

DNR Priority Concerns – Lower MN River West 1W1P

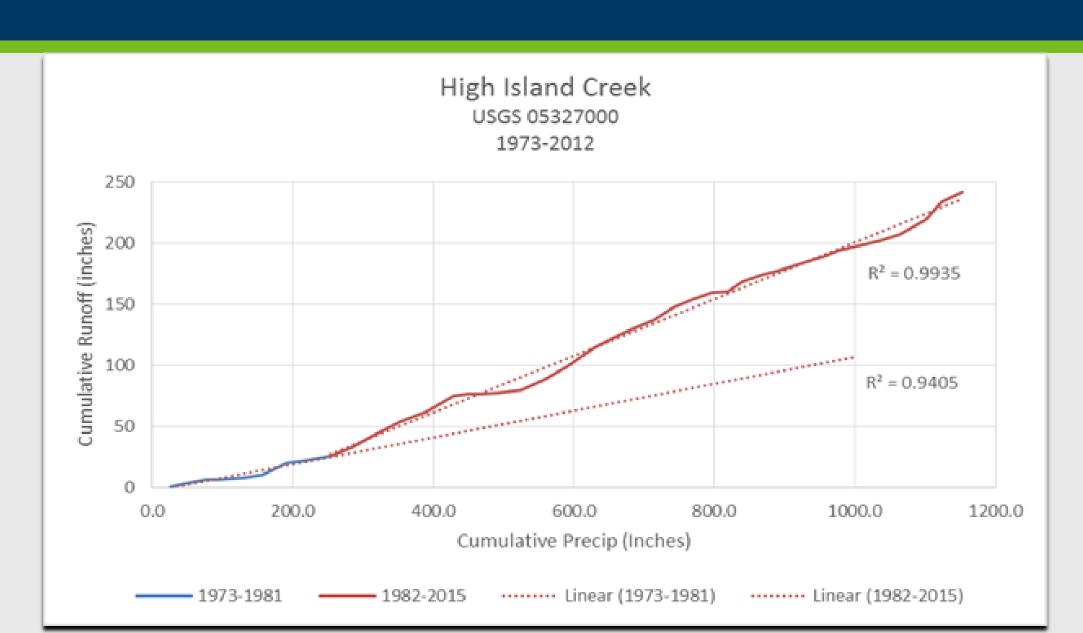
Garry Bennett | Area Hydrologist



Topics

High-Level Issue	Priority Resource Concern
Hydrologic Conditions	Addressing Hydrologic Change
	Flood Damage Reduction
Clean Water	Water Quality
	Erosion & Sedimentation
	Shoreland & Riparian Zones
Sustainable Water Supply	Groundwater Supply
	Surface Water Supply
Outdoor Recreation & Natural Resources	Habitat
	Biodiversity
	Protect Existing Natural Areas
	Outdoor Recreation

- Addressing Hydrologic Change
 - "Too much water, too fast"
 - Storage
 - Infiltration
 - Multipurpose drainage management



- Flood Damage Reduction
 - Bridge and Culvert Design
 - Dams
 - Public and Private Drainage



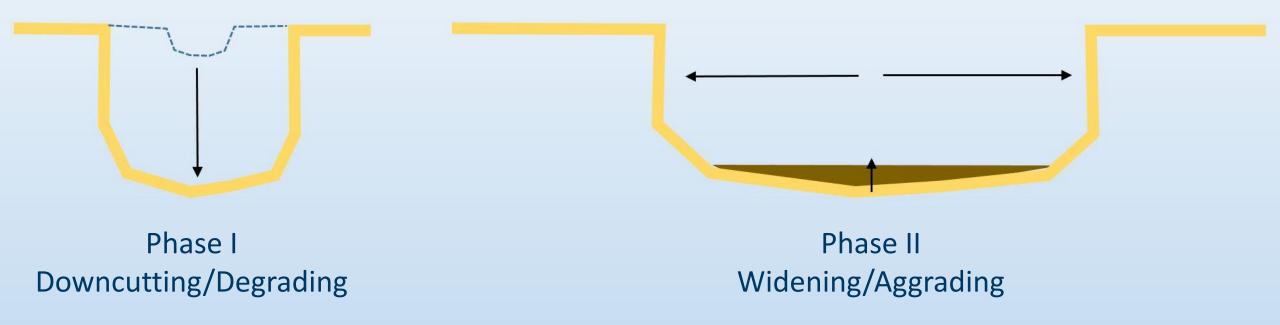


- Water Quality
 - Healthy Watersheds
 - Targeting BMPs for Maximum Benefit
 - Reducing Phosphorus

- Erosion & Sedimentation
 - Unstable Streams
 - Damages
 - DNR Watershed Characterization Report

https://wrl.mnpals.net/islandora/object/WRLrepository%3A2620

Beginning Phases of Channel Evolution





- Shoreland & Riparian Zones
 - Preserving or Restoring Shoreline Buffers
 - Stream and Floodplain Restoration
 - Unstable Bluffs
 - Zoning

Lake Washington, Meeker County





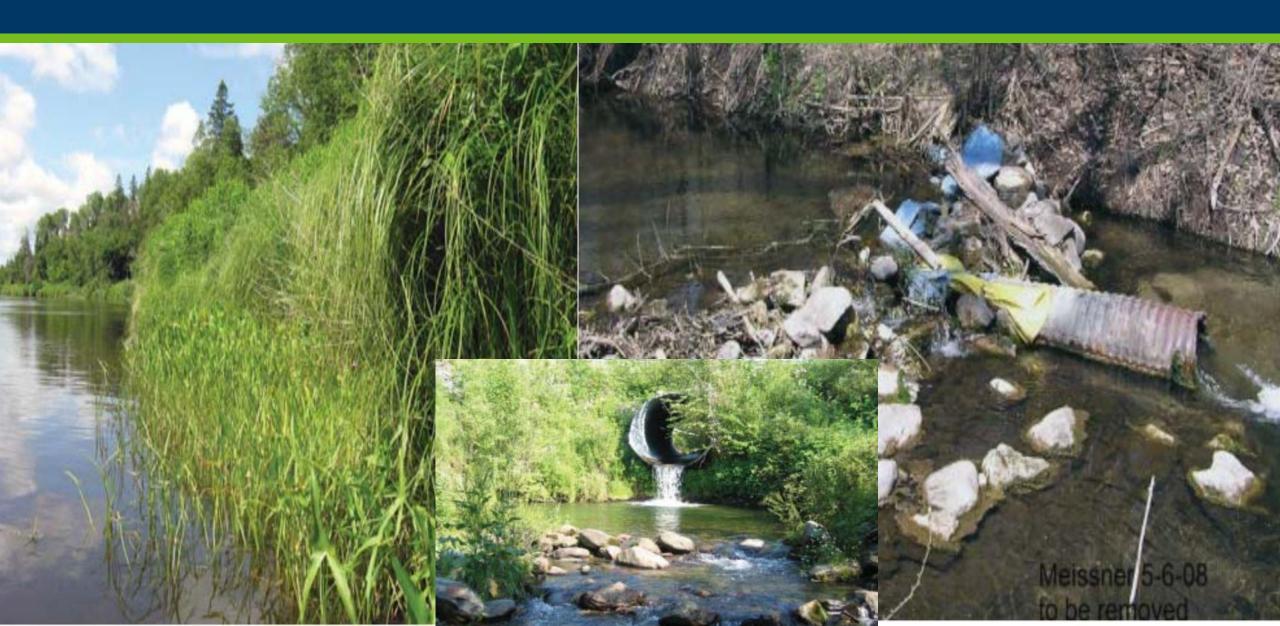
Before After



Sustainable Water Supply

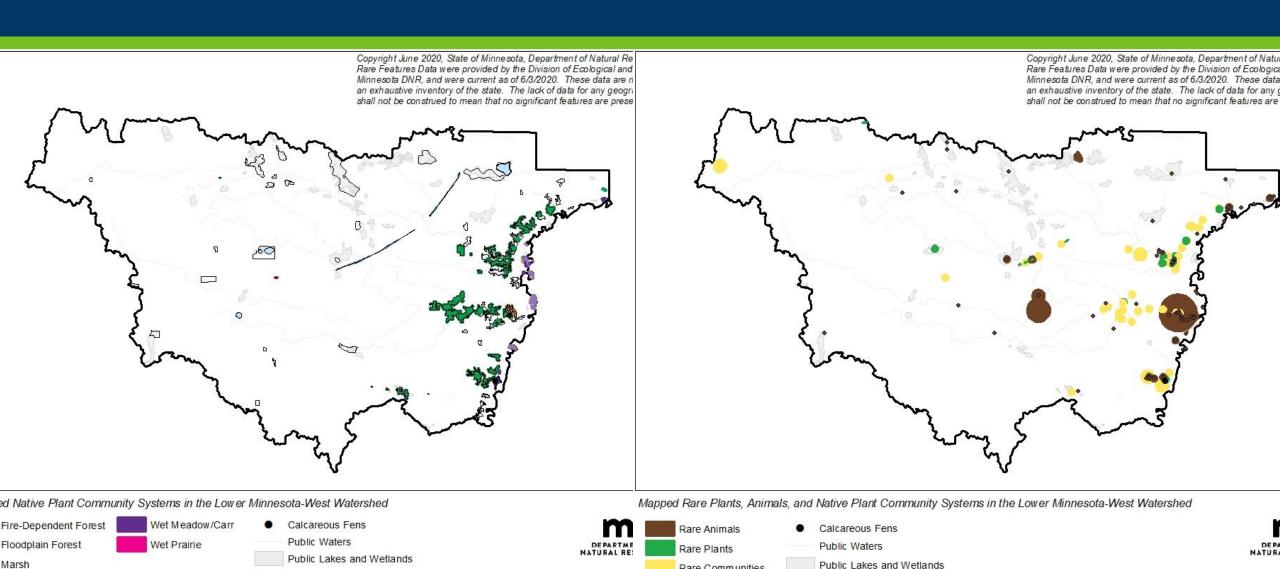
- Groundwater (and Surface Water) Supply
 - Aquifer Recharge
 - Aquifer Monitoring
 - Well Interference and C.A.M.P.

- **❖** Habitat
 - Shoreline Buffers
 - Instream Barriers



- Biodiversity
 - Protecting Rare Features
 - Preserving Native Plant Communities
 - Datasets and Shapefiles Available for download at Minnesota Geospatial Commons (www.gisdata.mn.gov)

- Protect Existing Natural Areas
 - Increase Carbon Storage
 - Maintain Ecosystem Balance
 - Climate Change Resiliency
 - Select BMPs to Protect Natural Areas



0 1.75 3.5

Sites of Biodiversity Significance

Lakes of Biological Significance

Lower Minnesota West Watershed Boundary

Mesic Hardwood Forest

Upland Prairie

Rare Communities

Lower Minnesota West Watershed Boundary

- Outdoor Recreation
 - Key to Resource Conservation
 - Providing Outdoor Recreation Opportunities
 - Land Acquisition



Thank You!

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