Lower Sand Creek Corridor Restoration

Public Meeting

Coon Creek Watershed District City of Coon Rapids

May 22nd, 2018

Please sign in

Agenda

Please sign in

Introductions

Project Presentation

Background Proposed project details

Discussion

Questions, Concerns, Suggestions

Introductions





Coon Creek WD

Justine Dauphinais

Water Quality

Jon Janke

Operations & Maintenance

Dawn Doering

Information & Education

Ed Matthiesen

Engineer (Wenck)

City of Coon Rapids

Tim Himmer

Public Works Director

Mark Hansen

Assistant City Engineer

Gregg Engle

Parks Supervisor

Tom Schibilla

City Forester

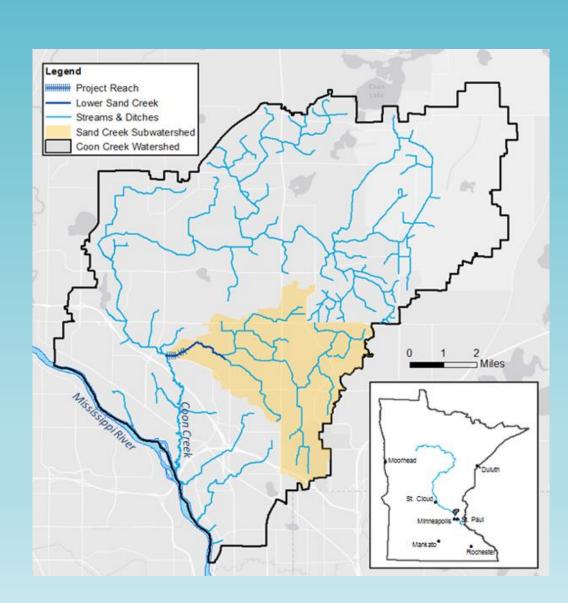
Background

Sand Creek Drainage Area

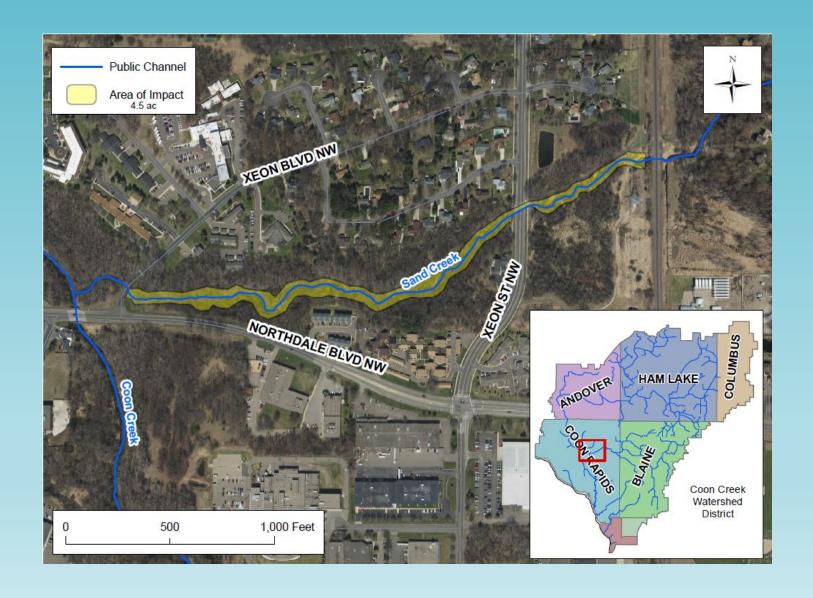
Size: ~16 mi²

Suburban land use

Upstream area ditched for agriculture & now serves as stormwater conveyance system.



Location: Xeon Blvd to Railroad



Current Status of Sand Creek

Sand Creek does not meet State standards for recreation or aquatic life (impaired)

Stressors:

Excess Sediment

Excess Phosphorus

Poor Habitat

Altered Hydrology



Past Projects to address stormwater

2010-2015:

- Constructed new stormwater pond at Xeon St.
- Modified 2 pond outlets to hold more water
- Installed 25 Rain Gardens
- ❖ Installed 2 "SAFL Baffles"





Proposed Project

Purpose:

Reduce erosion (sediment & nutrients)

Enhance habitat for native species

Provide long-term channel stability/ reduce maintenance needs

Approach: 1/2-mile Stream Corridor Restoration

Cost: \$464,721

NO COST to local taxpayers

Federal 319 grant: \$269,563

MN Clean Water Fund grant: \$195,158



3 methods to stabilize eroding banks:

Vegetated Rock Riprap (~1100 LF)



3 methods to stabilize eroding banks:

Vegetated Rock Riprap (~1100 LF)

Re-grading & seeding (~1500 LF)

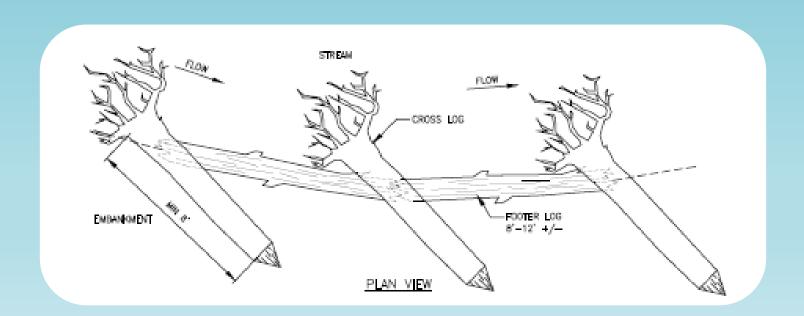


3 methods to stabilize eroding banks:

Vegetated Rock Riprap (~1100 LF)

Re-grading & seeding (~1500 LF)

Woody materials: log toes, root wads, revetments (~1600 LF)



Habitat features:

Incorporating wood in stream stabilization practices

6 cross vanes to create riffles & pools

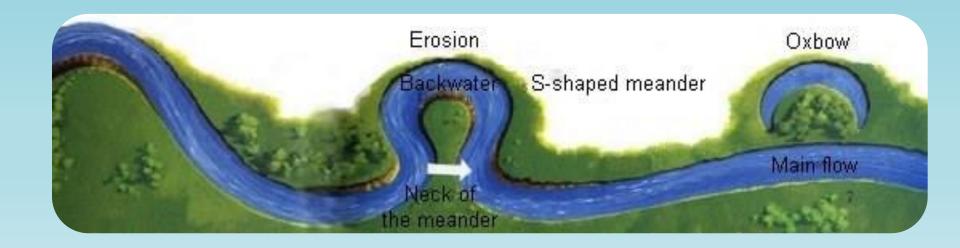


Habitat features:

Incorporating wood in stream stabilization practices

6 cross vanes to create riffles & pools

Excavating 3 backwater pools



Habitat features:

Incorporating wood in stream stabilization practices

6 cross vanes to create riffles & pools

Excavating 3 backwater pools

Buckthorn removal & tree-thinning (~50%)

Planting native species





Citizen engagement:

Newsletter & webpage updates: www.cooncreekwd.org/LowerSandCreekResto

Install interpretive signage

Host "Watershed walks"



Design Rendering

By Wenck

A: Root wads

B: Log Toe

C: Backwater pool

D: Cross Vane

E: Vegetated riprap





Project Timeline

Spring 2018: Planning

Summer 2018: Bid & Award Contractor

Fall-Winter 2018-19: Construction

Spring-Summer 2019: Site restoration/vegetation establishment

2019-20: Phase II: Railroad to Pedestrian Bridge upstream of Olive St.

Issues & Concerns

- Maintain wild & natural character of area
 - Use pollinator-friendly plant species
 - Enhance with nesting boxes?
- Heavily-used trail corridor
 - Safety
 - Temporary closures
 - Lack of dog waste disposal stations
- Storm damage/ resiliency
- Construction disturbance/ noise
- ❖ Long-term maintenance

Questions, Concerns, Suggestions?

Thank you!



Contact:

Justine Dauphinais & Jon Janke 763-755-0975 www.cooncreekwd.org/LowerSandCreekResto

1960 vs 2016





2015 Streambank Erosion Assessment

Sand Creek Subwatershed:

83 sites 931 tons/yr

Project Reach:

16 sites 372 tons/yr

Erosion hotspot!



