



Armstrong Lake Restoration - Oakdale Library Retrofit



Clean Water Funds: 2011

Clean Water Grant	\$48,270
Leveraged Funds*	\$18,655
Total Project Budget	\$66,925

* Leveraged Funds include required 25% local match

Targeted Water:
Armstrong Lake

Project Sponsor:
Washington Conservation District

Partners:
South Washington Watershed District, Washington County

Grant Period:
January 2011 - December 2012

Project Contact:
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Project Narrative

The Washington Conservation District (WCD), Washington County, and South Washington Watershed District (SWWD) are partnering to retrofit water quality improvement practices at the Oakdale Library. The goal is clean water and the project will work toward the 101 pound phosphorus load reduction target for Armstrong Lake identified in the SWWD Watershed Plan. The project will also benefit Wilmes Lake, which is downstream from Armstrong and is impaired by excess nutrients. This project is also specifically identified in the Washington County Municipal Storm Sewer System (MS4) Retrofit Program and is considered a priority in the County.

The retrofit design will address nutrient reductions through runoff volume control. It is anticipated phosphorus will be reduced by approximately 10 pounds, which is 10% of the total target load reduction for Armstrong Lake. Concept designs envision the installation of a large bioretention facility and multiple raingardens to treat runoff from the library parking lot and roof. As these are vegetation-based practices using many native plants, these practices will not only improve water quality, but also improve habitat, sequester carbon, and reduce heat island effect. In addition to the direct environmental benefits, retrofitting stormwater treatment at a County Library provides tremendous public visibility and education opportunities. The library is owned and operated by Washington County and long-term interpretation and education about the retrofit project will be provided at the facility.





Currently runoff from parking lot directly enters sewers

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Artistic rendition of raingarden to capture stormwater runoff



Raingardens to be built on library property to filter stormwater runoff