

# Raccoon Creek Watershed - Orland Gob Pile

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Project Status: Completed 5/14/12 ODNR Project Number: VN-Sw-02

## Pre-construction



Gob Pile with erosional gullies  
Photo by Amy Mackey

## Post-construction

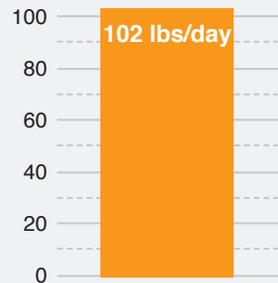


Re-graded and re-vegetated hillside where Orland Gob Pile previously stood. Photo by Amy Mackey

Orland Gob Pile project is located in Section 2 of Swan Township in Vinton County and lies within the 12 digit HUC unit #050901010202. The Orland Gob Pile project discharge, site WB050, is located on an unnamed tributary that drains to the West Branch of Raccoon Creek at river mile 2.0 (figure 2). The project consists of approximately a six acre refuse (gob) pile. The exposed gob pile generates acid mine drainage and erodes coal fines into the West Branch of Raccoon Creek. The treatment approach for this site consists of incorporating lime into the gob and re-soil material, grading the gob pile to obtain positive drainage, covering the gob with suitable re-soil material, installing a limestone diversion channels (975 linear feet) around the site and establishing vegetation. The goal of the design is to reduce approximately 60 lbs/day of acid loads and 14 lbs/day of metal loads from entering the West Branch of Raccoon Creek. The design was completed by ODNR-DMRM in-house, \$34,940. Construction was completed by Seifert Construction for \$197,535. Funding source for the project design and construction is ODNR-DMRM and OSM. Pre-treatment acid and metal loadings at site WB050 are shown in Figure 1.

## Site: WB050

### Pre treatment acid load



### Pre treatment metal load



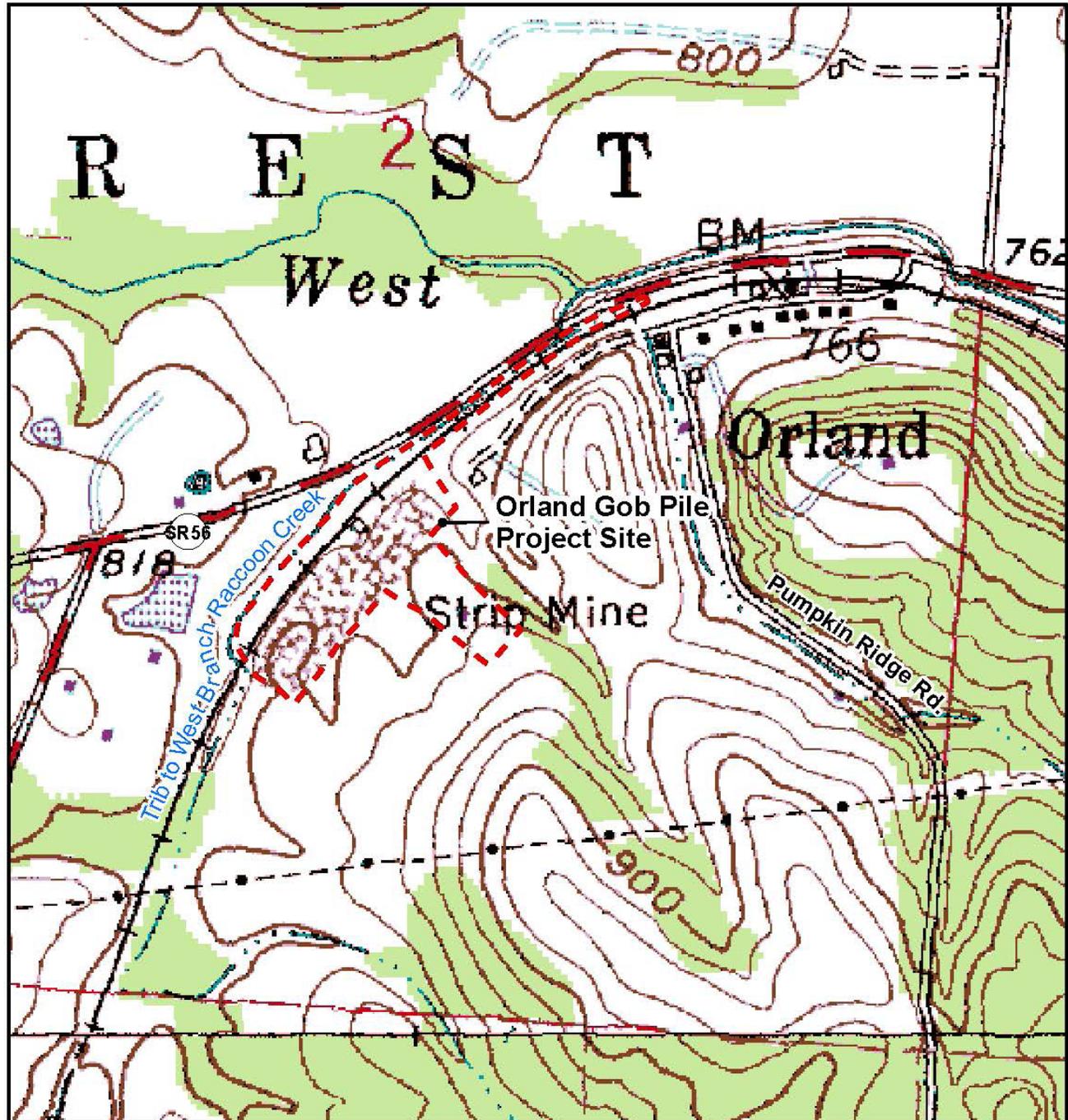
Data derived using the Mean Annual Load Method (Stoertz, 2004).

Figure 1: Estimated acid and metal loadings prior to treatment

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## Orland Gob Pile Project Site Vinton County, Swan Township, Section 2



0 190 380 760 1,140 1,520 Feet



Map prepared by Kaabe Shaw, ODNR-DMRM 10-14-10

Figure 2. Orland Gob Pile Project Site