



## **BERNIER CONSTRUCTION, INCORPORATED PROJECT SUMMARY**

**Project Title:** Dents Run Acid Mine Drainage (AMD), Phase II Site 3888, Elk County, PA

**Location:** Benezette Township, Elk County, PA

**Scope:** Provide labor, materials, equipment, and supervision for the reconstruction of a passive AMD treatment pond

Berner Construction was contracted by REACT Environmental Engineers for the reconstruction of a passive acid mine drainage treatment pond for the U. S. Army Corps of Engineers at the Dents Run AMD Project Site 3888 located in Benezette Township, Elk County, PA. The existing pond was constructed in 2004. It was an HDPE-lined pond that was overlain with sand to protect the HDPE liner. As reported by PA DEP, the system was under-performing, and therefore USACE contracted a consulting firm to design a retrofit for the system.



**Dewatering the Pond**

The project included the dewatering of the pond and the removal of the sand. Treatment media was placed in the basin for the passive treatment of the acid mine drainage (AMD). The treatment media is intended to raise the pH of the AMD to allow the acidic materials to precipitate and settle out of the water prior to discharge to the existing stream.

Berner's tasks included the removal of 400 cy of sand from the existing HDPE lined pond. Berner utilized a vacuum truck to remove the sand.

The sand was reused as pipe bedding for the conveyance piping. An underdrain system consisting of 8-inch perforated drainage pipe was installed in the pond. The passive treatment pond was completed with the placement of treatment media consisting of limestone and mushroom compost material.

This project included the preparation and approval of the CQC Plan, Accident Prevention Plan, Environmental Protection Plan, Spill Control and Contaminant Prevention Plan, Recycling and Waste Minimization Plan, and Sand Removal Plan prior to start of construction.



**Pond with Sand Removed, showing Underdrain**