

Huff Run Watershed - JS & L AMD Reclamation Project

Generated by Non-Point Source Monitoring System
www.watersheddata.com

Project Status: Complete 10/16/2015 Project Number: TS-Sn-45

Pre-construction



Acid mine drainage emanating from abandoned coal mine
Photo by Huff Run

Post-construction



Sludge precipitation basin downstream of limestone leach bed
Photo by Frank Martin

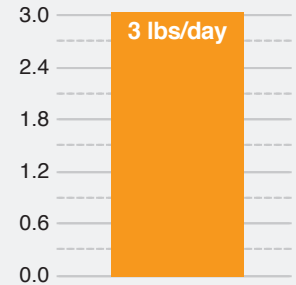
JS&L AMD reclamation project is located in Section 4 of Sandy Township in Tuscarawas County and lies within the 12 digit HUC unit #050400010804. JS&L AMD reclamation project is needed to address abandoned coal mining drainage and the resulting acid mine drainage (AMD) that has negatively impacted Huff Run. The treatment approach for this project is to capture and passively treat acid mine drainage. A 12,000 sq ft precipitation basin was constructed and 568 linear feet of limestone channels. The area located directly adjacent (south) of the existing acid mine drainage problem area, was graded (5.25 acres) to capture acid mine drainage and convey it through an engineered, passive limestone leach bed (8,000 sq ft) treatment system, before discharging into an unnamed tributary of Huff Run. The overall goal is to achieve 70% reduction of iron load and 100% reduction of the acid load. Design completed in-house at DMRM (\$56,769). Construction was completed by Red Malcuit, Inc. for \$234,321. The funding source for this project was ODNR/DMRM and OEPA. Pre-treatment acid and metal loadings at Site HR25 are shown in Figure 1.

SITE: HR25

Pre treatment acid load



Pre treatment metal load



Data derived using the Mean Annual Load Method (Stoertz, 2004).

Figure 1. Estimated acid and metal loadings prior to treatment