

Raccoon Creek Watershed - East Branch Phase II and III

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Project Status: 2010-2011 ODNR Project Number: HC-St-14 HC-St-18

Pre-construction EB II



Kern Hollow SLB site, Photo by Amy Mackey

Post-construction EB II



Steel slag bed at Kern Hollow, Photo by Amy Mackey

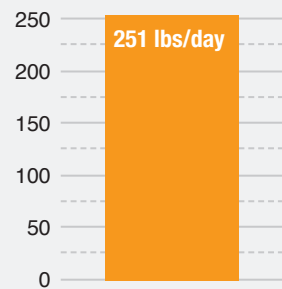
Post-construction EB III



EB III Winifred SLB Photo by Amy Mackey

SITE: EB190

Pre treatment acid load



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

Figure 1. Estimated acid and metal loadings prior to treatment.

East Branch Phase II and III (EB II and III) are located in Section 14 of Starr Township in Hocking County and lies within the 12 digit HUC unit #050901010201 just south-east of Union Furnace. EB II and III project discharge, site EB190, is located just upstream of Laurel Run Road bridge. East Branch Phase II (EB II) project, completed in Dec. 2010, consists of constructing three steel slag beds in the project area: Kern Hollow, Northwood, and Forrest. East Branch Phase III (EB III) constructed in spring 2011, consists of one 7,800 square foot steel slag bed, minimal surface reclamation (2 acres), and a 520 ft open limestone channel. All of these projects lie on Wayne National Forest property. The designs were completed by ODNR-DMRM in-house EB Phase II \$49,343 and EB Phase III \$26,705. The

treatment approach for this site is to install four steel slag leach beds (SLB) to add alkalinity to East Branch. At EB III in spring 2012, sediment washed in from heavy rainfall, sediment was scraped off to unclog the SLB. The goal of the design is to reduce acid at the site EB190. During high flow, precipitated metals are evident at EB190 with high levels of aluminum. Therefore, metal load reductions are not occurring at site EB190. Construction was completed fall 2010 at EB II by Stimmel Construction for a cost of \$671,788. EB III was completed in spring 2011 by Tuscon Inc. for \$323,036. Funding source for the project design and construction is ODNR-DMRM and OSM. Pre-treatment acid and metal loadings at site EB190 are shown in figure 1.