Purpose and Need For the Halligan Water Supply Project

Halligan Water Supply Project Need

The need for the HWSP is to secure additional system firm yield for Fort Collins necessary to satisfy its projected 2065 municipal and industrial demands.

Halligan Water Supply Project Purpose

The purpose of the HWSP, as defined by the Corps, is to provide additional system firm yield for Fort Collins in order to satisfy an additional need of approximately 7,900 AF per year to meet its projected approximate 2065 municipal and industrial demands with water of a quality comparable to the water now delivered to its customers.

Firm Yield Calculation – Maximum amount of demand that can be met with available supply during a representative hydrologic period. This was based on the Fort Collins 2010 water rights portfolio and considered the ability to meet the demand in a 1-in-50 year critical drought period while maintaining the 15% safety factor.

Safety Factor – In 2010, Fort Collins required that 15% of the average annual demand remain in its storage reservoirs at any time to accommodate unanticipated stresses on the water delivery system. This level is common to Colorado’s Front Range water providers.

Projected Demand

- Population projection factors – historical growth rates, projections from local, regional and state planning agencies and analysis of residential and industrial development within the service area
- Water demands and requirements calculated using a gallons per capita per day approach
- Long term historical average was calculated at 151 gallons per capita per day
- More recent period (2004 to 2014) includes conservation programs that are in place lowering the calculation to 132 gallons per capita per day