

# Potable Water Plan

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## INTENT

The intent of the Water Plan is to facilitate the provision of adequate potable water and cost-effective water facilities in a manner consistent with development, as reflected by the Long-Range Land Use Plan Map; to address existing and potential conditions that could otherwise adversely impact the natural environment and public health, safety, and welfare; and to implement the Safe Drinking Water Act.

Central public water is planned and mapped for the Development and Rural Areas. Extension of central public water shall not be used as a justification for increasing the residential densities that are shown on the Long-Range Land Use Plan Map for a given area.

The Water Plan includes the following components:

- Intent, Goal, Policies, and Action Strategies
- Service Authority Existing and Proposed Water System Maps (fold-out maps)

***GOAL: Provide economically feasible and environmentally sensitive systems of high quality public drinking water supply, transmission, storage, and distribution to serve existing and proposed development as reflected in the Long-Range Land Use Plan Map.***

**WA-POLICY 1: CONTINUE REGIONAL WATER SYSTEM PLANNING SO THAT THE COSTS OF SYSTEM EXPANSION AND INCREASES IN SYSTEM CAPACITY WILL CONTINUE TO BE BORNE BY NEW DEVELOPMENT IN COORDINATION WITH THE PRINCE WILLIAM COUNTY SERVICE AUTHORITY.**

## **ACTION STRATEGIES:**

1. Retain the Prince William County Service Authority as the primary provider of water facilities within the County.
2. Continue private sector financing, in coordination with the Prince William County Service Authority, of all capital costs associated with the expansion of water facilities necessary to serve new development.
3. Monitor the total capacity needs of the area served by the Fairfax County Water Authority and the City of Manassas in order to ensure a sufficient water supply to meet projected demands within Prince William County.
4. Continue to support the Occoquan Monitoring Laboratory, the Northern Virginia Planning District Commission's technical studies, and the multijurisdictional Occoquan watershed program; and obtain annual reports for presentation to the Board of County Supervisors.

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5. Negotiate economically feasible expansions of capacity rights, by and through the Prince William County Service Authority, with the Fairfax County Water Authority and the City of Manassas in order to provide for the projected needs of the County.
6. Continue to reduce the use of groundwater resources for public water supply sources where public surface water supply sources can be utilized effectively.
7. Continue to identify types of point/nonpoint pollution sources upstream from the reservoirs, and to suggest ways that nonpoint source pollution can be eliminated or controlled.

## **WA-POLICY 2: ENSURE ADEQUATE WATER SUPPLIES AND SYSTEM CAPACITIES NEEDED TO SUPPORT PLANNED GROWTH IN ACCORDANCE WITH THE DENSITIES AND INTENSITIES OF THE LONG-RANGE LAND USE PLAN AND MAP, AND IN A COST-EFFECTIVE MANNER.**

### **ACTION STRATEGIES:**

1. Design water facilities according to the densities and intensities reflected in the Long-Range Land Use Plan and Map.
2. Require all future development within the Development Area as reflected by the Long-Range Land Use Plan Map, to connect to public water facilities. Permit all future development within the Rural Area, as reflected by the Long-Range Land Use Plan Map, to connect to public water facilities.
3. Require new development utilizing public water systems to fund, in coordination with the Prince William County Service Authority, the capital costs associated with expanding the water facility, including line extensions and plant capacity expansions.
4. Prepare the necessary standards and regulations to require existing and future water users, including those in the Rural Area, to connect to public water facilities if such development is or may cause a public health hazard.
5. Support a 100-percent reserve requirement for all drainfields, or equivalent mechanisms for achieving the same goal, regardless of percolation rate, for all developments in the County that are not developed with public sewer.
6. Determine the extent of groundwater contamination throughout the County.
7. Coordinate with the Prince William County Health District and the Virginia Department of Environmental Quality when identifying critical groundwater areas.

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8. Develop a Wellhead Protection Program utilizing procedural guidelines and information available from the U.S. Environmental Protection Agency and the Virginia Ground Water Protection Steering Committee to protect or improve the groundwater quality of Prince William County.
9. Identify critical groundwater and groundwater recharge areas throughout the County, as well as the developments that abut or are located within those areas. Once these areas have been identified, require applicants for rezonings, special use permits and/or Comprehensive Plan amendments, where appropriate, to consider this information.
10. Under existing laws and regulations, require industries and utilities to monitor and report chemical leaks.
11. Locate nonresidential activities that use, store, or manufacture significant quantities of toxic substances away from the County's water bodies and critical groundwater areas.
12. Encourage the use of semipervious or pervious surfaces where appropriate.
13. Promote the use of secondary containment storage tanks for petroleum products and other hazardous material.
14. Encourage the minimum density/intensity of development, as reflected by the appropriate land use classification shown on the Long-Range Land Use Plan Map, around the shore of the reservoirs located in the County.
15. Conduct a study to determine appropriate land use densities near the Occoquan Reservoir, the County's primary public water supply, and evaluate the option of creating an overlay district for the area.
16. Where not otherwise required as part of the Chesapeake Bay Act for designated Resource Protection Areas, require a minimum 100-foot setback from the shorelines of public water sources for development-related ground disturbance activities. Preclude disturbance activities on any area where contiguous slopes greater than 20 percent are adjacent-to shorelines, and extend beyond the 100-foot setback.
17. In cooperation with Fairfax County, evaluate the option of restricting, by ordinance, the use of internal combustion engines on the Occoquan Reservoir.
18. Focus future publicly-funded capital improvement programs for water facility expansion projects into the Development Area.
19. Utilize the fold-out Existing and Proposed Water System Map to identify the general or approximate location, character, and extent of the features shown thereon.

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Such features shall be planned, sited and buffered in a manner so as to provide compatibility with surrounding existing and planned land uses, and shall meet the appropriate policies and action strategies of the Community Design Plan and the Long- Range Land Use Plan.

20. All proposed water towers or storage facilities will be subject to a Virginia Code Section 15.2-2232 public facility review.

**WA-POLICY 3: PROVIDE FOR A COMBINATION OF SAFE, EFFICIENT, AND AFFORDABLE PUBLIC WATER SYSTEMS AND PRIVATE WELLS IN THE RURAL AREA WHILE MAINTAINING THE LAND USE DENSITIES DELINEATED IN THE LONG-RANGE LAND USE PLAN MAP AND UPHOLDING THE POLICIES AND ACTION STRATEGIES OUTLINED IN THE COMPREHENSIVE PLAN.**

## **ACTION STRATEGIES:**

1. Allow private well systems within the Rural Area where public water systems will not or cannot be provided, so long as natural environmental conditions and system design characteristics are conducive to their efficient operation.
2. The existence or extension of a public water system to serve a site shall not promote increased densities which would not otherwise be allowed given the application of the various chapters of the Comprehensive Plan and relevant compatibility issues.
3. The existence or extension of a public water system in the Rural Area shall not provide justification for altering the land use classifications in the Long-Range Land Use Plan and Map.
4. Investigate the feasibility of obtaining grant funds for use by the County for water extension to areas with a high potential for well contamination or inadequate supply of groundwater.
5. Inventory groundwater resources in the Rural Area. Once these areas have been identified, require applicants for rezonings, special use permits and/or Comprehensive Plan amendments, where appropriate, to consider this information.

## **WATER CHAPTER PLAN MAPS**

The Existing and Proposed Water System Maps that illustrate this plan reflect existing potable water facilities and proposed facility improvements.