

**Rio Linda / Elverta Community Water District
2005 Urban Water Management Plan**

Table of Contents

Chapter	Topic
	Contents
	Abbreviations
	Executive Summary
1.	Introduction and Coordination
2.	Service Area Information
3.	Water Sources
4.	Reliability of Supply
5.	Transfer and Exchange Opportunities
6.	Customer Water Use
7.	Demand Management Measures (BMPs)
8.	Planned Projects
9.	Recycled Water
10.	Development of Desalinated Water
11.	Water Shortage Contingency
12.	Water Quality Impacts on Reliability
13.	Water Service Reliability

Tables	Chapter	Page
Table 1 – Coordination with Appropriate Agencies	1	3
Table 2 - Rio Linda /Elverta CWD Population Current and Projected	2	2
Table 3 – Climate Characteristics	2	3
Table 4 - Current and Planned Water Supplies	3	2
Table 5 - Water Quality Parameters, Consumer Confidence Reports	3	5
Table 6 - Groundwater Pumped 2000-2004 by RLECWD	3	10
Table 7 – RLECWD Groundwater Pumping Forecast 2010- 2030	3	10
Table 8 –Influences Potentially Impacting Supply Availability	4	2
Table 9 – Transfer and Exchange Opportunities	5	1
Table 10 - Unit Water Demand Factors for RLECWD	6	1
Table 11 - Projected Water Demand for RLECWD	6	2

**Rio Linda / Elverta Community Water District
2005 Urban Water Management Plan**

Tables	Chapter	Page
Table 12 – Past, Current and Projected Water Demands by Customer Type	6	3
Table 13 – DMM Distribution of Fees Paid to RWA Water Efficiency Program	7	1
Tables of Demand Management Measures (BMPs) Implementation	7	
Table A - Residential surveys - Actual Implementation		2
Table B - Residential Plumbing Retrofit - Actual Implementation		3
Table C1 – Meter Replacement		4
Table C2 – Future Meter Replacement		4
Table C3 - System Water Audits, Leak Detection, Repair		4
Table E - Large Landscape - Actual Implementation		6
Table F - High efficiency Washing Machines - Actual Implementation		8
Table H - School Education - Actual Implementation		11
Table I – Industrial, Commercial, and Institutional – Rinse and Save Effectiveness		12
Table K – Rio Linda Elverta Community Water District Water Rate Schedule for 2006		13
Table L – Conservation Coordinator - Actual Implementation		14
Table M – Waste Water Prohibition – Actual Implementation		15
Table N –Toilet Replacement – Actual Implementation		16
Table 14 – Planned Water Supply Projects	8	2
Table 15 - Agencies that would likely Participate in Recycled Water Plans Affecting the RLECWD Service Area	9	1
Table 16 – Estimated Wastewater Collected and Treated	9	3
Table 17 – Estimated Wastewater Collected but Not Treated & Not Recycled	9	4
Table 18 – Additional Agencies that May have a Role in a Full Scale Program Involving Dry Creek Recycled Water Projects	9	6
Table 19 - Some Sites Identified by “Dry Creek Recycled Water Groundwater Recharge Feasibility Study” for Potential Reclaimed Water Irrigation	9	7
Table 20 - Potential Recycled Water Uses	9	7
Table 21 - Recycled Water Uses – 2000 Projections compared with 2005 Actual	9	8
Table 22 - Three Year Estimated of Minimum Water Supply 2006-2008	11	1
Table 23 – Some Impacts and Responses for a Catastrophe	11	1
Table 24 –Mandatory Prohibitions	11	3
Table 25 - Penalties and Charges for Existing Regulations	11	3

**Rio Linda / Elverta Community Water District
2005 Urban Water Management Plan**

Tables	Chapter	Page
Table 26 - Actions and Conditions that Impact Revenues	11	12
Table 27 - Actions and Conditions that Impact Expenditures	11	12
Table 28 - Proposed Measures to Overcome Revenue Impacts	11	12
Table 29 - Proposed Measures to Overcome Expenditure Impacts	11	13
Table 30 - Current and Projected Water Supply Changes due to Water Quality	12	1
Table 31 – Projected Normal Year Sources for RLECWD Service Area	13	1
Table 32 - Projected Normal Year Demand in RLECWD Service Area	13	1
Table 33 - Projected Normal Year Supply and Demand Comparison	13	2
Table 34 - Projected Single Dry Year Sources for RLECWD Service Area	13	2
Table 35 - Projected Single Dry Year Demand in RLECWD Service Area	13	2
Table 36 - Projected Single Dry Year Supply and Demand Comparison	13	3
Table 37 – Projected Multiple Dry Year Supplies	13	3
Table 38 – Projected Multiple Dry Year Demand	13	3
Table 39 - Projected Multiple Dry Year Supply and Demand Comparison	13	4
Table 40 - Projected Multiple Dry Year Supply and Demand Comparison 2006-2010	13	4
Table 41 - Projected Multiple Dry Year Supply and Demand Comparison 2011-2015	13	5
Table 42 - Projected Multiple Dry Year Supply and Demand Comparison 2016-2020	13	5
Table 43 - Projected Multiple Dry Year Supply and Demand Comparison 2021-2025	13	5
Table 44 - Projected Multiple Dry Year Supply and Demand Comparison 2026-2030	13	6

Figures

Figure 1 – Location Map of Rio Linda / Elverta Community Water District	2	1
Figure 2 - Comparison of Winter and Summer Water Demand	2	3
Figure 3 – Map of Ground Water Basin including SGA & RLECWD	3	3
Figure 4 - Geologic Formations Underlying Sacramento County	3	4
Figure 5 – Groundwater Hydrographs within the RLECWD Service Area	3	7
Figure 6 – 2002 Groundwater Elevations in Northern Sacramento County	3	8
Figure 7 – Projected 2030 Elevations in Northern Sacramento County	3	9
Figure 8 – Map of Recommended Future Water Supply Facilities	8	3
Figure 9 - Wastewater Collection System within the RLECWD Service Area	9	2
Figure 10 - RLECWD Cumulative Annual Water Use Distribution	11	4
Figure 11 - Water Demand Reductions at Different Water Shortage Stages	11	5

Table of Contents

**Rio Linda / Elverta Community Water District
2005 Urban Water Management Plan**

Appendixes

- A. Resolution 2005-___ of Rio Linda / Elverta Community Water District Board of Director adopting the 2005 Urban Water Management Plan
- B. Groundwater Management Plan - Sacramento Groundwater Authority
- C. Annual Water Conservation Reports of BMP Implementation to meet the Water Forum Agreement
- D. Water Waste Ordinance
- E. California Department of Water Resources Recycled Water Task Force Final Report “Water Recycling 2030”, Examples of Minimum Treatment Levels for Types of Recycled Water Uses
- F. Summary of Comments and Responses to the draft 2005 Urban Water Management Plan