

Raccoon Creek Watershed - Flint Run Wetland Enhancement Project

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Project Status: completed 5/29/2015 ODNR Project Number: JK-MI-76

Pre-construction



Flint Run Wetland
Photo by Amy Mackey

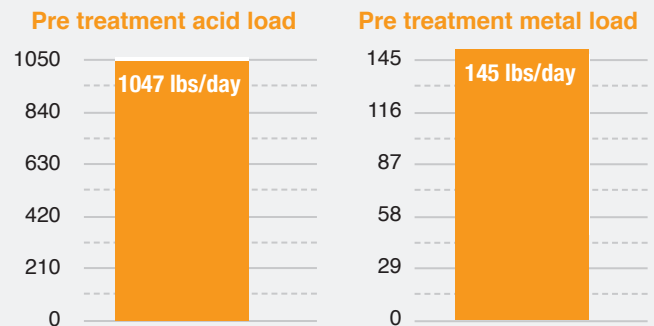
Post-construction



Flint Run Wetland Berm
Photo by Amy Mackey

Flint Run Wetland Enhancement project is located in Section 16 of Milton Township in Jackson County and lies within the 12 digit HUC unit #050901010403. Flint Run Wetland Enhancement project is needed to address abandoned underground and surface coal mining of the Clarion Coal Seam – No. 4a, and the resulting acid mine drainage (AMD) that has negatively impacted the entire Flint Run watershed. Typical water quality entering Little Raccoon Creek from Flint Run is pH 4.0, aluminum concentration of 7 mg/l, and iron concentrations of 13 mg/l. The project location is downstream of multiple AMD treatment projects and the bulk of the abandoned coal mining. The existing wetland was enhanced by the installation of one limestone berm across the Flint Run Valley. The cross berm will allow metals to settle out in the wetland rather than being transported downstream to Little Raccoon Creek. Design completed in-house at DMRM (\$19,874). Construction was completed by King Environmental Construction for \$143,054. The funding source for this project was ODNR/DMRM and OSM. Pre-treatment acid and metal loadings at Site FR095 are shown in Figure 1.

SITE: FR095



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

Figure 1. Estimated acid and metal loadings prior to treatment