

# Raccoon Creek Watershed - Buckeye Furnance

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Project Status: Complete: 6/20/1999 ODNR Project Number: Jk-MI-18

## Pre-construction



Mine waste in valley, Photo by Raccoon Creek Partnership

## Post-construction



Successive Alkaline Producing System (SAPS), Photo by Ben McCament

Buckeye Furnace and Buffer Run Project is located in Section 25 of Milton Township in Jackson County and lies within the 12-digit HUC unit #050901010403. The site is 65 acres and is located in the Little Raccoon Creek subwatershed. Deep mining of the area resulted in continuous AMD discharge from underground mines to Buffer Run, a tributary to Little Raccoon Creek. This area was also strip mined and used for a wash plant facility for a deep mine operation, resulting in several unreclaimed coal refuse areas and slurry ponds draining to Buffer Run. The design was completed by BBC&M Engineering Inc. for \$125,000. The treatment approach for this site was to eliminate strip pits, reclaim the gob pile, and install a Successive Alkaline Producing System (SAPS) a passive treatment system. The major considerations for this project was mostly source control and but also constructing a passive treatment system. The goal of the design was to reduce 75 percent of the acidity discharging into Little Raccoon Creek. Construction was complete June 20, 1998, by Earth Tech Inc. for a cost of \$1,090,530. The funding source for the project design was ODNR-DMRM, and for construction the sources were ODNR-DMRM, OEPA and OSM. Pre-treatment acid and metal loadings at site BR0010 are shown in figure 1.

## SITE: BR0010

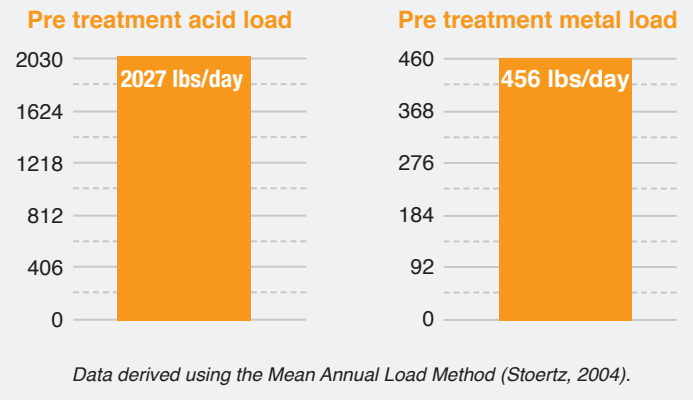


Figure 1. Estimated acid and metal loadings prior to treatment