

Water Resources Regional Planning Pilot

Proposed Elements of the Regional Plan

Detailed description of the planning region

- o Cities / counties, population and demographics of pilot area
- o Physical description of pilot area including areas on the periphery with potential impact to the pilot
- o Natural resources in the area - lakes and streams, including any ecologically unique river or stream segments, etc.

Community planning, facilitation & outreach

- o Significant organizations for outreach
- o Plans for public interaction throughout the pilot
- o Website for posting information on the process

Current use

- o Sources for the public water supply in the pilot areas (e.g., groundwater, reservoirs, streams, interconnections with other utilities, etc.)
- o Population served by the public water systems and current water uses by sector
- o Unaccounted-for water in the systems (produced but not billed)
- o Quantity of water used by self-supplied residences, industry, etc.
- o Maximum daily and monthly production and average daily production for the past year for the public water systems in the planning area
- o Existing drought management and water conservation plans for the public water systems
- o Current areas of water shortages and surpluses in the region
- o Existing water use demands in the region

Infrastructure

- o Design capacities of the current treatment and storage systems for the public water systems
- o Number of connections and the location of service lines
- o Number and capacity of interconnections between systems
- o Assessment of the ability of public water systems to achieve future required treatment levels and to treat water from any proposed new sources

Resource availability

- o River basins in the planning region
- o Other water sources in the planning region (including those not currently connected to a water system)
- o Firm and sustainable yields from existing water sources
- o Availability of water from sources, including seasonal fluctuations and availability during drought conditions

Resource availability (Cont.)

- o Sources used by agriculture, self-supplied residences and industries
- o Water quality issues of current and potential sources
- o Information on the general rainfall patterns in the region and the magnitude of drought over the past few years
- o Drought and climate change impact issues for current and potential sources
- o Identification of wastewater disposal systems with regard to their potential contribution to downstream supplies (e.g., use of nonpotable water for irrigation, etc.)

Land-use planning

- o Major development / land use plans for the planning region
- o Local economic development goals and any official land use plans, including those adopted pursuant to Title 13 and to PC 1101

Projections and competing uses

- o Population projections for the pilot areas
- o Identified areas of water need (projected water demands exceed the existing water supplies)
- o 20-year demand forecast, with basis, including the estimated demand of any areas the present systems expect to extend service to

Cost structure and economics

- o Results of any energy or water audits
- o Inventory of the unserved areas in the planning region
- o Public water systems current pricing model and adequacy in addressing the true costs of extracting, treating and distributing water
- o Local governments' and utilities' abilities to support the growth driving the water supply demand with fees and tax rates that will be acceptable to the residents of the area
- o Potential socioeconomic impact of not meeting the identified need

Alternatives and recommended plan

- o Adequacy of present sources for projected needs
- o Conservation strategies for residents, agriculture, business and industry in the planning region
- o Potential impact of the implementation of land stewardship practices including low impact development
- o Identify new sources or alternatives, modified reservoir operating guides and any associated costs and quantities including interconnection between systems, consolidation of supplies, etc.
- o In-stream flow prescriptions
- o Resource, policy and/or legislative issues associated with identified alternative sources including legal access issues
- o Identification of any other economic, environmental impacts that might result from implementing the plan

Alternatives and recommended plan (cont.)

- o Outline of NEPA process and timeline, if necessary, as associated with specific alternatives
- o Preferred alternative(s) and the reasons for the preference
- o Recommendations for an energy management program for the water suppliers
- o Determination of how (or if) the communities to be served could finance the proposed alternatives (including construction costs, land acquisitions costs, long term treatment, potential water quality issues, pumping costs, operating costs, etc.
- o Recommended business structure scenario for the management of the preferred alternative(s)

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Going Forward

We invite you to be involved in the pilot going forward by:

- Monitoring the Water Resources Technical Advisory Committee website for meeting announcements and project updates. <http://state.tn.us/environment/boards/wrtac/>

- Providing your email address on the sign in sheet for the regional pilot contact list.

- Reviewing the information provided today and sending any comments to regionalplanning@tn.gov.