



Dam Outlet Works Rehabilitation Project

Oligarchy Irrigation Company
Substantially Complete April 1, 2017



Project Description

The Oligarchy Irrigation Company owns and operates the Oligarchy #1 Dam and Reservoir, also known as Burch Lake. The reservoir stores 1,737 acre-feet of water and is classified as a significant hazard dam by the State Engineer's Office Dam Safety Branch (SEO). The purpose of the project was to rehabilitate the aging outlet works per the SEO's recommendation as the existing outlet was pressurized through the embankment, had difficult access for inspection and difficult operation of the valve, and the overall poor condition of the outlet structure. The Project constructed a new outlet works gate vault, outlet works piping, intake structure, and discharge structure. With the new upstream gate there is now a way to inspect the outlet works system without draining the lake. After completing final design and receiving contractor bids, the company sought, and was approved for, a 15% increase to the loan contract at the May 2016 Board Meeting. Construction began in May 2016 and was completed in October 2016.

P R O J E C T D A T A		
<i>Sponsor:</i> Oligarchy Irrigation Company	<i>County:</i> Boulder	<i>Water Source:</i> St. Vrain Creek
<i>Type of Project:</i> Dam Rehabilitation		<i>Board Approval Date:</i> July 2015
<i>Final Terms of Loan:</i> \$901,930 @ 2.40% for 30 years		
<i>Design Engineer:</i> Deere & Ault Consultants		
<i>Contractor:</i> Moltz Constructors		
<i>Project Elements:</i> Outlet Works incl. 24" diameter sluice gate, trash rack, 24" restrained concrete encased outlet pipe, discharge structure		