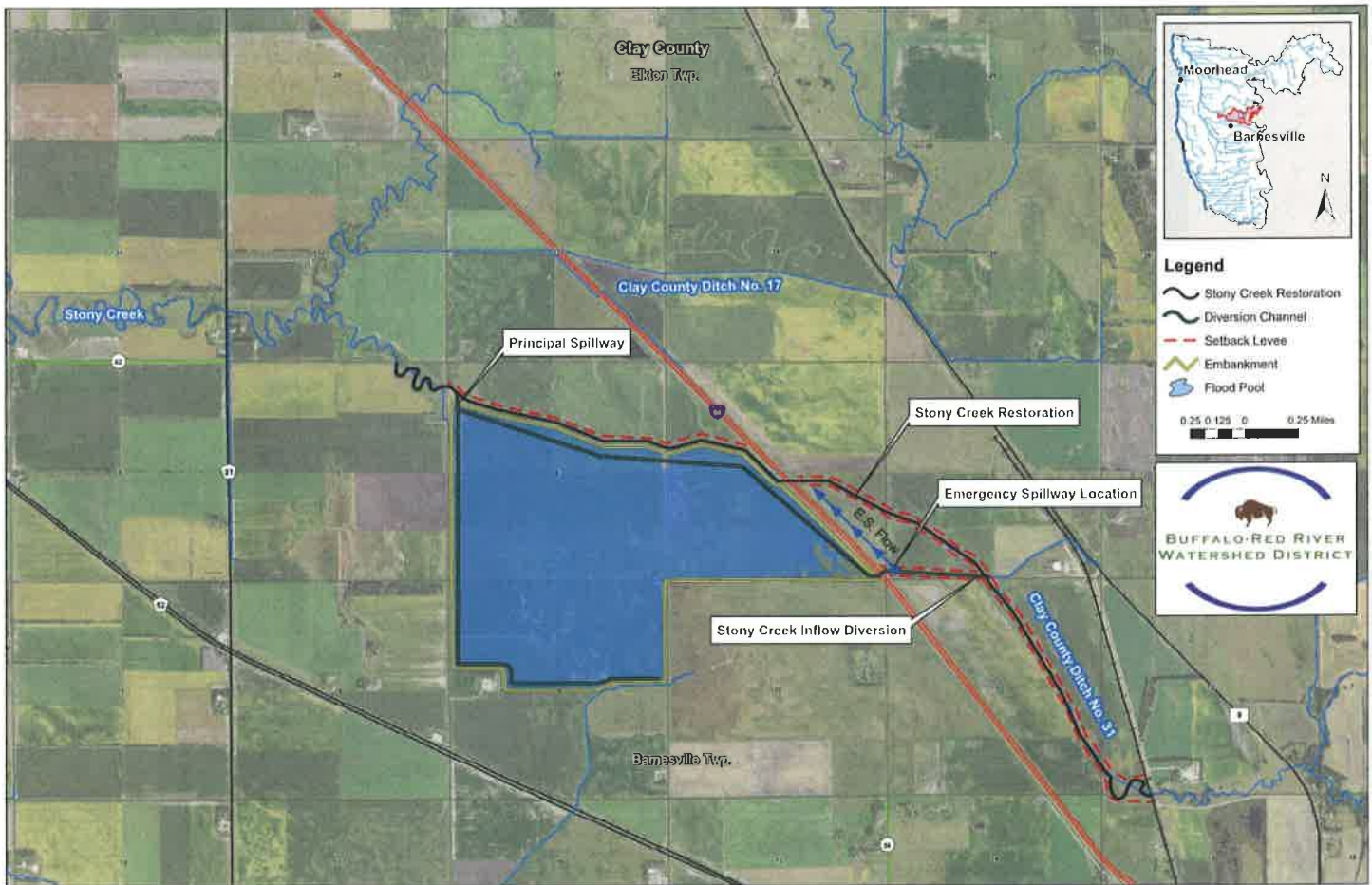


# Stony Creek Water Resource Management Project

Proposer: Buffalo-Red River Watershed District



## Description/Location:

The project area is located approximately 5 miles to the northwest of Barnesville, MN and is located on Clay County Ditch No. 31 (also known as Stony Creek). The watershed is steep and flashy and has a drainage area of 35 square miles. The project is located in the BRRWD's Central Planning Region. The project is currently in its study phase. The project consists of numerous features: 4.5 mile long river corridor restoration enclosed by setback levees, a floodwater impoundment and expansion of buffers along Stony Creek and its tributaries. The proposed 7,000 acre-feet of gated storage will provide more than 80% in reduction to the peak flow contributed by Stony Creek. Reductions to peak flows downstream on the South Branch Buffalo River are expected to be around 5%.

## Project Benefits

|                            |  |
|----------------------------|--|
| <b>Flood Control Goal</b>  | <b>80%+ reduction in the 10-yr &amp; 100-yr spring flood discharges from contributing drainage area</b>  |
| <b>Habitat Restoration</b> | <b>Reduced turbidity, enhanced fish habitat, stream restoration along Stony Creek and riparian buffer corridor.</b>  |
| <b>Erosion Reduction</b>   | <b>Reduction in riverbank erosion and bank sloughing; buffering (89 acres) along the stream restoration reach, reduction of overland flooding and reduction in turbidity and suspended solids thereby improving water quality.</b> |

**Project Cost: \$16.3 Million State DNR (\$4.85M) / LSOHC (\$2.0M) / WD (\$7.30M) / USDA (\$0.50M) / FMDA (\$1.65M)**

**Key:** WD=Watershed District; DNR=Minnesota DNR HMGF; LSOHC=Lessard-Sams Outdoor Heritage Council Outdoor Heritage Fund; USDA=Conservation Reserve Enhancement Program; FMDA=Fargo-Moorhead Diversion Authority

**Status: Currently in Design Phase, Land Acquisition in 2019, Construction Ready in 2020**

## Flood Damage Reduction/Natural Resources Enhancement Benefits

- Reduces 10-year and 100-year floods by more than 80%
  - Overland flooding eliminated
- 7,000 acre-feet of Flood Storage
- 100+ acres of Expanded and Enhanced Riparian Habitat Corridor
- 4.5 miles of Stream Restoration
  - Enhanced Fish Habitat
- Water Quality Improvements
  - Reduced Erosion and Sedimentation
  - Reduced Turbidity
- Pollinator Habitat

## Costs

|  |                       |
|--|-----------------------|
| Stream Restoration                     | \$2.2 million         |
| Interstate No. 94 Culvert Improvements | \$1.1 million         |
| Off-Channel Storage Site               | \$13.0 million        |
| <i>Total</i>                           | <i>\$16.3 million</i> |

## Funding

|   |                       |
|---|-----------------------|
| Conservation Reserve Enhancement Program (CREP) | \$0.5 million         |
| LSOHC—Outdoor Heritage Fund                     | \$2.0 million         |
| DNR Flood Hazard Mitigation Grant Program       | \$4.85 million        |
| FM Diversion Authority                          | \$1.65 million        |
| Buffalo-Red River Watershed District            | \$7.3 million         |
| <i>Total</i>                                    | <i>\$16.3 million</i> |