim Target GPCD
187	233	210

Bear Gulch District SB X7-7 Verification Form Tables

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				
155	210	-	-	-	-	155	155	YES