

Raccoon Creek Watershed - Middleton Run Reclamation II

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Project Status: completed 5-22-2015 ODNR Project Number: JK-ML-75

Pre-construction



Middleton Run Reclamation II pre-construction trash and spoil piles
Photo by Sarah Landers

Post-construction

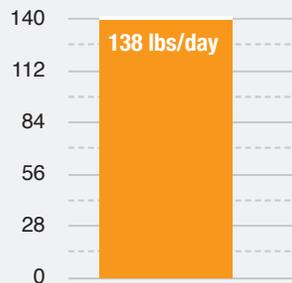


Middleton Run Reclamation II nearly finished
Photo by Sarah Landers

Middleton Run Reclamation II located in Section 16 of Milton Township in Jackson County and lies within the 12 digit HUC unit #050901010403. It lies within the Little Raccoon Creek basin approximately 1 mile east of Wellston. The primary purpose of the Middleton Run Reclamation II project is to reduce the impacts of acid mine drainage (AMD) on Little Raccoon Creek. The project was proposed to address abandoned surface coal mining of the Clarion Coal Seam – No. 4a, and the resulting AMD that has negatively impacted the entire Middleton Run Subwatershed. Our program goal is to restore Little Raccoon Creek's aquatic life use designation to Warm Water Habitat. Overall, our treatment approach was to reclaim 52 acres of spoil and 8 acres of pits that make up the project site. The strip pits contain millions of gallons of AMD that seep through the spoil and then discharge as seepage from the hillside along the coal pit floor. Design was completed in-house by ODNR-DMRM. Construction started in August 2013 and was complete 5-22-2015. Red Malcuit completed construction, \$1,609,396. Funding source for the project design is ODNR-DMRM and construction is ODNR-DMRM, ODOT mitigation funds, and OSM. The project was complete 12/31/2014. Prior to construction, Middleton Run site, MiR0110, shows acid and metal loadings to be 138 lbs/day of acid loadings and 22 lbs/day of metal loadings (Figure 1).

SITE: MiR0110

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

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