

Olivenhain Dam

The core of the San Diego County Water Authority's (SDCWA) Emergency Storage Plan, this \$139-million, 318-foot-high roller compacted concrete (RCC) dam—the tallest in North America—stores more than 24,000 acre-feet of water for the SDCWA and the Olivenhain Municipal Water District.

PROJECT RESULTS

Kleinfelder's innovative laboratory test reporting and automation program made results understandable and accessible online for all design and construction team members, providing the client with a unique, time-saving, and cost-saving solution to this major dam construction project.



MOST EFFICIENT AND COST-EFFECTIVE OPTION

Kleinfelder staffed the dam project with 12 inspectors and technicians at all hours, six days a week. Besides designing the onsite laboratory, Kleinfelder provided testing and consulting in developing and qualifying the site-manufactured concrete aggregates, including gradation and quality, conducting more than 40 concrete mix designs in order to determine the most efficient and cost-effective option. Kleinfelder compiled and reported results using a state-of-the-art database system, streamlining data processing, and quality assurance evaluation.

ON-SITE LABORATORY SERVICES

The SDCWA sought a quality assurance team that could provide continuous staffing around the clock throughout this RCC dam's construction, as well as an onsite laboratory with a reliable and experienced technical staff to provide exceptional materials testing at a high-volume rate.

Location:

San Diego County, CA

Owner:

San Diego County Water Authority

