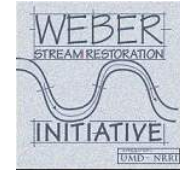


Weber Stream Restoration Initiative
Progress Report, July 2008 (rev. October 2008)
Amity Creek Restoration Activities



1. Amity Creek bank stabilization (East Branch, aka “Upper” Amity)

Status (pending permits; funding secure):

- Engineering design work near completion – needed to obtain permits
Lead: South St. Louis Soil & Water Conservation District. Implementation will be facilitated by contribution from WSRI fund.
- Permit(s) from MN DNR Duluth Region Fisheries in preparation (need final design plans)
- Permit from City of Duluth – Project reviewed and approved by Stormwater Utility and Engineering staff pending DNR permit approvals
- 2008 Baseline water quality, biological communities, fish habitat assessment, and detailed bank mapping completed by NRRI (EPA and MPCA grants).
- Grant funds will be requested to generate baseline 2009 and post-construction water quality, sediment load, and biological monitoring data at the site to assess project results and cost-effectiveness Project was personally initiated by Mr. Weber who made an additional direct contribution for materials and construction in early 2008.

Background:

- Eroding banks on the East Branch Amity Creek within Duluth city limits identified based on initial surveys by NRRI scientists in 2005-6
- Lead Agency: South St. Louis Soil & Water Conservation District
Keith Anderson, P.E., Conservation Engineer- Keith.Anderson@southstlouisswcd.org
- Multiple agencies providing in-kind support to solve the problem and reduce erosion.

2. Graves Road Creek restoration

Status (pending permits; funding unclear; design plans near complete):

- Surveying and engineering design work in progress – needed to obtain permits
Lead: City of Duluth Public Works -Engineering and Stormwater Utility. Final engineering design to be funded by WSRI fund (via NRRI) to be completed by Dec 2008.
- Baseline water quality, biological communities, and fish habitat assessment completed (and ongoing) by NRRI. Funds secured to collect baseline and some post-construction water quality (2008-2010), sediment load, and biological monitoring data at the site to assess project results and cost-effectiveness (EPA grant). Detailed bank mapping to occur Fall '08.
- Permit(s) from MN DNR – applications not yet prepared (awaiting final design).
- Funding – City pursued several sources but none successful; current situation unclear (Sep 2008 – City has now budgeted \$130,000 for implementation in 2009 after WSRI provided \$25,000 funding for engineering design)

Background:

- Just upstream from the WSRI automated water quality sensors on lower Amity Creek, a small tributary has discharged a muddy plume during rainstorms and snowmelt runoff for decades since Graves Road was destroyed and abandoned after a flood.
- Lead Agency: Duluth Public Works (Engineering & Utility Operations-Stormwater)
Gary Minck, P.E., Chris Kleist gminck@duluthmn.gov and ckleist@duluthmn.gov
- City designed 3-phase restoration including new culverts, flow rerouting, and bank slope reductions and stabilization to stop erosion. Extensive discussion with South St. Louis Soil & Water Conservation District, NRRI and other partners since 2006 and implementation awaiting appropriation by city of Duluth utilities operations.
- High potential for success; tied to Lester-Amity Park use, recreation, neighborhood green space; Linked to EPA funded lakeside Stormwater Reduction Project (2008-2010).

1. Amity Creek bank stabilization (Upper Amity East Branch)



2. Graves Road Creek restoration (Lower Amity)

