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2025 UWMP

UWMP Overview – About Urban Water Management Plans

- Urban Water Management Plans (UWMPs) are required by the CA Water Code
- UWMPs must be updated every 5 years and submitted to the Department of Water Resources (DWR)
- Inform and include neighboring agencies and the public as part of UWMP preparation and adoption
- Supports long-term water supply and drought planning
- Ensure supplies meet existing and projected demands over a 25-year horizon
- Provides a framework for conservation and drought response
- Pre-requisite for certain loans and grants

UWMP Presentation Overview – The CCSD's Urban Water Management Plan

- Chapter 1 – Overview
- Chapter 2 – Plan Preparation
- **Chapter 3 – System Description & Service Area**
- **Chapter 4 – Water Use Characterization**
- Chapter 5 – Water Use Reporting
- **Chapter 6 – Water Supplies**
- **Chapter 7 – Water Supply Reliability**
- Chapter 8 – WSCP
- **Chapter 9 – Demand Management**
- **Chapter 10 – Public Information and UWMP adoption**

History of Maddaus Water Management (MWM) & CCSD collaboration

2013

MWM used DSS Model for Water Use Efficiency Plan and Retrofit Points Equivalency Table

2015/16

MWM updates DSS Model for 2015 UWMP update; assumes 1% growth rate starting in 2017

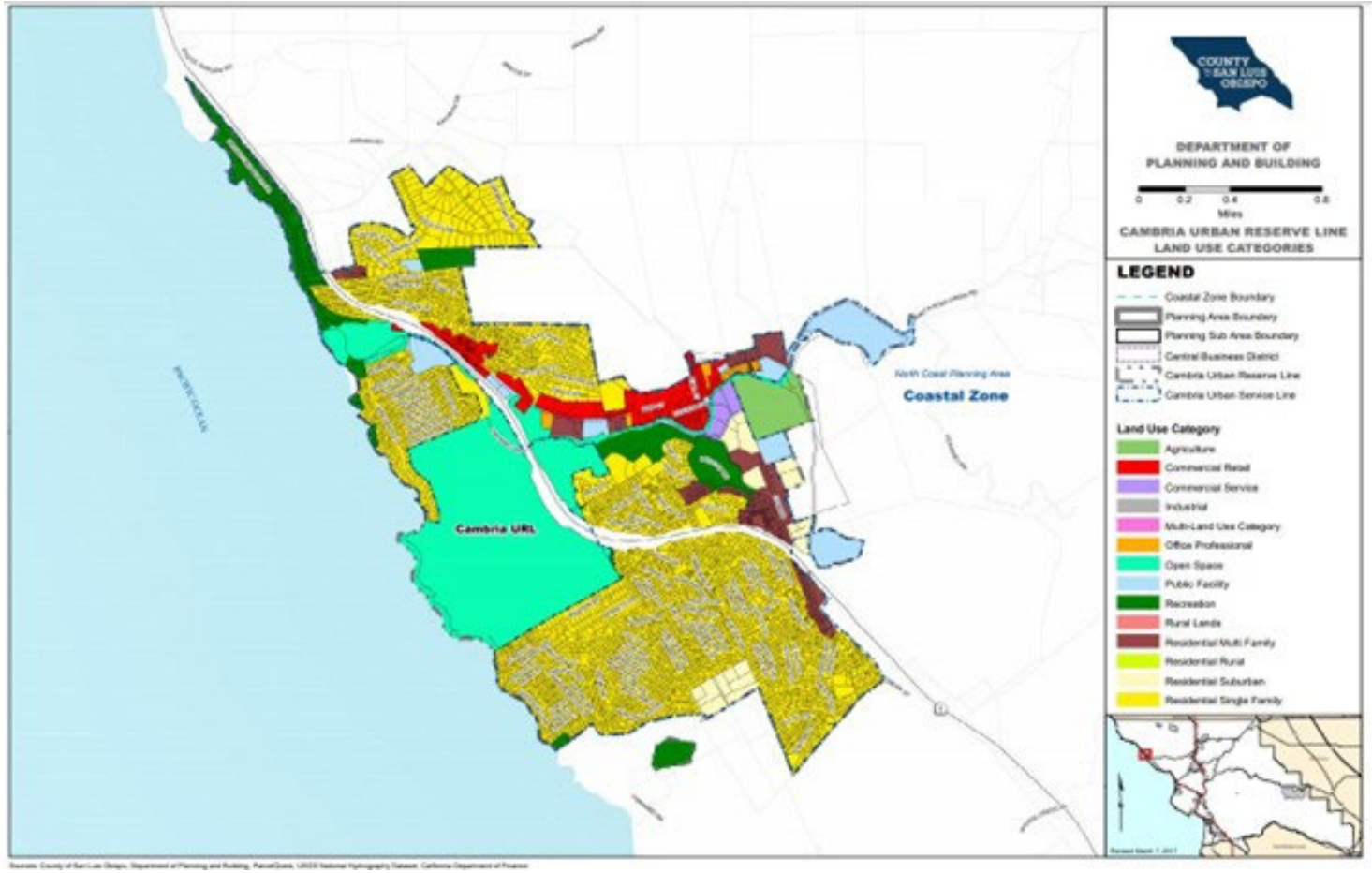
2020/21

MWM assists CCSD in updating DSS Model for 2020 UWMP demand projections

2025/26

MWM assists CCSD in writing the 2025 UWMP

Chapter 3



- CCSD water system
- Service Area
- Climate
- Population and demographics
- Land uses within the service area

FIGURE 3-5 ON PAGE 299 OF THE AGENDA PACKET (PAGE 28 OF THE UWMP)

Chapter 4

- Water demand characterizations
- Historical water demands
- Current water demands
- Projected water demands

Table 4-1. Demands for Potable and Non-Potable Water – Actual

Submittal Table 4-1 Retail: 2025 Actual Total Uses for Potable and Non-Potable Water Water Code Section 10631(d)(1)			
Use Type	Additional Description	2025 Actual Water Use	
		Treatment Level when Delivered	Volume (AF)
Single Family	Includes Vacation Rental Water Use	Potable	278
Multifamily		Potable	16
Commercial	Commercial Lodging	Potable	53
Commercial	Non-Lodging Commercial and 5 Commercial Dedicated Irrigation Meters	Potable	39
Institutional/Governmental	Internal and No-Charge accounts	Potable	2
Other (optional)	Riparian Deliveries	Potable	6
Saline water intrusion barrier	Use of existing percolation pond operation	Non-Potable	482
Distribution System Water Loss	Non-Revenue Water	Potable	126
		Subtotal Potable	520
		Subtotal Non-Potable	482
		Total	1,002

NOTES: Potable use volume based on amount billed or otherwise accounted for; system water loss calculated as the difference between potable use and the total 2025 potable water production of 520 AF as reported in Table 2-1. CCSD staff suspects potable customers were underbilled due to the AMI transition, yielding a higher water loss volume and lower customer category use. This is evident when comparing year 2025 individual use type volume to previous years' use. Riparian/Other and Institutional water use are not considered to be under-tracked. For 2025, the volume of water for the seawater intrusion barrier is the amount of wastewater collected from the service area which is based on metered effluent data reported to the State Water Board in CCSD's annual self-monitoring report. Commercial Non-Lodging accounts include five commercial dedicated irrigation meters.

Projected Demands

Table 4-2. Demands for Potable and Non-Potable Water – Projected

Submittal Table 4-2 Retail: Total Uses of Potable, and Non-Potable Water – Projected - Water Code 10631(d)(1)							
Use Type	Additional Description	Projected Water Use					
		Treatment Level when Delivered	**2030**	**2035**	**2040**	**2045**	**2050**
			(AF)	(AF)	(AF)	(AF)	(AF)
Single Family	Includes ADU and rental homes	Potable	298	313	328	345	362
Multifamily		Potable	17	17	18	19	20
Commercial	Commercial Lodging	Potable	66	70	73	77	81
Commercial	Non-Lodging Commercial and 5 COM Dedicated Irrigation Meters	Potable	48	51	53	56	59
Institutional/ Governmental	Internal and No-Charge accounts	Potable	4	4	5	5	5
Other (optional)	Riparian deliveries	Potable	5	5	6	6	6
Landscape	Landscape Irrigation (excl. golf courses)	Non-Potable	0	50	100	100	100
Saline Water Intrusion Barrier	Existing percolation pond operation use	Non-Potable	482	456	431	458	486
Distribution System Water Loss		Potable	82	82	82	82	82
		Subtotal Potable	520	542	565	589	615
		Subtotal Non-Potable	482	506	531	558	586
		Total	1,002	1,048	1,097	1,147	1,201

Chapter 6

- Water supply characterization
  - Groundwater
  - Water Reclamation Facility
  - Wastewater and Recycled Water
- Summary of Existing and Planned Water Sources
- Projected Water Supplies

Table 6-8. Water Supplies – 2025 Actual

Submittal Table 6-8 Retail: Water Supplies — 2025 Actual - Water Code Section 10631 (b)				
Water Supply	Additional Description	2025		
		Water Type	Actual Volume	Total Entitlement
			(AF)	(AF)
Groundwater (not desalinated)	San Simeon Basin	Potable	372	799
Groundwater (not desalinated)	Santa Rosa Basin	Potable	148	218
Recycled Water	Saline Water Intrusion Barrier – use of existing percolation pond operation	Non-Potable	482	482
Recycled Water	Water Reclamation Facility – indirect potable reuse	Potable	0	150
		Subtotal Potable	520	1,167
		Subtotal Non-Potable	482	482
		Total	1,002	1,649

Summary of Existing and Planned Water Sources

Table 6-7. Expected Future Water Supply Projects or Programs

6.2.10 Submittal Table 6-7 Retail: Expected Future Water Supply Projects - Water Code Section 10631 (f)						
Name of Future Projects or Programs	Joint Project with other suppliers?	Additional Description (as needed)	Water Type (after treatment if treated)	Planned Implementation Year	Planned for Use in Year Type	Expected Increase in Water Supply (AF)
Recycled Water	No		Non-Potable	2035	All Year Types	50-100
Water Reclamation Facility	No	Indirect Potable Reuse	Potable	2028	All Year Types	21-150
NOTES: Per the application submitted for the WRF's regular Coastal Development Permit (CDP), an estimated 21 AF of WRF production is estimated to occur during a normal year, which is based on a nine-hour daily runtime up to four working days per week for a minimum of eight weeks per year at a product water reinjection rate of 400 gpm. Should the IPR system operate continuously over a six-month dry season, its total production would be approximately 250 AFY; however, 150 AF from the WRF is at the upper end of realistic production levels. A start year of 2030 has been chosen as a conservative estimate for growth assumptions.						

Projected Water Supplies

Table 6-9. Water Supplies – Projected

Submittal Table 6-9 Retail: Water Supplies — Projected - Water Code Section 10631 (b)												
Water Supply	Additional Detail on Water Supply	**Water Type** (after treatment if treated)	**Projected Water Supply (Report to the Extent Practicable)**									
			2030		**2035**		**2040**		**2045**		**2050 (opt)**	
			Reasonably Available Volume	Total Entitlement	Reasonably Available Volume	Total Entitlement	Reasonably Available Volume	Total Entitlement	Reasonably Available Volume	Total Entitlement	Reasonably Available Volume	Total Entitlement
			(AF)	(AF)	(AF)	(AF)	(AF)	(AF)	(AF)	(AF)	(AF)	(AF)
Groundwater (not desalinated)	San Simeon Basin	Potable	349	799	345	799	370	799	445	799	472	799
Groundwater (not desalinated)	Santa Rosa Basin	Potable	150	218	150	218	150	218	150	218	150	218
Recycled Water	Water Reclamation Facility (indirect potable reuse)	Potable	21	150	21	150	21	150	21	150	21	150
Recycled Water	Saline Water Intrusion Barrier (existing use of percolation pond operation)	Non-Potable	482	482	482	482	456	456	431	431	458	458
Recycled Water	Landscape Irrigation (excludes golf courses)	Non-Potable	0	0	50	50	100	100	100	100	100	100
Subtotal Potable			520	1,167	516	1,167	541	1,167	616	1,167	643	1,167
Subtotal Non-Potable			482	482	532	532	556	556	531	531	558	558
Total			1,002	1,649	1,048	1,699	1,097	1,723	1,147	1,698	1,201	1,725

Chapter 7 – Water Supply Reliability

Normal Year

- Based on average supply 2020-2025
- Supplies meet projected demands

Single Dry Year

- Based on actual supply in 2021
- Supplies meet projected demands, supplemental WRF supply of 21-150 AF to protect the SS aquifer

Multiple Dry Years

- Based on actual supply in 2012-2016 and 2021
- Supplemental WRF supply of 21-150 AF needed to meet projected demands

Table 7-2. Normal Year Supply and Demand Comparison

Submittal Table 7-2 Retail: Normal Year Supply and Use Comparison - Water Code Section 10635 (a)					
	2030	2035	2040	2045	2050 (Opt)
	(AF)	(AF)	(AF)	(AF)	(AF)
Supply totals *(from Table 6-9)*	1,002	1,048	1,097	1,147	1,201
Use totals *(from Table 4-2)*	1,002	1,048	1,097	1,147	1,201
Surplus/(shortfall)	0	0	0	0	0

NOTES:

1. Groundwater supplies are pumped to meet demand, with the supplemental WRF supply ranging from 21 AF (to keep WRF as an effective operational supply) to 150 AF (a reasonable available volume from the WRF) to make up for any shortfall.
2. Recycled water supplies can meet irrigation demands up to 100 AF in all year types once fully developed in 2035.
3. The seawater intrusion barrier use and supply will be the amount of wastewater collected from the service area (based on metered effluent data reported to the State Water Board in CCSD's annual self-monitoring report). In addition to indoor metered water use, this value includes infiltration and inflow into the collection system.
4. WSCP supply augmentation and use reduction savings benefits are available as presented in Chapter 8 but are not needed in this projection scenario.

Table 7-3. Single Dry Year Supply and Demand Comparison

Submittal Table 7-3 Retail: Single Dry-Year Supply and Use Comparison - Water Code Section 10635 (a)					
	2030	2035	2040	2045	2050 (Opt)
	(AF)	(AF)	(AF)	(AF)	(AF)
Supply totals	1,002	1,048	1,097	1,147	1,201
Use totals	1,002	1,048	1,097	1,147	1,201
Surplus/(shortfall)	0	0	0	0	0

NOTES:

1. Groundwater single dry year supply based on pumping in the historical dry year 2021, with supplemental WRF supply from 21 AF up to 150 AF as needed. The available supply in 2021 was 538 AF, which exceeds the anticipated 2030 demand of 520 AF.
2. Recycled water supplies can meet irrigation demands up to 100 AF in all year types once fully developed in 2035.
3. The seawater intrusion barrier use and supply will be the amount of wastewater collected from the service area (based on metered effluent data reported to the State Water Board in CCSD's annual self-monitoring report).
4. WSCP supply augmentation and use reduction savings benefits are available as presented in Chapter 8 but are not needed in this dry year projection scenario.

Table 7-4. Multiple Dry Years Supply and Demand Comparison

Submittal Table 7-4: Multiple Dry Year Supply & Use Comparison - Water Code Section 10635(a)						
		2030	2035	2040	2045	2050 (Opt)
		(AF)	(AF)	(AF)	(AF)	(AF)
First year	Supply totals	1,002	1,048	1,097	1,147	1,201
	Use totals	1,002	1,048	1,097	1,147	1,201
	Surplus/(shortfall)	0	0	0	0	0
Second year	Supply totals	1,002	1,048	1,097	1,147	1,201
	Use totals	1,002	1,048	1,097	1,147	1,201
	Surplus/(shortfall)	0	0	0	0	0
Third year	Supply totals	1,002	1,048	1,097	1,147	1,201
	Use totals	1,002	1,048	1,097	1,147	1,201
	Surplus/(shortfall)	0	0	0	0	0
Fourth year	Supply totals	1,002	1,048	1,097	1,147	1,201
	Use totals	1,002	1,048	1,097	1,147	1,201
	Surplus/(shortfall)	0	0	0	0	0
Fifth year	Supply totals	1,002	1,048	1,097	1,147	1,201
	Use totals	1,002	1,048	1,097	1,147	1,201
	Surplus/(shortfall)	0	0	0	0	0

Chapter 9 – Demand Management Measures

- Demand Management over the previous 5 years
- Required Demand Management Measures
- Other Demand Management Measures
- Water Use Reporting

Chapter 10 – Public Input and UWMP Adoption

- Notification of Plan Preparation
- Resources and Infrastructure Committee Review
- Notice of Public Hearing
- Public Hearing and Adoption
- Public Availability

Q&A


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Table 7-5. (DWR Submittal Table 7-5) Five-Year Drought Risk Assessment

Submittal Table 7-5 Retail: Five-Year Drought Risk Assessment - Water Code Section 10635(b)(3)		
2026		**Total**
Total Water Use	(AF)	1,002
Total Supplies	(AF)	1,002
Surplus/Shortfall w/o WSCP Action		0
2027		**Total**
Total Water Use	(AF)	1,002
Total Supplies	(AF)	1,002
Surplus/Shortfall w/o WSCP Action		0
2028		**Total**
Total Water Use	(AF)	1,002
Total Supplies	(AF)	1,002
Surplus/Shortfall w/o WSCP Action		0
2029		**Total**
Total Water Use	(AF)	1,002
Total Supplies	(AF)	1,002
Surplus/Shortfall w/o WSCP Action		0
2030		**Total**
Total Water Use	(AF)	1,002
Total Supplies	(AF)	1,002
Surplus/Shortfall w/o WSCP Action		0