

MCCASLIN ROAD PASSIVE TREATMENT SYSTEM



View of the constructed settling pond (background) and aerobic wetland (foreground). The white milky color within the settling pond are aluminum precipitates.

Location: Findlay Township, Allegheny County, PA

Constructed: 2009

Project Description: This passive treatment system was installed to treat acidic, metal-bearing drainage from an abandoned underground coal mine located west of Clinton Road (SR3089) in Findlay Township, Allegheny County. The system was constructed on the Findlay Township Public Works property. As part of the project, an auto-flushing vertical flow pond and settling pond/wetland was constructed. A collection system conveys the AMD to the vertical flow pond beneath Clinton Road via a pipe inserted through a horizontal boring. BioMost, Inc. provided design, permitting, and construction services, and continues to provide operation and maintenance services for the passive treatment system. Maintenance in September 2012 included stirring the treatment medium within the Vertical Flow Pond with an excavator and flushing metal precipitates that had formed within the system.

Environmental Benefits: The system is preventing about 14,000 lbs of acid and 1,700 lbs of aluminum annually from entering the West Fork of Enlow Run, tributary to Montour Run.

References:

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