

1.0 INTRODUCTION

This Urban Water Management Plan (Plan) was prepared by the City of Rohnert Park (City) in accordance with California Water Code Division 6, Part 2.6, Sections 10610 through 10657 (the Urban Water Management Planning Act, hereinafter Act). The City provides municipal service to over 3,000 customers and meets the definition an urban water supplier as outlined in the Act. This section provides background information on the Plan, an overview of coordination with other agencies, and a description of public participation and Plan adoption.

1.1 Urban Water Management Planning Act

This Plan has been prepared in accordance with the Act, which became part of the California Water Code with the passage of Assembly Bill 797 during the 1983-1984 regular session of the California legislature. The Act requires every urban water supplier that provides water for municipal purposes to more than 3,000 connections, or supplying more than 3,000 acre-feet (AF) of water annually, to adopt and submit a plan every five years to the California Department of Water Resources (DWR). Subsequent legislation has amended the Act. This Plan serves as a long-range planning document for the City's water supply.

Historically the City has adopted a regional Urban Water Management Plan prepared by the Sonoma County Water Agency (Agency), but at this point in time finds it appropriate to prepare its own Plan. The Agency's 2000 Urban Water Management Plan (the 2000 Regional Plan) is the most immediate predecessor to this Plan. As indicated in Section 1.3, below, this Plan was prepared in coordination with the Agency and other neighboring water contractors. Section 1.5 discusses the relationship of this Plan to other water supply planning documents previously adopted by the City.

Table 1-1, on the following page, includes an index of the Act's requirements and directs the reader to the Section of the Plan where the requirements are addressed.

Table 1-1 Index of the Requirements of the Act (All Citations Are to the Water Code)

| Required Element | Citation | Location in Plan |
|--|-----------------|-------------------------------|
| Coordinate Preparation with Other Agencies to the Extent Practical | 10620(d) | Section 1.3 |
| Tools to Maximize Resources and Minimize Imports from Other Regions | 10631(a) | Section 1.2 |
| Service Area Description | 10631(a) | Section 2 |
| Current and Projected Population (5-year increments) | 10631(a) | Table 2-1 |
| Climate | 10631(a) | Section 2.2.1 |
| Other Factors | 10631(a) | Section 2.2.2, 2.2.3, 2.2.4 |
| Existing and Planned Sources of Water (5-year increments) | | |
| Reliability & Vulnerability | 10631(c) | Section 3.7, 4.7.5 and 5.5 |
| Average Water Year Availability | 10631(c) | Tables 3-3, 4-9 and 5-9 |
| Single Dry Year Availability | 10631(c) | Tables 3-3, 4-9 and 5-9 |
| Multiple Dry Year Availability | 10631(c) | Tables 3-3, 4-9 and 5-9 |
| Plans for Replacing Inconsistently Available Sources | 10631(c) | Section 3.1, 4.7.5 and 5.5 |
| Opportunities for Water Exchanges or Transfers | 10631(c) | Section 3.5.2.1, 4.1.3, 5.4.1 |
| Water Quality and Effect of Quality on Supply Management Strategies | 10634 | Section 3.6, 4.5.5 and 5.3 |
| Past, Current & Projected Water Use | 10631(e) | Section 6 |
| Description of Demand Management Measures | 10631(f) | Section 6.3 |
| Evaluation of Demand Management Measures Currently Not Being Implemented | 10631(g) | Section 6.3 |
| Description of all Water Supply Projects & Program Being Undertaken to Meet Demand | 10631(h) | Section 3.9, 4.1.5 and 5.6 |
| Description of Desalinization Opportunities | 10631(i) | Section 8-1 |
| Supply and Demand Data Exchange with Wholesalers in 5-Year Increments | 10631(k) | Table 8-3 |
| Water Shortage Contingency Analysis | | |
| Actions to be Undertaken in Response to Water Supply Shortages | 10632(a) | Section 7.1 |
| Estimate of the Maximum Amount of Water Available during the Next 3 Years Based on Driest 3-Year Historic Sequence | 10632(b) | Table 8-16 |
| Actions to be Undertaken in Response to Catastrophic Interruptions | 10632(c) | Section 7.1 |
| Additional Mandatory Prohibitions Against Specific Water Uses | 10632(d) | Section 7.3 |
| Consumption Reduction Methods for the Most Restrictive Stages | 10632(e) | Section 7.2 |
| Penalties and Charges for Excessive Use if Applicable | 10632(f) | Section 7.4 |
| Analysis of Water Shortage Contingency Methods on Revenues & Expenditures | 10632(g) | Section 7.5 |
| Draft Water Shortage Contingency Ordinance | 10632(h) | Section 7.6 |
| Mechanism for Determining Actual Reductions | 10632(i) | Section 7.7 |
| Assessment of Reliability in the Normal, Single Dry and Multiple Dry Years (5-year Increments) | 10635 | Section 8 |
| Additional Requirements for Groundwater | | |
| Discussion of groundwater management plans/authority | 10631(b)(1) | Section 4.1.4 |
| Description of adjudications or legal rights to pump | 10631(b)(2) | Section 4.1.6 |
| Descriptions of DWR determinations related to groundwater | 10631(b)(2) | Section 4.1.7 |
| Description of the groundwater basin | 10631(b)(2) | Section 4.2 – 4.5 |
| Description and analysis of the location, amount & sufficiency of groundwater pumped in the last 5-years by the City | 10631(b)(3) | Section 4.6.1; 4.7 |
| Description and analysis of the amount and location of groundwater projected to be pumped by the City | 10631(b)(4) | Section 4.6.2; 4.7.6.2 |
| Additional Requirements for Recycled Water | | |
| Description and Quantification of Wastewater Systems | 10633(a) | Section 5.1.1 |
| Description of Current Recycled Water Use in the Service Area | 10633(b) | Section 5.1.2 |
| Description and Quantification of Potential Recycled Water Uses | 10633(c) | Section 5.1.3 |
| Projected Use in the Service Area (5-year Increments) | 10633(d) | Section 5.1.3 |
| Descriptions of Actions Taken to Encourage the Use of Recycled Water | 10633(e) | Section 5.1.4 |
| Plan of Optimizing the Use of Recycled Water | 10633(f) | Section 5.1.4 |

“This is a draft report and is not intended to be a final representation of the work done or recommendations made by Winzler & Kelly. It should not be relied upon; consult the final report.”

1.2 Resource Maximization and Import Minimization

The City is committed by its General Plan policies to wise management and stewardship of its water supply resources.

- Neither the City nor any of its wholesale suppliers import water from outside of the North Coast Hydrologic Region. This minimizes resource importation.
- Recycled water currently comprises over 10% of the City's water supply portfolio. The City plans to expand this to approximately 12%. This maximizes the use of resources and minimizes demands on the potable water supply.
- The City participates with the Agency in the implementation of water conservation measures which maximizes the use of resources and minimizes demands on the potable water supply.
- The City balances its various supplies and allows recycled water and local groundwater resources to augment other water supplies during periods of peak demand and/or hydrologic dry years.
- The City is signatory to the California Urban Water Conservation Council's MOU and is implementing the 14 Best Management Practices.

1.3 Coordination

The Act requires the City to coordinate the preparation of its Plan with other appropriate agencies in the area, including other water suppliers that share a common source, water management agencies, and relevant public agencies. In accordance with the requirements of Section 10631(k), the City coordinated the preparation of its Plan with the Agency (wholesale potable water supplier), the Agency's other Prime Contractors and the Santa Rosa Subregional Water Reuse System (the Subregional System), which provides recycled water service within the City. The City's methods for interagency coordination included:

- Participation in the development of Agency's 2005 Plan;
- Participation in the Agency's Technical Advisory Committee and Water Advisory Committee, two standing Brown Act committees that advise the Agency's Board of Directors on water issues;
- Participation in the Subregional System's Technical Advisory Committee, which advises the Santa Rosa Board of Public Utilities on wastewater treatment and recycled water issues.

This Plan was completed in close consultation with the City's Community Development staff, which is processing a number of planned development proposals. In addition, the City coordinated the preparation of the water demand projections in this Plan with the Association of Bay Area Government's (ABAG) demographic projections.

1.4 Public Participation and Plan Adoption

The City encouraged community and public interest involvement in the Plan through public hearings and inspection of the draft document. Public hearing notifications were published in the local newspaper, *The Press Democrat* on August 14 and August 27, 2007. A copy of the published Notice of Public Hearing is included in Appendix A. Notices of Availability were provided to the Agency, the Subregional System, other Contractors and members of the public who had made requests.

The hearing provided an opportunity for all residents and employees in the service area to learn and ask questions about their water supply and the City's plans for providing a reliable, safe, high-quality water supply. The draft Plan was made available for public inspection at the City Clerk's office, at the public library and on the City's website.

This Plan was adopted by the City Council on _____, 2007. A copy of the adopting resolution is provided in Appendix A.

Table 1-2 provides a summary of the City's coordination and public information activities.

Table 1-2 (DWR Table 1) Coordination with Appropriate Agencies

| | Wholesale Water Supplier | Recycled Water Supplier | Other | Other |
|---|----------------------------|---|----------------------------|--------------------|
| | Sonoma County Water Agency | Santa Rosa Subregional Water Reuse System | Neighboring Water Agencies | Public Involvement |
| Participated in developing the Plan | ✓ | ✓ | ✓ | |
| Commented on the draft Plan | | | | |
| Attended public meetings | | | | |
| Was contacted for assistance | ✓ | ✓ | ✓ | |
| Was sent a notice of intention to adopt | ✓ | ✓ | ✓ | ✓ |
| Not involved/No information | | | | |

1.5 Previous Water Supply Management and Planning Documents

The City has adopted long-range water supply planning documents prior to this Plan. Specifically the City has adopted:

- The Agency's 2000 Regional Plan, which was also relied upon in the City's 2000 General Plan; and
- The City's 2005 Citywide Water Supply Assessment.

In addition, the Agency has adopted its 2005 Plan in accordance with the requirements of the Act.

For reasons more fully explained below, each of these documents includes slightly different numerical representations of the Agency's wholesale supply and the demand upon that supply. There are similar differences reflected in the City's water supply and its water demand. The information the City has relied upon in preparing this Plan is the City's best, current understanding of its water demands and its water supply.

1.5.1 Previous Water Demand Projections in Relationship to This Plan

The Agency's 2000 Regional Plan relied on data from supply meters (i.e., meters on the Agency's turnouts and meters on the City's wells) because the City did not install residential water meters until 2003. The City has observed reductions in demand, since 2003, as a result of meter installation and commodity pricing.

The 2005 Citywide Water Supply Assessment (WSA) utilized both the Agency's 2000 Regional Urban Water Management Plan and an analysis of the available metered use data. The WSA also assumed a ten-percent reduction in per capita demand would occur between 2005 and 2025 as a result of water conservation efforts. This assumption was consistent with the City's water conservation policy which seeks to achieve a ten percent reduction from voluntary conservation efforts.

In addition to reviewing and analyzing the previous work, the preparers of this Plan utilized the results of new demand modeling, which the City undertook with the Agency. This new effort, which is described in detail in Chapter 6, quantifies both existing per capita demands and a range of conservation savings in order to project future demands.

The difference in demands between the WSA and the results of the newer modeling used in this Plan is between two and five percent. These modest numerical differences do not substantively impact the City's long-term planning.

1.5.2 Previous Water Supply Projections in Relationship to This Plan

The City has three sources of water supply: Agency water, local groundwater and recycled water.

Both the 2000 Regional Plan and the Agency's 2005 Plan assume completion of the Agency's Water Supply Transmission System and Reliability Project (the Water Project). The Water Project will increase the capacity of the Agency's transmission system and includes an expansion of the Agency's water rights from 75,000 AFY to 101,000 AFY. In addition, the Agency's 2005 Plan includes the use of a modest amount groundwater to augment the Agency's wholesale water supply. Both the Agency's 2000 Regional Plan and its 2005 Plan represent City's allocation of Agency supply as approximately 7,500 AFY after 2020. Section 10631(k) of the Act allows the City to rely upon the Agency's Plan. However, when preparing this Plan the City assumed, as it did in its WSA, that it would not receive its full Agency allocation. Rather the City assumed that it would receive its share of the Agency's currently permitted 75,000 AFY water right. In the WSA, the City calculated its share of the Agency's currently permitted water right as 6,476 AFY based on available data.

Since the City adopted the WSA, the Agency has adopted a mathematical Water Shortage Allocation Model and has updated its hydrologic model of the Russian River System, each of which is discussed in detail in Section 3. These have provided the City with updated information about the Agency water supply, and that is incorporated into this Plan. The Water Shortage Allocation Model indicates that the City's share of the Agency's currently permitted water rights is 6,372 AFY or within two percent of estimates included in the WSA. This allocation is approximately fifteen percent (15%) less than Agency outlines in its own Plan, and the City believes this conservative estimate is the appropriate one on which to base this Plan.

This Plan assumes that the City will have 2,577 AFY of local groundwater available to it, which is consistent with its technical analysis and its local Water Policy Resolution. This Plan assumes that the City will manage this groundwater resource in accordance with its local groundwater management policies as codified in its Resolution No. 2004-95 (the Water Policy Resolution), which was adopted on April 27, 2004. The Water Policy Resolution specifies that new development outside of the current City limits will not be approved if it would contribute to the City exceeding an average annual pumping rate of approximately 2,577 AFY. This Plan is consistent with the 2005 WSA with respect to groundwater.

This Plan assumes that the Subregional System will continue to deliver recycled water in accordance with its agreements. This Plan assumes that the City will provide funding for a 300 AFY expansion to the recycled water system consistent with the Subregional System's approved Incremental Recycled Water Program Environmental Impact Report (IRWP EIR). This Plan is generally consistent with both the WSA (which projected a 302 AFY expansion of the recycled water system) and the Subregional System's IRWP EIR with respect to recycled water. The City has made slight adjustments to the planned recycled water system expansion volume based on the Subregional System's on-going planning activities.

1.6 Assumptions

The analysis in this Plan is based in part upon assumptions including:

1. The City's future development pattern will be consistent with its General Plan.
2. The City will be able to achieve continued demand reductions through implementation of Best Management Practices (BMPs), Plumbing Code changes and natural fixture replacements.
3. The City will not receive more than its share of the Agency's current 75,000 AFY water rights. The City's share will be calculated in accordance with Section 3.5 of the Restructured Agreement for Water Supply and the Water Shortage Allocation Model adopted by the Agency's Board of Directors.
4. The Subregional System will expand its recycled water deliveries within the City in accordance with IRWP EIR which was certified in 2004. Chapter 5 provides additional detail on the regulatory environment around this assumption.

The City recognizes that the Agency is planning its Water Project as described in the Notice of Preparation for its EIR. While the Agency's 2005 Plan assumes completion of the Water Project

and Chapter 3 provides additional detail on the regulatory environment around the Water Project, the City has not relied upon completion of the Water Project in this Plan. As the City considers updates to this Plan in the future, it will reevaluate the reliability and likelihood of the completion of the Water Project.

The City recognizes that the Agency's 2005 Plan assumes a modest use of groundwater to augment the supply available after the Water Project is completed. As stated above, the City's 2005 Plan assumes that the only available water supply to the City from the Agency is its calculated share of the 75,000 AFY Russian River water supply currently permitted to the Agency from the State Water Resources Control Board.

1.7 Findings

The City recognizes that regulatory agencies may make different decisions or take different actions than is assumed and that this could affect the availability and reliability of its water supply. The City has endeavored to base its projections only upon clearly entitled or reasonably anticipated supply sources and demand projections.

The City finds, given the facts currently available, that the assumptions in this Plan are reasonable. The City will update this Plan on a regular basis, in accordance with the Act, in order to reflect any changes that occur.

1.8 Plan Organization

The remainder of Plan is organized as follows:

- Section 2 provides a description of the service area, climate, and other demographic factors affecting water management and planning;
- Section 3 describes the City's water supply from the Agency including water supply projects and programs under consideration by the Agency;
- Section 4 describes the City's groundwater supply including basin wide groundwater conditions, the 5-year regional groundwater study being performed by the Agency and the United States Geological Survey with financial support from the City and other stakeholders, and local programs related to groundwater management;
- Section 5 describes the City's recycled water supply from the Subregional System including water supply projects and programs under consideration by the Subregional System;
- Section 6 presents historical and projected water use and includes a discussion of the City's current and planned demand management program;
- Section 7 addresses the City's water shortage contingency plan;
- Section 8 provides a comparison of water supplies and demands under a range of hydrologic conditions;

- Appendices A through I provide relevant supporting documents.