

## Red Sky Ranch and Golf Course Intake



WWE designed a water delivery system for the Red Sky Ranch residential development and Golf Club in Eagle County. The water system to serve the development initially included an infiltration gallery, raw water pump station, water treatment facility, potable water distribution system and water storage tanks. The raw water supply plan was later modified to include a surface water intake from the Eagle River, also designed by WWE and described below.

The surface water intake structure is located on the Eagle River at Wolcott. It was designed to take in at least 1,400 gallons per minute. Riverbed excavation was minimized to reduce sediment intake into the raw water pump station.

The design included two stub outs, one to carry water from the intake structure to the raw water pump station and another for a possible future infiltration gallery. A screen and sand trap were required in the raw water pump station clearwell.

WWE services on the Red Sky development water delivery and storage system included conceptual design, design of intake structure, opinions of probable construction cost, design drawings, regulatory submittals to Eagle County and the Colorado Department of Public Health and Environment, services during bidding, services during construction and final record drawings.

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