



Atlantic Park - Surf Park

Virginia Beach, Virginia, USA

Keller provides dewatering and earth retention solutions at a new wave park, located just two blocks from where the Atlantic Ocean and Chesapeake Bay converge.



The project

A 2.67-acre surf lagoon joins the beach resort town, adding a lagoon and wave pool that will create almost 1,000 waves per hour. With a planned 14-ft excavation, the working grade for foundation construction would be 7 ft below the static groundwater table.

Keller was contracted to provide excavation support and dewatering to facilitate the excavation in dry conditions. Keller installed 835 linear feet of 35-ft-long sheet piles, followed by the installation of a system of shallow and deep dewatering wells. The dewatering system successfully lowered the groundwater table to 5 feet below the planned excavation depth.

Due to the shallow excavation required, Keller installed the shallow wellpoints using a jetting system rather than traditional drilling, which reduced costs and schedule. Keller installed 73 wellpoints coupled with four deep wells.

Project facts

Owner(s)

Venture Waves Surf, LLC

Keller business unit(s)

Keller

Main contractor(s)

W.M. Jordan Company, Inc.

Engineer(s)

Keller
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