



2020 Urban Water Management Plan

City of Patterson
City Council Meeting

April 20, 2021 (7:00 p.m.)

Maria Encinas, 2020 UWMP Update Project Manager

Jacques DeBra, WRMS

City of Patterson – 4/20/2021 City Council Meeting Agenda

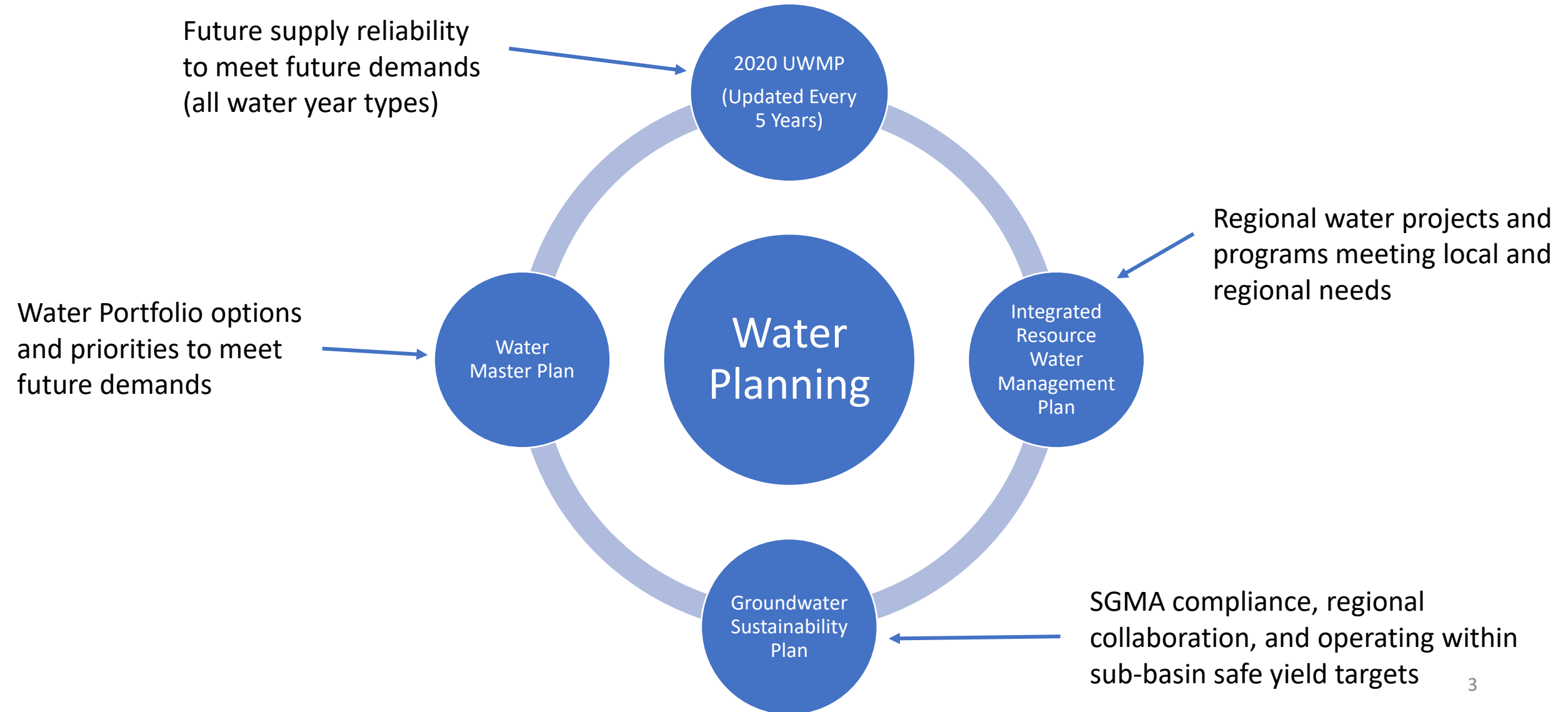
Informational Item – Update on City’s 2020 Urban Water Management Plan (UWMP).

The City is classified as an Urban Water Supplier (those water suppliers that serve more than 3,000 ac-ft of water supply on an annual basis or serve more than 3,000 water connections) and must therefore comply with the State of California Urban Water Management Planning Act and prepare and submit a compliant UWMP every five years. The City must prepare and submit its 2020 UWMP to the State by July 1, 2021.

2020 UWMP Update Objectives:

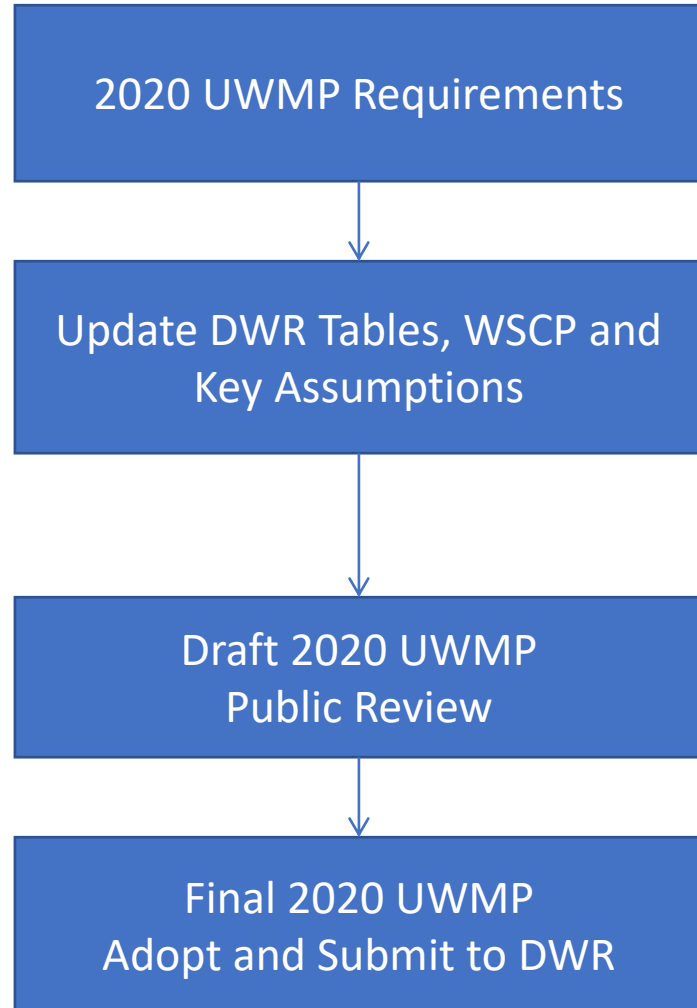
- 1. Prepare compliant 2020 UWMP Report and submit to DWR by 7/1/2021**
- 2. Address all current and new DWR 2020 UWMP requirements**
- 3. Update City Policy/Programs as needed**
- 4. Update Demand and Supply Projections (to 2045 planning horizon)**
- 5. Update City Water Shortage Contingency Plan to meet DWR requirements**

Where UWMP Fits Into City Water Planning Efforts



2020 UWMP Development Overview

- Process and Key Areas Of Focus



Final



MAKING WATER CONSERVATION A CALIFORNIA WAY OF LIFE

Primer of 2018 Legislation on Water Conservation and Drought Planning
Senate Bill 606 (Hertzberg) and Assembly Bill 1668 (Friedman)

PREPARED BY



California Department
of Water Resources

AND

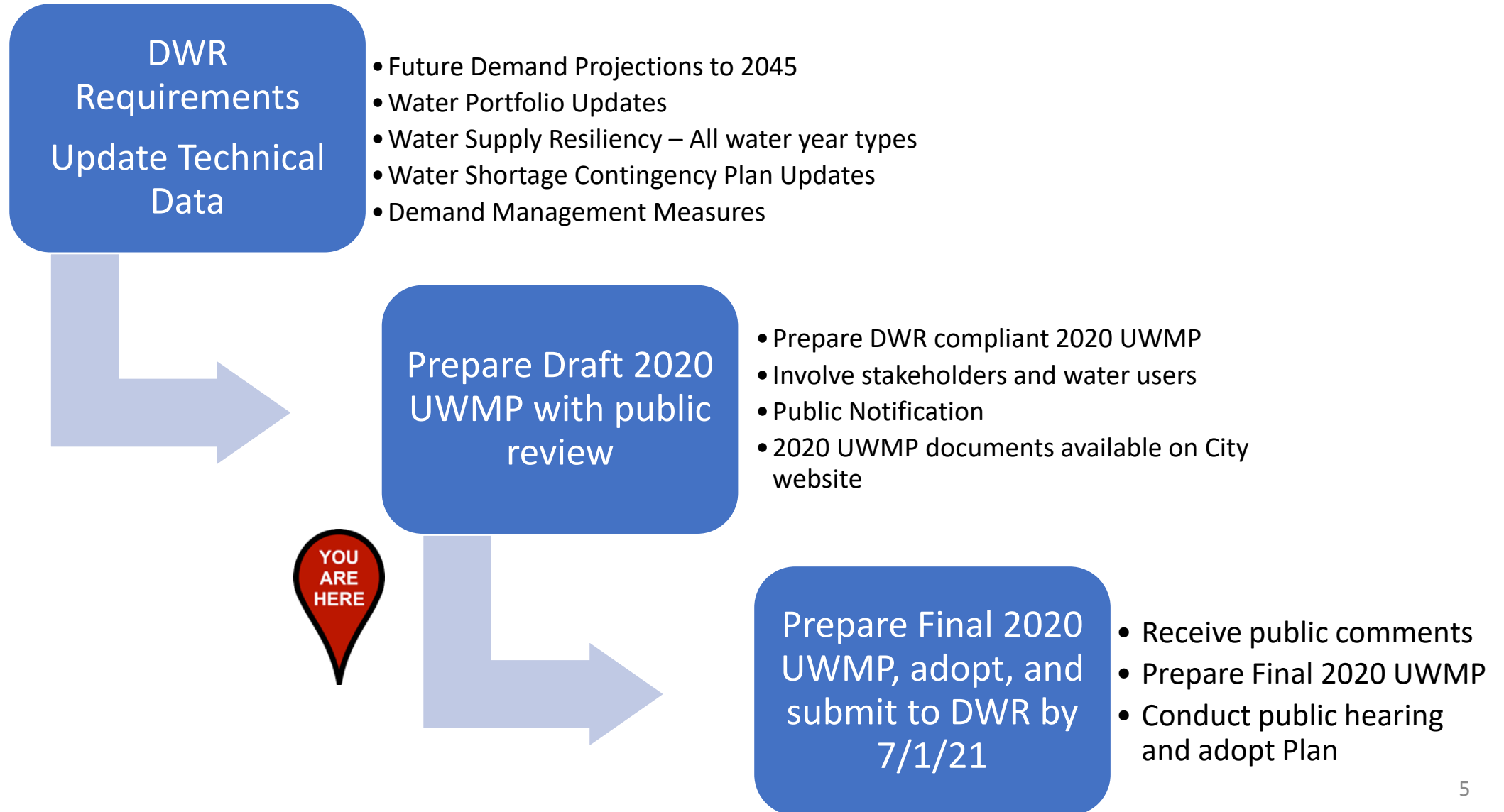


State Water Resources
Control Board

NOVEMBER 2018

Prepare Draft 2020 UWMP for staff review, agency coordination, City website updates for community involvement & outreach!

City 2020 UWMP Development Process



City 2020 UWMP – Stakeholder Outreach

1. Public Notifications (2)

Notice of intent to prepare 2020 UWMP and draft review notifications provided to stakeholders
County and local agencies engaged in Groundwater Sustainability Plan implementation process

2. Draft 2020 UWMP: 30-day public review period [March 29-April 30, 2021]

Available on City website to public and stakeholders for review and comment (through April 2021)

3. City Council Meetings: April 20 and June 1, 2021

Council update and final 2020 UWMP public hearing, adoption and submittal to DWR by July 1, 2021

4. Final 2020 UWMP: Public Notices

Public notices posted on City website and in local newspaper 14 and 7-days prior to 2020 UWMP adoption

5. Final 2020 UWMP

Available for viewing and download on City website to the community and stakeholders



DWR 2020 UWMP Guidebook – Table of Contents

- **Chapter 1: Introduction and Overview**
- **Chapter 2: Plan Preparation**
- **Chapter 3: System Description**
- **Chapter 4: Water Use Characterization**
- **Chapter 5: SBX7-7 Baseline and Targets**
- **Chapter 6: Water Supply Analysis**
- **Chapter 7: Water Service Reliability & Drought Risk Assessment**
- **Chapter 8: Water Shortage Contingency Plan**
- **Chapter 9: Demand Management Measures**
- **Chapter 10: Plan Adoption, Submittal, and Implementation**

Appendices

- Appendix A. California Water Code – Urban Water Management Planning
- Appendix B. Changes to the California Water Code Since 2015 UWMP
- Appendix C. Voluntary Reporting of Delta Reliance
- Appendix D. Regional Water Planning and Reporting
- Appendix E. UWMP Tables and SB X7-7 Verification Form
- Appendix F. Checklist
- Appendix G. Glossary
- Appendix H. References
- Appendix I. Considering Climate Change Impacts
- Appendix J. California Code of Regulations – Industrial Process Water Exclusion
- Appendix K. Estimating Future Water Savings
- Appendix L. Water Loss Auditing
- Appendix M. Recycled Water
- Appendix N. Case Study on Integrated Rate Design and Communication
- Appendix O. Reporting of Energy Intensity
- Appendix P. Annual Water Supply and Demand Assessment (Annual Assessment) Guidance – *In Development*

2020 UWMP – Key Updates

Water Shortage Contingency Plan

Six Response Stages up to > 50% shortage level.
Flexible demand response measure list
Supply augmentation measures
Enforcement – consistent with City Code
Triggers based on local and regional shortage factors

Demand and Supply Projections

Planning horizon through 2045
Demand projections based on 2.26% annual growth
Assumes compliance with 164 gpcd water use target
Future groundwater supplies within safe yield
Assumes future water portfolio diversification

SB 555 Compliance – Water Loss Control

Annual water audits (2016 through 2020)
Validated annual water audits (2016 through 2019)
Performance standard – meet future SWRCB standard
Reduce real water losses by 2025 < 8% non-rev. water

Non-Potable Water Supplies

Implementing City non-potable supply program
Over 500 ac-ft annual non-potable water production
Planning For Additional non-potable water supplies
Evaluate traditional recycled water uses

Water Shortage Contingency Plan (WSCP) Framework

DWR requiring UWS to prepare annual water supply and demand assessments beginning July 1, 2022 to be better prepared for future dry year conditions.

2020 WSCP

Table of Contents

Section 1	Water Supply Reliability Analysis
Section 2	Annual Water Supply and Demand Assessment
Section 3	Water Shortage Stages
Section 4	Shortage Response Actions
Section 5	Communication Protocols
Section 6	Compliance and Enforcement
Section 7	Legal Authorities
Section 8	Financial Consequences of WSCP
Section 9	Monitoring and Reporting
Section 10	WSCP Refinement Procedures
Section 11	Special Water Feature Distinction
Section 12	Plan Adoption, Submittal, and Availability

Water Shortage Contingency Plan (WSCP) Update

- DWR interested in WSCP consistency amongst UWS
- Six Stages (up to >50% shortage)
 - Prepared for worst case shortage scenario
 - Water supply resiliency during all water year types

DRAFT Submittal Table 8-1 Water Shortage Contingency Plan Levels		
Shortage Level	Complete Both	
	Percent Shortage Range ¹ <i>Numerical value as a percent</i>	Water Shortage Condition <i>(Narrative description)</i>
<i>Add additional rows as needed</i>		
1	Up to 10%	Mild Water Shortage - drought or loss of redundant well supply.
2	Up to 20%	Moderate Water Shortage - drought or temporary loss of one (1) well.
3	Up to 30%	Severe Water Shortage - drought, State cutbacks, or loss of one (1) well.
4	Up to 40%	Critical Water Shortage - extended drought, State cutbacks, loss of two (2) wells.
5	Up to 50%	Critical Water Shortage - extended drought, State cutbacks, loss of three (3) wells.
6	>50%	Catastrophic Water Shortage - natural disaster, major system failures, energy supply disruptions.
¹ One stage in the Water Shortage Contingency Plan must address a water shortage of 50%.		
NOTES: Cutbacks in water use will be based on triggered shortage level and percent reduction target based on normal year per capita water use levels.		

gpcd
148
131
115
98
82
< 82

Next Steps

- City Council Meeting #2 [06/01/2021]
 - Conduct Public Hearing for 2020 UWMP
 - Approve updated Water Shortage Contingency Plan
 - Adopt Final 2020 UWMP that meets all DWR requirements
- City Final 2020 UWMP Submittal to DWR [Before July 1, 2021]
 - Submit adopted 2020 UWMP to DWR prior to July 1, 2021
 - Submit adopted 2020 UWMP to State Library prior to July 1, 2021
 - Make adopted 2020 UWMP available to stakeholders within 30 days of adoption
 - Make the City's 2020 UWMP available on its website for public access