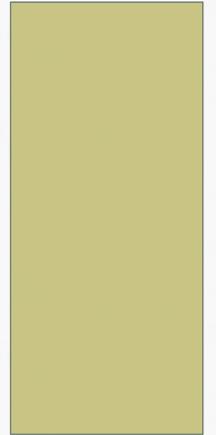


WATER MANAGEMENT ON A WATERSHED SCALE

OPTIONS AND ISSUES



CONTACT INFORMATION

- Vermillion Basin Water Development District
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- Brad Preheim, Manager

WATER DEVELOPMENT DISTRICTS



SOUTH DAKOTA WATER DEVELOPMENT DISTRICTS

WATER DEVELOPMENT DISTRICT PURPOSE

- Water Development Districts provide technical, organizational and financial assistance to prospective and existing projects that promote conservation, development and proper management of district water resources.

TYPES OF PROJECTS SUPPORTED

- Economic Development
- Irrigation
- Water Conservation
- Domestic Water Supplies
- Lake Restoration
- Recreation
- Flood Control
- Watershed Management
- Erosion Control
- Drainage
- Water Quality
- Water Supplies

TLC WATER PROJECT DISTRICT

Turner Lincoln Clay Water Project
District

1111 Railway - Suite #2

Centerville, SD 57014

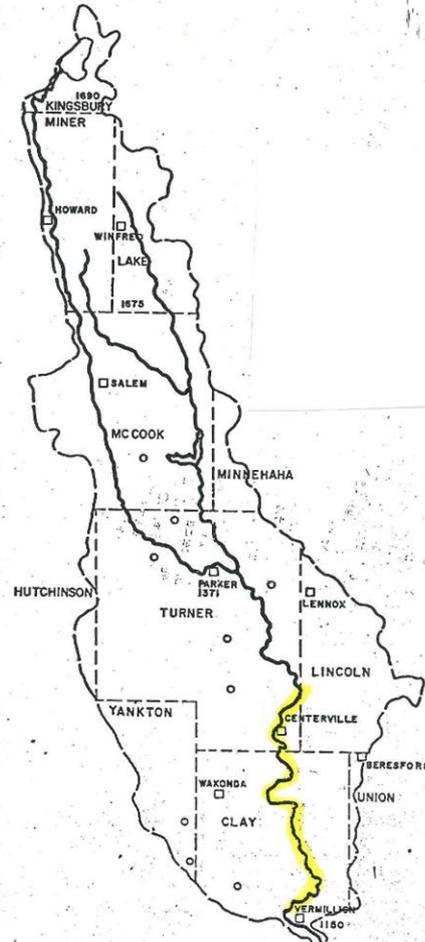
tlcwpd@hotmail.com

Brad Preheim, Manager

TLC WATER PROJECT DISTRICT PURPOSE

- The Turner Lincoln Clay Water Project District serves the floodplain of the lower Vermillion Basin. That district assesses only the landowners within the flood plain and its sole purpose is to protect that land with its limited resources by developing and funding projects to control excess water.

TLC WATER PROJECT DISTRICT BOUNDARIES



WATERSHED-SCALE WATER MANAGEMENT

- Where do we go from here ?
- It is our hope that this presentation aids the transition of the focus of the Task Force from background and information gathering into the process of developing ideas to begin to solve the problems.

WATERSHED-SCALE WATER MANAGEMENT

- What would we like to see from the Task Force ?
 - Develop a plan that works for all landowners
 - Implement that plan at a watershed level

WATERSHED BASED BOUNDARIES

VERMILLION BASIN WMD

U.S. Department of Agriculture

Natural Resources Conservation Service

Vermillion River Watershed Profile



Legend

 Vermillion River



CRITICAL NEEDS FOR ALL WMD'S

- Authority
 - Expertise
 - Financing
 - Enforcement capability
-
- Ability to work in cooperation with other entities

ISSUES WITHIN THE VBWMD

- Guidelines for drainage and ditching permits
- Guidelines for handling dike/levee repairs and bank stabilization
- Guidelines for handling river debris problems
- Guidelines for Lake Management
- Guidelines for construction/replacement of culverts/bridges/roads
- Guidelines for managing future ditch associations
- Guidelines for dealing with municipal drainage
- Programs and projects to control/regulate excess water

DRAINAGE & DITCHING PERMITS

- Rules/Laws/Ordinances
- Enforced at a watershed level
- Local decisions
 - sub basins
 - mini watersheds

LEVEE REPAIRS/BANK STABILIZATION



LEVEE REPAIR/BANK STABILIZATION

- Diking association problems
- More difficult to maintain
 - Short term maintenance
 - Long term maintenance
- Non Compliance
- Bank Stabilization

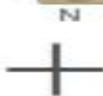
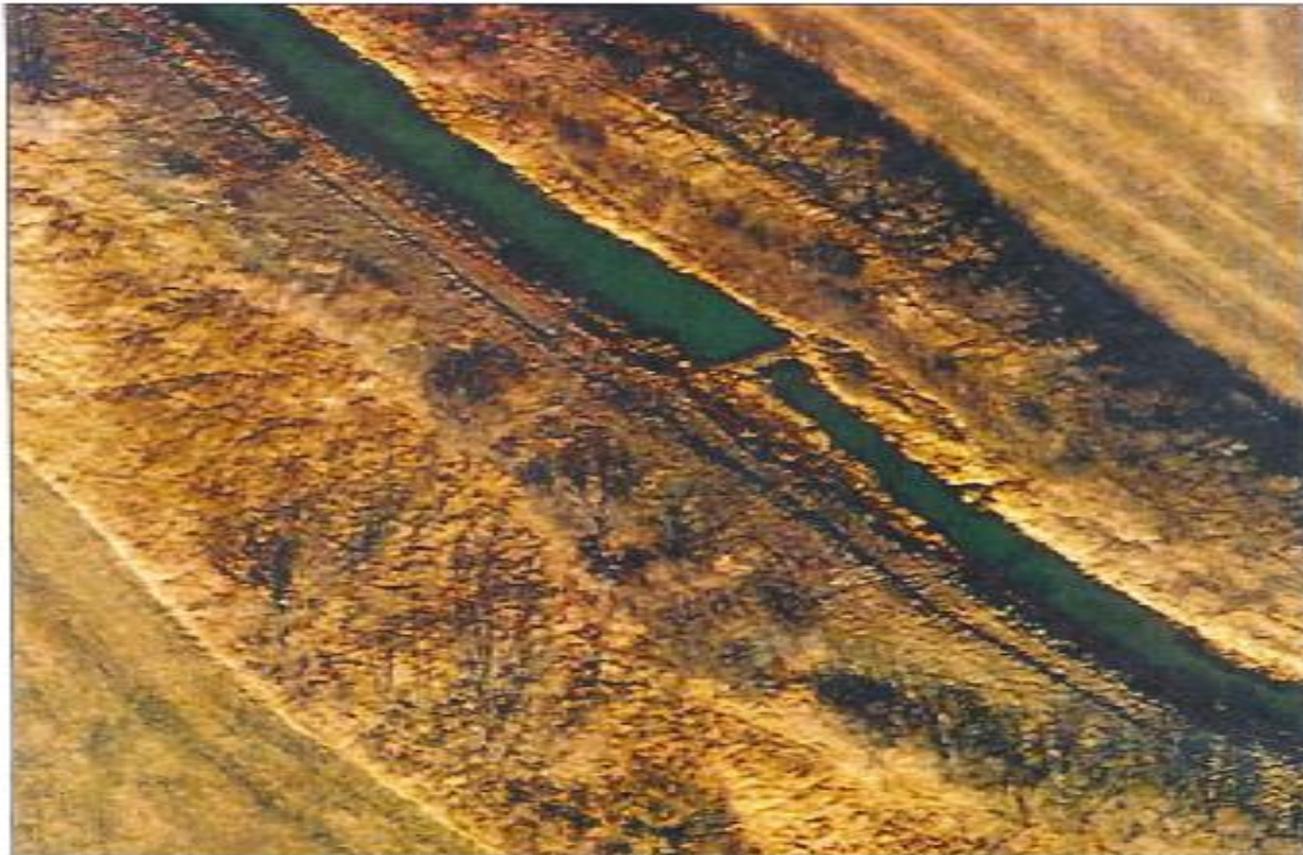
RIVER DEBRIS ISSUES



RIVER DEBRIS ISSUES

CLAY COUNTY SD

Date: 6/10/2013



Beaver Dam 16-93-52

0 37.5 75 150 Feet

The maps and data are provided "as is" without warranty or representation of accuracy, timeliness, or completeness. There are no warranties, expressed or implied, as to the appropriate use of the maps and data or the fitness for a particular purpose. The maps and associated data do not represent a survey and are compiled from official records, including plat, surveys, recorded deeds and contracts and only contain information required for government purposes. See the recorded documents.

LAKE MANAGEMENT



LAKE MANAGEMENT - VBWMD

- Lake Thompson
 - Outlet elevation
 - Lake Drainage Plan

CULVERTS, BRIDGES & ROADS

Bridge A



Bridge B

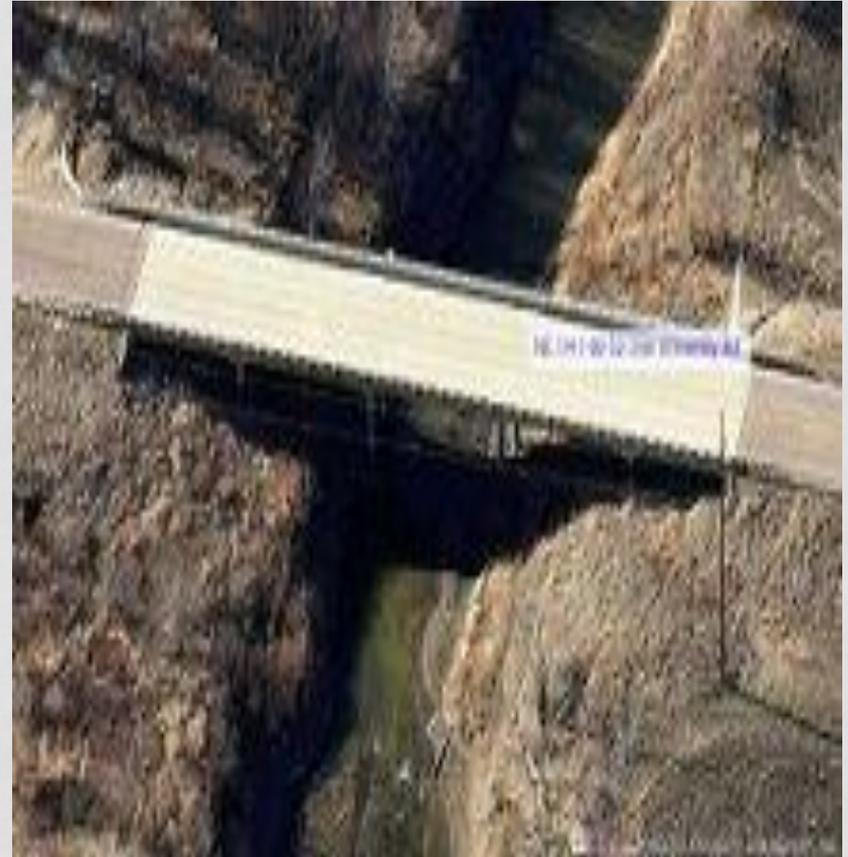


RESTRICTIVE BRIDGE

Bridge A



Bridge A



INADEQUATE BRIDGE



DITCH ASSOCIATIONS

- Similar to a Diking Association
- Problems
 - No one is in charge
 - No maintenance

MUNICIPALITIES

- Municipalities can contribute to the problems
- Need to be considered in a watershed management plan

PROGRAMS/PROJECTS TO CONTROL & REGULATE EXCESS WATER

- Diking systems
- River debris cleanout
- Small dams

SMALL DAM CONSTRUCTION



SMALL DAM CONSTRUCTION



SMALL DAM COMPLETION



IN SUMMARY

U.S. Department of Agriculture

Natural Resources Conservation Service

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Legend

 Vermillion River



QUESTIONS ?

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