



### FACTS AT A GLANCE

PlanCheyenne will consider the areas that are served water and sanitary sewer services by either the City of Cheyenne Board of Public Utilities or the South Cheyenne Water and Sewer District, including where these utilities are located to serve current and future area residents. The plan will also identify areas that might be serviceable in the future.

#### Water and Sewer

##### Board of Public Utilities (BOPU) – Potable/Treated Water System

- Current capacity is 40 million gallons per day (mgd).
- Current average daily demand is 15 mgd.
- Current peak day demand is 37.3 mgd (July 2, 2002).
- Projected average daily demand (2052) – 24.7 mgd (1% growth).
- Projected peak day demand (2052) is 61.3 mgd (1% growth).
- Current treatment storage capacity is 35 million gallons.
- Areas above 6,200 feet must be served by booster pumping station.

##### Board of Public Utilities (BOPU) – Wastewater System

- Current Plant Treatment capacity is 13.5 mgd.
- Plant capacity after improvements currently under construction (2008) is 17 mgd.
- Current average day demand (last 5 years) is 9.2 mgd.
- Peak month last 5 years demand is 13.5 mgd (May 1999).
- Projected average day demand (2052) is 17 mgd (1% growth).

##### Board of Public Utilities (BOPU) – Non-Potable/Reuse System

- Currently raw water is provided to three 18-hole golf course & Lions Park.
- Planning is underway for a \$10 million water reuse and reuse distribution system.
- Initial water reuse for irrigation will help decrease the annual demand for treated water by about 5% or 900 acre-feet.
- Average annual demand (last 5 years) – 643 acre-ft.

##### South Cheyenne Water and Sanitation District (SCWSD)

- The SCWSD provides water and sewer service to the area along the S. Greeley Highway and along College Drive.
- The SCWSD acquires water from the BOPU.
- Currently, some customers in the district experience low water pressure during peak hours.
- This district is currently only about 45% built out. The district can not expand because it is surrounded by BOPU service area.



### TRENDS AND KEY ISSUES

- **Board of Public Utilities Plan:** The BOPU 2003 *Water and Wastewater Master Plan* provides a 10-year capital improvement and financing plan. The plan assumes a one percent growth rate and plans for 17,200 additional residential units by 2052.
- **Raw Water Supply and Delivery:** BOPU *Master Plan* recommends expanding groundwater supply in the near term (1,500 ac-ft/year increase). In the mid-term the Plan recommends (a) 5% water conservation; or (b) expanding groundwater supply to 7,000 ac-ft/year; or (c) reuse at 10%.
- **Potable Water Treatment:** The BOPU is considering options to expand peak day capacity, that include expansion of Sherard WTP, construction of new wells, and combined surface and groundwater expansion.
- The BOPU *Master Plan* identifies projects, that if constructed, would expand wastewater collection lines to the south of the City within the urban development boundary. See *Utilities (Existing and Proposed) Map*.
- The Wastewater Treatment Plant Projects will increase capacity and will meet 20-year growth requirements for 17 mgd at 1.0% growth.



## Water and Sewer, Continued...

### Public Health – Well and Septic Permits

- The Cheyenne/Laramie Health Department records show 1,180 rural septic permits were issued in the County since 2000—an average of 295 per year.
- Growing numbers of septic and wells in the county raise concerns about groundwater and well contamination.

### Stormwater

- The Sub-area and Infrastructure Improvement Plans for the Cheyenne Area contain specific stormwater utility improvements. The summary of the plans includes an up-to-date status report of various stormwater projects.
- Currently, new development projects are not required to pay for stormwater facility improvements. Existing stormwater facilities in the area are undersized and would not provide adequate flood relief.
- The *Physical Features* map shows the flood hazard areas in and around the Cheyenne area. Several high priority CIP projects have been identified, including flood and property damage hazards in the Dry Creek Basin, Capitol Basin, Crow Creek Basin and other smaller basins, but the city does not have funding for these projects.



### TRENDS AND KEY ISSUES, CONT.

- ***Stormwater:*** Voters did not approve a proposed City of Cheyenne Stormwater Utility in November 2004.
- The community will need to find other ways to pay for high priority CIP projects and flood protection and stormwater improvements in the basins.

#### Sources:

Board of Public Utilities 2003 *Water and Wastewater Master Plan*.

#### Maps:

Utilities (Existing and Proposed)  
Physical Features & Constraints

