

Pine Grove North Water System Extension

Client: PADEP Bureau of Abandoned Mine Reclamation/Clearfield Municipal Authority

Clearfield County, PA

Year: 2019 Cost: \$6,500,000



The DEP Bureau of Abandoned Mine Reclamation provided funds to extend waterlines to the Pine Grove North-Glen Richey area. Existing water supplies in the area did not meet minimum state and federal drinking water standards due to impacts of legacy underground and surface coal mine operations. The Clearfield Municipal Authority system provided the water supply from its Fire Tower service area and Gwin, Dobson & Foreman performed full design-phase services for the project including plans, specifications and permitting. The project included the following work elements:

- 100,000 LF of 6-8 in. waterlines and 155 service connections
- Pipelines installed by horizontal directional drilling and open-cut excavation methods
- Packaged water booster pumping station (duplex 15-HP, 150 GPM pumps)
- Sodium hypochlorite chemical feed system and chlorine analyzers
- 100,000-gallon bolted, stainless steel water storage tank and pressure reducing valve vault
- Mixing systems at Fire Tower/Pine Grove North tanks for disinfection byproducts control and maintenance of chlorine residual levels

GD&F performed engineering, design, construction consultation and startup and commissioning services. The system was designed to the standards of the Clearfield Municipal Authority who will operate and maintain the water system.

Pine Grove North-Glen Richey Area Water System Extension

Client: PADEP Bureau of Abandoned Mine Reclamation/Clearfield Municipal Authority

Clearfield, PA

Year: 201p Cost: \$6,500,000

"The Pine Grove Waterline Project will eliminate health and safety hazards to the community and provide a safe, reliable public drinking water supply," said DEP Secretary Patrick McDonnell. He added, "This project not only promotes public health by providing safe drinking water to residents, but it also promotes economic development by providing vital infrastructure to support businesses, making future development in the area possible,"