

AMERICAN WATER COMPANY -  
MISSOURI  
CMAR RAW WATER INTAKE AND PUMP STATION  
JEFFERSON CITY, MISSOURI



## Project Description

Reynolds constructed a new raw water intake and pump station for an existing Water Treatment Plant. The purpose of the project was to replace the current raw water intake and pump station that was originally built and placed into service in the 1800s. We increased capacity and provided future capacity of 8.5 MGD in the new raw water intake. The wet well is approximately 19' in diameter and 75' deep with a divider wall in the middle to allow complete dewatering of either side. Once the wet well, or shaft, was completed, we built a 7'x7' horseshoe shaped tunnel approximately 200' through bedrock to a point underneath the river. This tunnel houses the 20" ductile iron intake lines, 1"-4" stainless steel lines. Prior to the tunnel reaching the river, our marine crews installed two 48" diameter vertical shafts in the location of the intake screens.

## At a Glance

**Contract Amount:**  
\$7.8 M

**Notice to Proceed:**  
August 10, 2010

**Completion Date:**  
May 7, 2012

**MGD:**  
8.5

**Owner:**  
American Water Company -  
Missouri

**Engineer:**  
Black & Veatch