



Aladdin Street Bio-Infiltration Basin Retrofit Installation



Clean Water Funds: 2010

Clean Water Grant	\$32,000
Leveraged Funds*	\$10,500
Total Project Budget	\$42,500

* Leveraged Funds include required 25% local match

Targeted Water:

Owasso Lake

Project Sponsor:

Grass Lake Watershed Management Organization

Partners:

Ramsey Conservation District, City of Roseville

Grant Period:

January 2010 - December 2011

Project Contact:

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Project Narrative

At 410 acres, Lake Owasso is the largest lake in the Grass Lake Water Management Organization (GLWMO) and one of the most pristine. Maintaining the lakes water quality is a priority for the GLWMO.

A long urbanized area along Aladdin Street in Roseville currently lacks stormwater features to remove pollutants and reduce water volume. The rainwater from this area drains directly to a wetland which is hydrologically connected to Lake Owasso. Adjacent to the residential area is a 0.5 acre parking lot which drains into a ditch which eventually enters the same wetland. The rainwater that runoffs from the parking lot also lacks treatment facilities, and due to an extreme change in grade, is causing major erosion problems.

In a cooperative effort, the Grass Lake Watershed Management Organization, Ramsey Conservation District and City of Roseville came up with a solution. The parking lot runoff will be re-routed so it enters the adjacent residential stormwater conveyance system. A bio-infiltration basin will then be installed to capture and treat the combined rainwater runoff from both sites. This bio-infiltration basin will annually remove an estimated 864 lbs of sediment, 2.5 lbs of phosphorous, and 10.88 lbs of nitrogen, which would have otherwise entered the wetland. The project is scheduled to be completed during the 2011 construction season.

