Errata Sheet for Minor Corrections to
Los Angeles Department of Water and Power 2020 Urban Water Management Plan (UWMP)

This errata sheet logs minor content errors that were identified after final adoption of the Los Angeles Department of Water and Power 2020 UWMP. DWR has determined that these corrections are minor and do not require the UWMP to be amended.

[X] These data errors have been corrected in the Department of Water Resources (DWR) UWMP database at https://wuedata.water.ca.gov/secure/

[X] This errata sheet has been filed with the UWMP in all locations where it is made publicly available, including the California State Library. Errata may be submitted to State Library via email to cslgps@library.ca.gov

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#	Description of Correction	Location	Rationale	Date Error Corrected
1	Total recycled water produced for FY 2019/20 corrected from 36,392 AF to 36,401 AF.	Page ES-5	Correction of value	11/18/21
2	Appended ", which was utilized for the 2020 UWMP water demand forecast detailed in Chapter 2, *Water Demand*." to the last paragraph.	Page 1-6	Clarification to provide additional context per CWC 10631(a)	11/18/21
3	Added website link to the 2020 SCAG RTP as a reference for source of demographics projections.	Page 1-5	Clarification to provide additional context per CWC 10631(a)	11/18/21
4	Added new paragraph stating: "Projected land uses from the SCAG 2020 RTP were utilized to prepare the demographics projections utilized for demand forecasting described in Chapter 2, *Water Demand*."	Page 1-7	Clarification to provide additional context per CWC 10631(a)	11/18/21

5	Include additional description in Step 3 to state that "… the associated projected demographic drivers derived from the SCAG 2020 RTP in order to…"	Page 2-5	Clarification to provide additional context per CWC 10631(a)	11/18/21
6	Total recycled water used in FY 2019/20 corrected from 36,392 AF to 36,401 AF.	Page 7-25	Correction of value	11/18/21
7	Table 4-4 was corrected to show five years of Water Loss Audit reporting. Note that values shown in this table correspond to the sum of the real and apparent losses shown in Exhibit 2J, which excludes unbilled metered/unmetered volumes.	Page B16	Clarification and correction of value	11/18/21
8	Table 5-2 showed an incorrect GPCD target of 148, value corrected to 142.	Page B17	Correction of value	11/18/21
9	Table 6-4 Entry error for 2020 Landscape irrigation and golf course irrigation values. Values corrected to 2,931 AF and 2,642 AF respectively.	Page B19	Correction of value	11/18/21
10	Table 6-5 Entry error for 2020 Landscape irrigation and golf course irrigation values. Values corrected to 2,931 AF and 2,642 AF respectively.	Page B20	Correction of value	11/18/21
11	Added note to Table 6-8 to clarify that "Total supply shown includes 1,155 AF of additions to storage, which should be deducted when comparing total supplies to total water use."	Page B22	Clarification and correction of value	11/18/21
12	Table 8-3 revised to clarify no actions apply to shortage levels 1 and 2.	Page B30	Clarification of actions taken in shortage levels 1 and 2	11/18/21
13	SBX7-7 Table 4 water use volume did not include 1,155 AF in storage change. Total volume should be deducted from gross water use for a gross water use of 477,950.	Page B33	Clarification and correction of value	11/18/21

14	SBX7-7 Table 8: 2020 Compliance was mislabeled, corrected to Table 9. 2020 Target showed an incorrect GPCD target of 148, value corrected to 142.	Page B37	Correction of value	11/18/21

Corrections and additions are shown below in red:

Correction 1 (Page ES-5):
As early as 1960, the City recognized the potential for water recycling and invested in infrastructure that produced water of tertiary quality, a high treatment standard for wastewater. In 1979, LADWP began delivering tertiary quality recycled water to the Department of Recreation and Parks for irrigation of various areas in Griffith Park. Today LADWP serves approximately 179 sites in the City with recycled water for irrigation, industrial, and environmental beneficial uses. There are approximately 200 individual customer service accounts, with several projects containing multiple customer accounts at a single location. Recycled water produced for FY 2019/20 was ~~36,392~~ 36,401 AFY, inclusive of municipal industrial, and environmental reuse.

Correction 2 (Page 1-6):
Demographic projections are primary drivers of water demand forecasting. It is important to use the latest and best information available, as the accuracy of these projections may lead to an over-estimate or under-estimate of future water demands. During the UWMP planning process, LADWP used the latest available demographic projections for its water demand forecast. Currently, the latest available projections are in the 2020 RTP, which was utilized for the 2020 UWMP water demand forecast detailed in Chapter 2, *Water Demand*.

Correction 3 (Page 1-5):
Demographic projections for the LADWP service area are based on the Southern California Association of Governments' (SCAG) demographic growth forecast for their 2020 Regional Transportation Plan (RTP), which can be found at https://scag.ca.gov/read-plan-adopted-final-plan.

Correction 4 (Page 1-7):
The City is comprised of approximately 302,832 acres. Residential development constitutes approximately 47 percent of the total land use within the City. Within the residential land use category, single-family residential is the largest at approximately 110,000 acres or 36 percent of the total land use within the City. Multi-family residential is at approximately 33,000 acres or 11 percent of the total land use. Open space/parks are the second largest land use within the City at approximately 17 percent. Commercial, public facilities and manufacturing land uses combined account for approximately 19 percent of the total. Public facilities include land uses such as libraries, public schools, and other government facilities. Exhibit 1E provides a breakdown of the land uses within the City. The "Other" category includes City port and airport, transportation, freeways, parking, rights of way, hillsides, and other miscellaneous uses that are not zoned.

Projected land uses from the SCAG 2020 RTP were utilized to prepare the demographics projections utilized for demand forecasting described in Chapter 2, *Water Demand*.

Correction 5 (Page 2-5):
Step 3: Multiply modified per unit water use for each category in Step 2 by the associated projected demographic drivers derived from the SCAG 2020 RTP in order to obtain projected water demands by billed category. Note that these per unit water use factors do not include future active or passive conservation from new or potential codes and ordinances.

Correction 6 (Page 7-25):
LADWP has made progress in increasing recycled water use. Between 2015 and 2020, over 35 additional sites have come online. Municipal and industrial recycled water use (including flows to Dominguez Gap Barrier) between FY 2015/16 and FY 2019/20 slightly increased from 10,421 AFY to 10,609 AFY. The 2015 Urban Water Management Plan (UWMP) projected municipal and industrial recycled water use in FY 2019/20 to be approximately 19,800 AF; however, actual use was lower than projected, as shown in Exhibit 7N. The lower than projected use of municipal and industrial use is a result of delays with signing up projected recycled water customers. Environmental use of recycled water fluctuates slightly year to year based on lake levels but the historical 10-year average is 26,600 AFY. For FY 2019/20 actual environmental use was 26,751 AF, and the overall total recycled water used in FY 2019/20 was ~~36,392~~ 36,401 AFY.

Correction 7 (Page B16):

Submittal Table 4-4 Retail: Last Five Years of Water Loss Audit Reporting

Reporting Period Start Date (mm/yyyy)	Volume of Water Loss [1,2]
07/2015	37,258
07/2016	39,303
07/2017	41,647
07/2018	34,971
07/2019	28,809

[1] Taken from the field "Water Losses" (a combination of apparent losses and real losses) from the AWWA worksheet.
*[2] **Units of measure (AF, CCF, MG)** must remain consistent throughout the UWMP as reported in Table 2-3.*

Correction 8 (Page B17):

Submittal Table 5-2: 2020 Compliance From SB X7-7 2020 Compliance Form *Retail Supplier or Regional Alliance Only*				
2020 GPCD				
Actual 2020 GPCD*	2020 TOTAL Adjustments*	Adjusted 2020 GPCD* *(Adjusted if applicable)*	2020 Confirmed Target GPCD*	Did Supplier Achieve Targeted Reduction for 2020? Y/N
106	*0*	*106*	*142*	*YES*
**All cells in this table should be populated manually from the supplier's SBX7-7 2020 Compliance Form and reported in Gallons per Capita per Day (GPCD)*				
NOTES:				

Correction 9 (Page B19):

Submittal Table 6-4 Retail: Recycled Water Direct Beneficial Uses Within Service Area

☐ Recycled water is not used and is not planned for use within the service area of the supplier. The supplier will not complete the table below.

Name of Supplier Producing (Treating) the Recycled Water:	Los Angeles Department of Public Works - Bureau of Sanitation
Name of Supplier Operating the Recycled Water Distribution System:	Los Angeles Department of Water & Power
Supplemental Water Added in 2020 (volume) *Include units*	None
Source of 2020 Supplemental Water	None

Beneficial Use Type *Insert additional rows if needed.*	**Potential** Beneficial Uses of Recycled Water (Describe)	Amount of **Potential** Uses of Recycled Water (Quantity) *Include volume units* [1]	General Description of 2020 Uses	Level of Treatment *Drop down list*	2020 [1]	2025 [1]	2030 [1]	2035 [1]	2040 [1]	2045 [1] (opt)
Agricultural irrigation										
Landscape irrigation (exc golf courses)			Parks, Schools, Schools, Apartments,Commercial, Municipal	Tertiary	2,931	3,540	4,057	4,182	4,307	4,117
Golf course irrigation			Golf Course	Tertiary	2,642	3,201	3,201	3,201	3,201	3,201
Commercial use										
Industrial use			Cooling Towers, Fill Stations, Industrial toilets	Tertiary	956	4,108	13,988	14,138	14,138	14,558
Geothermal and other energy production										
Seawater intrusion barrier			Dominguez Gap	Tertiary	3,121	6,500	8,000	8,000	8,000	8,000
Recreational impoundment										
Wetlands or wildlife habitat			Lakes	Tertiary	26,751	26,620	26,620	26,760	26,760	26,760
Groundwater recharge (IPR)										
Reservoir water augmentation (IPR)										
Direct potable reuse										
Other (Description Required)										
				Total:	36,401	43,969	55,866	56,281	56,406	56,636
				2020 Internal Reuse						

[1] ***Units of measure (AF, CCF, MG)*** *must remain consistent throughout the UWMP as reported in Table 2-3.*

NOTES: Demands from LA Groundwater Replenishemnt project excluded to avoid double counting of supply and demand. Use from governmental customers (as categorized in Table 4-2) are distributed among different use types.

Correction 10 (Page B20):

Submittal Table 6-5 Retail: 2015 UWMP Recycled Water Use Projection Compared to 2020 Actual		
☐	Recycled water was not used in 2015 nor projected for use in 2020. The supplier will not complete the table below. If recycled water was not used in 2020, and was not predicted to be in 2015, then check the box and do not complete the table.	
Beneficial Use Type	**2015 Projection for 2020 [1]**	**2020 Actual Use[1]**
Insert additional rows as needed.		
Agricultural irrigation		
Landscape irrigation (exc golf courses)	4,500	2,931
Golf course irrigation	3,800	2,642
Commercial use		
Industrial use	3,400	956
Geothermal and other energy production	600	0
Seawater intrusion barrier	7,500	3,121
Recreational impoundment		
Wetlands or wildlife habitat	26,740	26,751
Groundwater recharge (IPR)		
Reservoir water augmentation (IPR)		
Direct potable reuse		
Other (Description Required)		
Total	46,540	36,401
[1] **Units of measure (AF, CCF, MG)** must remain consistent throughout the UWMP as reported in Table 2-3.		
NOTES: 2015 and 2020 Municipal and Industrial Use was projected as aggregate total; projections for M&I subcategories are not available.		

Correction 11 (Page B22):

Submittal Table 6-8 Retail: Water Supplies — Actual				
Water Supply		2020		
Drop down list May use each category multiple times. These are the only water supply categories that will be recognized by the WUEdata online submittal tool	Additional Detail on Water Supply	Actual Volume*	Water Quality Drop Down List	Total Right or Safe Yield* (optional)
Add additional rows as needed				
Groundwater (not desalinated)	From the San Fernando Basin, Sylmar Basin,	34,363	Drinking Water	
Purchased or Imported Water	Los Angeles Aqueduct	292,095	Other Non-Potable Water	
Purchased or Imported Water	Metropolitan Water District of Southern California	62,641	Drinking Water	
Purchased or Imported Water	Metropolitan Water District of Southern California	90,006	Other Non-Potable Water	
Recycled Water	Non-Potable Reuse	9,641	Recycled Water	
	Total	488,746		0
***Units of measure (AF, CCF, MG)** must remain consistent throughout the UWMP as reported in Table 2-3.*				
NOTES: Recycled water supply excludes recycled water for environmental uses. Total supply shown includes 1,155 AF of additions to storage, which should be deducted when comparing total supplies to total water use.				

Correction 12 (Page B30):

Submittal Table 8-3: Supply Augmentation and Other Actions			
Shortage Level	Supply Augmentation Methods and Other Actions by Water Supplier ***Drop down list*** *These are the only categories that will be accepted by the WUEdata online submittal tool*	How much is this going to reduce the shortage gap? *Include units used (volume type or percentage)*	Additional Explanation or Reference *(optional)*
Add additional rows as needed			
1 to 2	Other Actions (describe)	No supply augmentation or other actions necessary for this shortage level	No actions apply to shortage levels 1 and 2
3 to 6	Other Actions (describe)	Up to 50% depending on groundwater conditions and available storage volumes	Withdraw from available emergency storage along the LAA System and local groundwater basins
NOTES: The same supply augmentation response actions are available for shortage levels 3 to 6.			

Correction 13 (Page B33):

SB X7-7 Table 4: Annual Gross Water Use *

Baseline Year *Fm SB X7-7 Table 3*		Volume Into Distribution System *This column will remain blank until SB X7-7 Table 4-A*	Deductions					Annual Gross Water Use
			Exported Water	Change in Dist. System Storage (+/-)	Indirect Recycled Water *This column will remain blank until SB X7-7 Table 4-B is*	Water Delivered for Agricultural Use	Process Water *This column will remain blank until SB X7-7 Table 4-D is completed.*	
10 to 15 Year Baseline - Gross Water Use								
Year 1	1996	601,559			-		-	601,559
Year 2	1997	628,540			-		-	628,540
Year 3	1998	591,308			-		-	591,308
Year 4	1999	617,841			-		-	617,841
Year 5	2000	659,677			-		-	659,677
Year 6	2001	658,800			-		-	658,800
Year 7	2002	661,553			-		-	661,553
Year 8	2003	653,109			-		-	653,109
Year 9	2004	684,476			-		-	684,476
Year 10	2005	615,309			-		-	615,309
Year 11	0	-			-		-	-
Year 12	0	-			-		-	-
Year 13	0	-			-		-	-
Year 14	0	-			-		-	-
Year 15	0	-			-		-	-
10 - 15 year baseline average gross water use								637,217
5 Year Baseline - Gross Water Use								
Year 1	2004	684,476			-		-	684,476
Year 2	2005	615,309			-		-	615,309
Year 3	2006	628,386			-		-	628,386
Year 4	2007	666,096			-		-	666,096
Year 5	2008	645,781			-		-	645,781
5 year baseline average gross water use								648,010
2020 Compliance Year - Gross Water Use								
2020		479,105	-	1,155	-		-	477,950

* NOTE that the units of measure must remain consistent throughout the UWMP, as reported in Table 2-3

NOTES: 1,155 AF was used to increase system storage and should be deducted from gross water use.

Correction 14 (Page B37):

SB X7-7 Table 9: 2020 Compliance

Actual 2020 GPCD	2020 Interim Target GPCD	Optional Adjustments *(in GPCD)* Enter "0" if Adjustment Not Used			TOTAL Adjustments	Adjusted 2020 GPCD	2020 GPCD *(Adjusted if applicable)*	Did Supplier Achieve Targeted Reduction for 2020?
		Extraordinary Events	Weather Normalization	Economic Adjustment				
106	142	-	-	-	-	106	106	YES

NOTES: