

Raccoon Creek Watershed - East Branch Phase I Maintenance Project (Nelsonville UPC)

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Project Status: maintenance complete 5-17-2012 ODNR Project Number: UP-HC-11

Pre-construction



EB Phase I site 8 slag bed
Photographer: Amy Mackey

Post-construction



EB Phase I site 8 slag bed
Photo by Amy Mackey

East Branch Phase I Project is located in Section 14 and 15 of Starr Township in Hocking county and lies within the 12-digit HUC unit # 050901010201. The East Branch Phase I project was originally completed in December of 2007. Several of the beds clogged within a few months of project completion. Most of the valves leaked or did not work correctly (figure 1 and 2 – year 2011). By 2011, the clogging had increased and the alkalinity being produced had decreased (slag was exhausted). Therefore, new Slag was installed at sites 1 (368 tons), 3 (240 tons) , 5 (480 Tons), 7 (495 tons), and 8 (1140 tons). Under drain piping was extended (linear footage listed below):

Site 1 – 240 lf of 4” underdrain
Site 3 – 250 lf of 4” underdrain
Site 5 – 265 lf of 4” underdrain
Site 7 – 225 lf of 4” underdrain
Site 8 – 600 lf of 4” underdrain

Valves were replaced at all sites except Site 8. Site 6 was abandoned. Design were completed in-house by ODNR-DMRM. Maintenance construction started 11-3-11 and was complete 5-17-2012. Stimmel Construction completed the maintenance construction, \$240,378. Figure 1 and 2 show the yearly acid and metal load reductions. Year 2011 data shows acid reduction at 53 % with no metals reduction. Year 2012 data shows the initial results of the maintenance project with 100% acid reduction and 52%

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Figure 1. Yearly acid load reductions

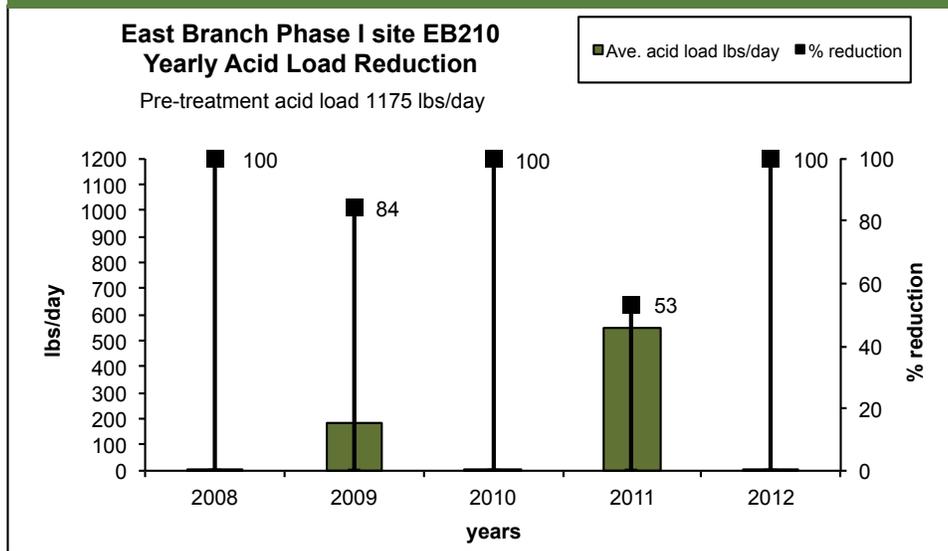


Figure 2. Yearly metal load reductions

