

Two Lick Creek Water Treatment Facility Improvements

Client: Pennsylvania American Water Company-Indiana District

Indiana, PA

Year: 2018 Cost: \$3,250,000



The Pennsylvania American Water Company (PAWC) operates the 6.0 MGD Two Lick Creek Water Treatment Facility that serves 24,000 consumers in Indiana Borough and White Township. Gwin, Dobson & Foreman was retained to design a new stream intake structure and a new chemical storage and feed system.

The \$3.25 million project included the following features:

- A new intake system was constructed in the stream channel consisting of two (2) 4 MGD Johnson half-screens with an airburst system for periodic back-flushing of the screens. Made of type 304 stainless steel, the screens have a nominal 3 mm mesh opening size with a maximum intake velocity of 0.50 fps.
- A concrete debris diversion structure (for screen protection) was built in a cofferdam-type PortaDam®. A 20-ft. deep concrete valve chamber and pipe gallery was constructed along the streambank and interconnected to the treatment facility.
- Chemical feed and storage improvements for lime, caustic soda, ferric chloride, chlorine disinfection and corrosion control were provided along with relocation of the fluoride injection system. A 2,000 SF addition to the chemical feed building was built along with a loading dock for chemical deliveries.



Two Lick Creek Water Treatment Facility Improvements

Client: Pennsylvania American Water Company-Indiana District

Indiana, PA

Year: 2018 Cost: \$3,250,000

