



Carson Reservoir Dam Rehabilitation

City of Grand Junction
Substantially Complete January 1, 2024

Carson Reservoir is a 56-foot-high, 620-foot-long earth dam that underwent repairs between 2021 and 2023. Below are images showing the intake structure/gate and downstream view of the overflow weir.



Project Description

The City of Grand Junction's Utilities Department oversees the Water Services Division which is responsible for operation and maintenance of the water supply, treatment, and distribution system. This system serves a population of about 30,000 and is expected to increase to about 49,000 by 2069.

The Carson Reservoir Dam is a 56-foot-high, 620-foot-long earthen dam constructed in 1947 which impounds a 520 acre-foot reservoir on Kannah Creek. The State Engineers Office (SEO), Comprehensive Dam Safety Evaluation raised several safety concerns about the Carson Reservoir Dam, and in response the City contracted with Ayers Associates to evaluate the concerns and to design improvements. ESCO Construction was contracted by the City to make the repairs, which included developing an overflow weir, rehabilitating the spillway chute, constructing a new intake structure, rehabilitating the outlet works pipe, constructing a seepage collection channel, and installing a flood early warning system. SEO - Dam Safety Branch provided a notice of completion December 2023 and the Project was substantially completed on January 1st, 2024.

P R O J E C T D A T A		
<i>Sponsor:</i> City of Grand Junction	<i>County:</i> Mesa	<i>Water Source:</i> Kannah Creek
<i>Type of Project:</i> Dam Rehabilitation		<i>Board Approval Date:</i> November 2020
<i>Loan Terms: (Original)</i> \$3,030,000 <i>(Amended)</i> \$4,343,000 <i>(Final)</i> \$4,343,000 @ 1.00% for 10 years		
<i>Design Engineer:</i> Ayers Associates Inc		
<i>Contractor:</i> ESCO Construction Inc		