PROJECT DESCRIPTION

♦ Located on the Ruby River in Madison County, 7 miles south of Alder
♦ Construction completed in 1938
♦ Owned by DNRC & managed by SWPB
♦ Operated by Ruby Water Users Association since 1938

♦ Project consists of:
  • Earthen Embankment Dam, 112.5 feet high, 846 feet long
  • Reinforced concrete chute spillway with 3-cycle labyrinth weir crest
  • 90 inch reinforced concrete outlet conduit upstream of gates; 72 inch steel conduit downstream of gates
  • 60-inch and 18-inch jet flow operating gates and 72-inch knife guard gate

♦ Storage at full pool is 37,642 acre-feet, covering 970 surface acres.
♦ The dam is a “high hazard” structure which means that its failure could cause loss of life. Farms, ranches, numerous homes, roads, bridges, and utilities are located in the flood plain.

WATER USE

♦ 194 contracts for 38,845 acre-feet of water delivered through two canals: West Bench (12 miles long) and Vigilante (26 miles long) Canals
♦ Water is primarily used for irrigation; reservoir also used for water-based recreation and regulation of stream flows
REHABILITATION SUMMARY

A major rehabilitation of the Ruby Dam began in August 2010.

♦ Phase 1 of the rehabilitation included removing and replacing the spillway, and the development of a new maintenance access road. Phase 1 was completed in December 2011.

♦ Phase 2 of the project included constructing a new outlet works conduit, operating gates, gate operating system, and gate house. The majority of the construction was completed in the summer of 2014.

♦ Funding for the rehabilitation project came from numerous sources including: Hydropower Revenue, Water Storage Account, RRGL Grant and Loan, and the Ruby Water User’s Association.

♦ Project costs (engineering and construction): $16,970,000.

FUTURE NEEDS

The rehabilitation project brings the dam into full compliance with current dam safety standards. No deficiencies currently exist.