



**COLORADO**

Colorado Water  
Conservation Board

Department of Natural Resources

## Emergency Raw Water Storage Repair

Big Elk Meadows Association

Substantially Complete February 1, 2020



Mirror Lake and Intake Structure



Willow Lake and Intake Structure



Rainbow Lake Reservoir

### Project Description

During the unprecedented flood of September 2013 in the tributaries to the South Platte River, a significant number of diversion structures and dams along the river corridor were damaged. Measured rainfall in and around Big Elk Meadows exceeded the 1,000-year Average Recurrence Interval for rainfall. Flow along the West Fork reached historic levels and resulted in the destruction of all five dams; both flow monitoring stations; the community's access road (CR-47); the majority of interior roads; and the water, power, and telephone services. The purpose of this project was to restore the community's water supply by reconstructing five dams and two monitoring stations. During the next six years the community secured the funding and technical expertise to reconstruct the destroyed infrastructure. The lakes have been restored with new infrastructure and can now be utilized for community water purposes.

P R O J E C T D A T A		
<i>Sponsor:</i> Big Elk Meadows Association	<i>County:</i> Boulder/Larimer	<i>Water Source:</i> West Fork of the Little Thompson
<i>Type of Loan:</i> Reservoir Rehabilitation		<i>Board Approval Date:</i> January 2014
<i>Loan Terms:</i> 0.0% for 6 years, 2.75% for 27 years (Original) \$1,515,000 (Final) \$2,020,000		
<i>Design Engineer:</i> GEI Consultants, Inc.		
<i>Contractor:</i> Zak Dirt, Inc.		