Water Conservation Plan for
The St. Charles Mesa Water District

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Executive Summary

Step 1 – Profile the Existing Water System

1 Profile the Existing Water System
1.0 Name and Contact Information
1.01 Organizations and Individuals assisting with Plan Development
1.1.1 Physical Characteristics of the Existing Water Supply System
1.1.2 Water Sources
1.1.3 System Limitations
1.1.4 Water Costs and Pricing
1.1.5 Current Policies and Planning Initiatives
1.1.6 Current Water Conservation Activities

Step 2 – Characterize Water Use and Forecast Demand

2.1.1 Current Water Use
2.2 Forecasting Method
2.3 Demand Forecast

Step 3 – Profile Proposed Facilities

3.1.1 Facility Needs
3.1.2 Incremental Cost Analysis
3.1.3 Preliminary Capacity and Costs Forecasts

Step 4 – Identify Conservation Goals

4.1.1 Water Conservation Goals
4.1.2 Goal Development Process

Step 5 – Identify Conservation Measures and Programs

5.1.1 Identify Conservation Measures and Programs
5.1.2 Screening Criteria for Conservation Measures and Programs
5.1.3 Application of Screening Criteria

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Step 6 – Evaluate and Select Conservation Measures and Programs

6.1 Create Combinations of Measures and Programs
6.2 Costs and Water Savings of Conservation Options
6.3 Benefits and Costs of Conservation Options
6.4 Define Evaluation Criteria
6.5 Select Conservation Measures and Programs

Step 7 – Integrate Resources and Modify Forecasts

7.1.1 Revise Demand Forecast
7.1.2 Identify Project Specific Savings
7.1.3 Revise Supply-Capacity Forecast
7.1.4 Summarize Forecast Modifications and Benefits of Conservation
7.1.5 Consider Revenue Effects

Step 8 – Develop Implementation Plan

8.1 Develop Implementation Schedule
8.2 Develop Plan for Public Participation in Implementation
8.3 Develop Plan for Monitoring and Evaluation Process
8.4 Develop Plan for Updating and Revising the Conservation Plan
8.5 Define Plan Adoption Date/Plan Completed Date/Plan Approved Date

Step 9 – Monitor, Evaluate and Revise Conservation Activities and the Conservation Plan

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Worksheet 1-3:	Summary of Current Conservation Activities
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Worksheet 3-1:	Anticipated Improvements and Additions
Worksheet 3-1a	Summary of Anticipated Improvements and Additions
Worksheet 3-1b	Long Range Plan for Capital Improvements
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Worksheet 3-3a:	Estimate of Additional Capacity for CIP
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	a Low Flush Toilets
	b Low Flush Urinals
	c Low Flow Showerheads
	d Low Flow Kitchen Faucets
	e Low Flow Bathroom Faucets
	f Efficient Washing Machines
	g Replace old meter w/radio read meters
	h Replacement of lawn with Low Water Use Landscapes
	i Rain Sensors for automated irrigation systems
	j Leak Detection Program
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Worksheet 6-3:	Selection of Conservation Measures/Programs and Estimate of Water Savings
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Worksheet 8-1:	Implementation Schedule for Measures and Programs

B – Design Manual

Water Efficient Fixtures and Appliances:

1. Toilets
2. Urinals
3. Showerheads
4. Faucets
5. Efficient Washing Machines
6. Rain Sensors

Water Efficient Irrigation:

1. Automatic Valves
2. Sprinkler Heads
3. Low Water Use Landscapes
4. Leak Detection

Meter Information

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