



PUBLIC SCOPING MEETING LONG PINE CREEK WATERSHED PLAN-EA

18 February 2020



Agenda

- Introductions / Sign-in
- Short Presentation
 - Background/Purpose
 - Schedule
 - Community-Based Planning
 - Scoping Considerations
- Group Scoping Discussion



Introductions



Mike Murphy, General Manager Chandler Schmidt, Watershed Coordinator



Janel Kaufman, Project Manager, Environmental Charles Ikenberry, Water Quality Bob Gregalunas, Hydrology/Hydraulics

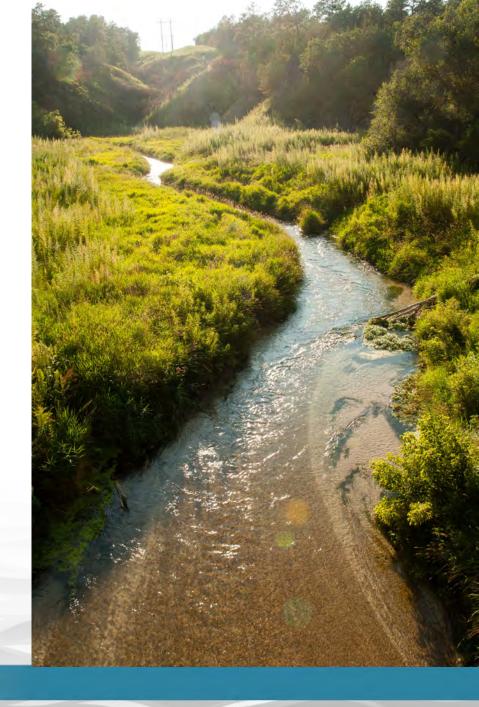


Allen Gehring, State Conservation Engineer Arlis Plummer, Hydraulics Engineer



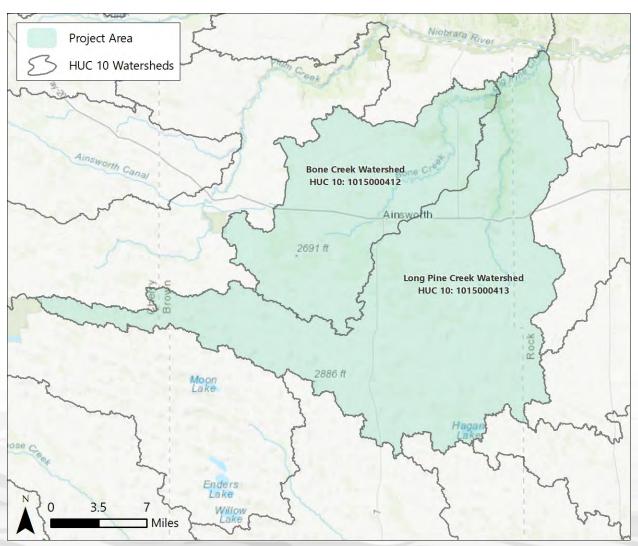
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Project Background/Purpose

PROJECT BOUNDARY



Project Background/Purpose

NRCS PROGRAM/FUNDING

Watershed and Flood Prevention Operations (WFPO)

- Provides cooperation between federal government and states to work together to prevent erosion, flooding, etc.
- Provides up to 100% funding for planning, engineering, and construction
- Funds allocated from Congress

Guidelines / Policies / Procedures

- Environmental Impact Statement vs. Environmental Assessment
- Modified benefit analysis
- Local funding



Project Background/Purpose

ELIGIBLE PROJECTS

What types of watershed concerns will this be addressing?

There are many opportunities to improve the watershed and structural and nonstructural alternatives will be considered. The following are just some of the watershed concerns that the Plan may focus on.



Fish & Wildlife Habitat Enhancements. Improvements can be directed towards providing robust habitats that supports diverse and healthy aquatic life and wildlife.

Agricultural Water Management. Improvements to irrigation infrastructure can benefit water quality and decrease stream degradation.



Water Quality Improvements. Bone and Long Pine Creek are both listed on the State's 303(d) list of impaired waters due to high *E. coli* bacteria.

Erosion and Sedimentation. Stream and upland degradation is an issue that results in increased erosion and sedimentation downstream.

Stream Restoration. Restoring streams can help improve bank stability, provide grade stabilization, and improve aquatic habitat.

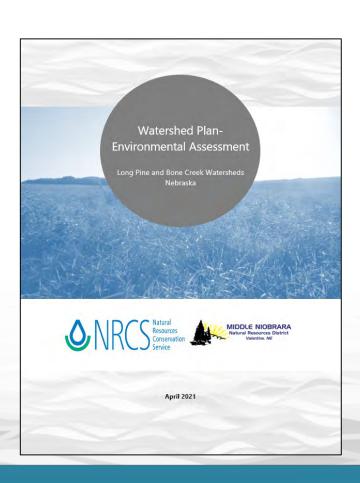


Project Planning

MEETING NRCS REQUIREMENTS

What will the Watershed Plan-EA Include?

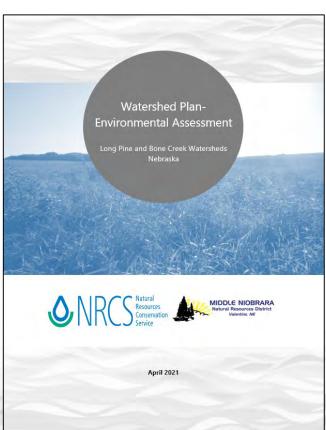
- Purpose and Need
- Project/Site Identification
- Develop Environmental Assessment to meet NEPA requirements
 - Cultural Resources
 - Wild & Scenic Rivers
 - Wetlands & Streams
 - Threatened & Endangered Species
 - Recreation
 - Water Quality
- Preliminary Design
- Economic Analysis



Project Planning

MEETING NRCS REQUIREMENTS

- Affected Environment Information from you
 - Cultural Resources Please provide any information on potential presence of cultural resources
 - Other Resources Any Concerns
 - Wild & Scenic Rivers
 - Wetlands & Streams
 - Threatened & Endangered Species
 - Water Quality
 - Recreation
 - Others



Project Planning

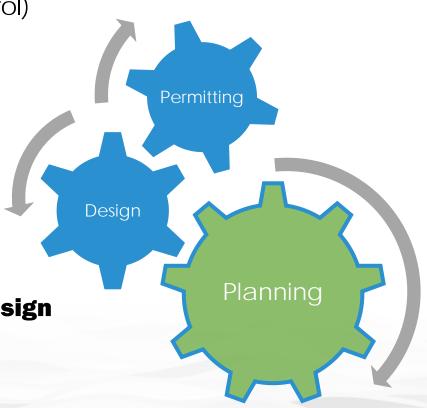
INDIVIDUAL SITE EVALUATION

Maximizing project purpose

- Grade stabilization (erosion control)
- Agricultural Water Management
- Infrastructure protection
- Water quality improvement
- Habitat enhancement
- Stream Restoration

Transition from planning to final design

- Intentional preliminary design decisions
- Planning for final design



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Project Schedule

MEETING NRCS REQUIREMENTS/SCHEDULE



¹ Field work, Report of Findings, Further Review, and NRCS Local Review, SHPO/THPO Consultation

Develop APE in Coordination with NRCS

Potential Issues That Can Impact Schedule

- -Significant Cultural Resources found at Site
- -T&E Species: Field Survey Required
- -T&E Species: Likely to Adversely Affect
- -Selected Design/Site not Least
- Environmentally Damaging
- Practicable Alternative (LEDPA)

NRCS Approval Process

Dec Jan Feb Mar Apr May

- 1 State NRCS & USACE Review
- 2 FYRA Address Comments
- 3 NRCS National Water Management Center
- FYRA/State NRCS Address Comments
- 3 Public NEPA Review

Public/Agency Involvement

- roject Kickoff Meeting
- ★ Public and Agency Scoping Meetings
- ★ W/TAC Meetings
- 🖈 Public, W/TAC, and Agency Meetings

Project Schedule

MEETING NRCS REQUIREMENTS/SCHEDULE



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Develop APE in Coordination with NPCS

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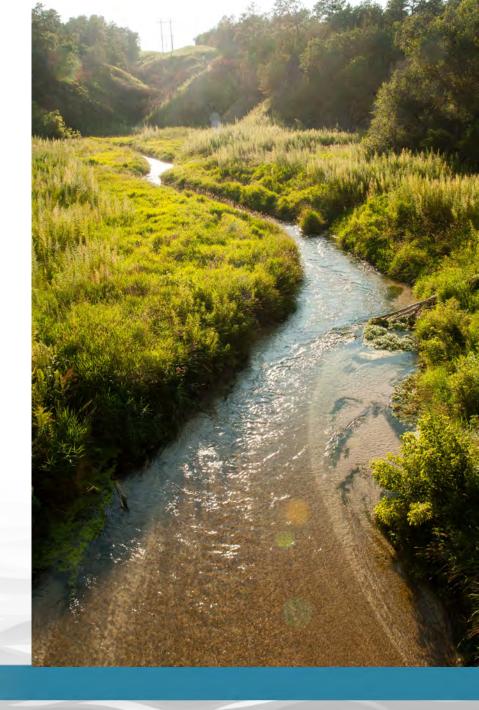
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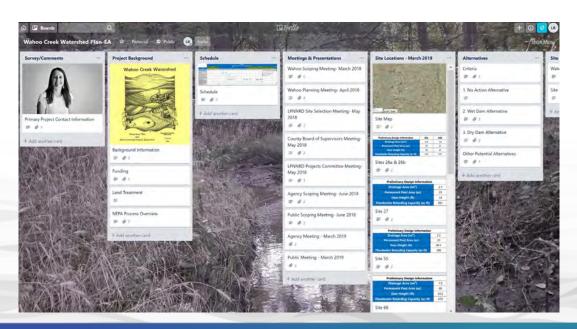
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Community-Based Planning

GAINING WATERSHED COMMUNITY ACCEPTANCE

- Your help is needed to develop the project <u>scope</u>
 - Identify key issues
 - Identify projects of interest
 - Prioritize







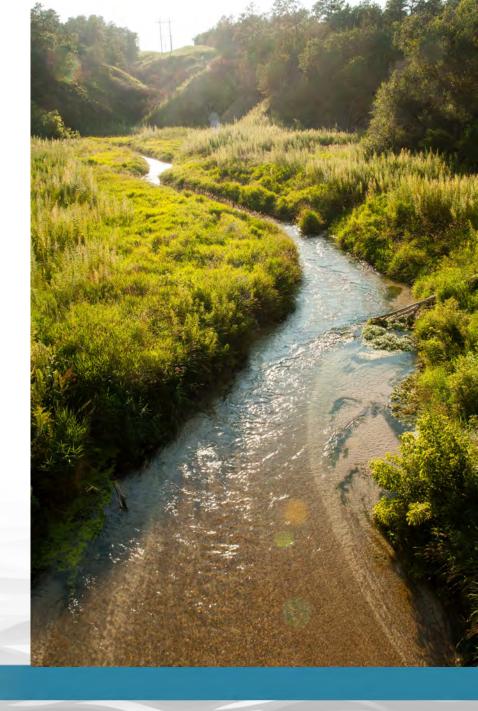
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Thinking about Scale of Alternatives

SPREAD-OUT VS. FOCUSED

- Resolution (scale) of solutions
 - Parcel level vs. local vs. regional alternatives



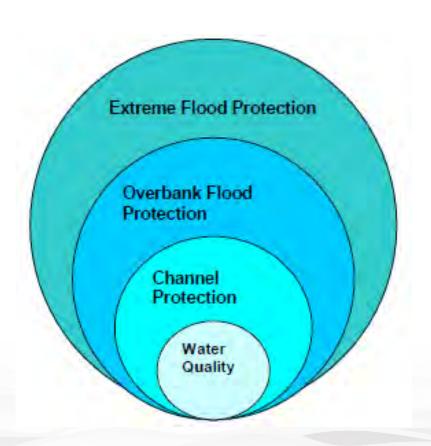


Targeting Flow to the Issue(s)

SMALL/FREQUENT VS. EXTREME/INFREQUENT

Managing Hydrology for:

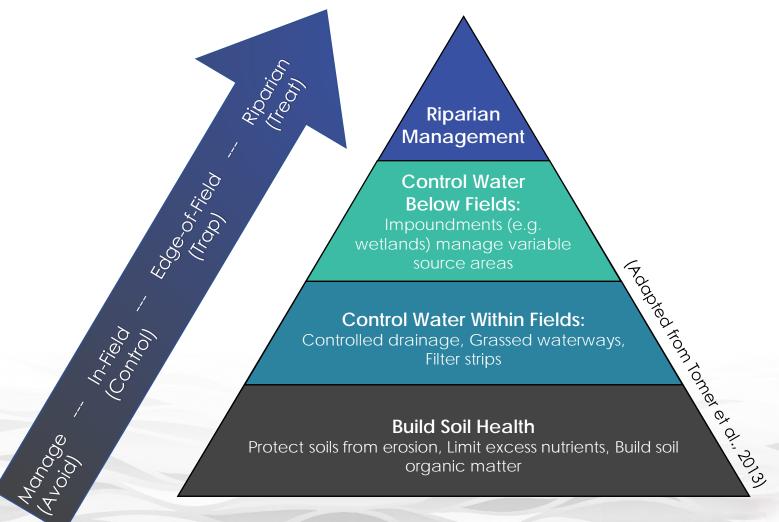
- Water Quality Volume
- Channel Protection Volume
- Overbank Protection Volume
- Flood Control Volume





Water Quality Alternatives

AG CONSERVATION PRACTICES

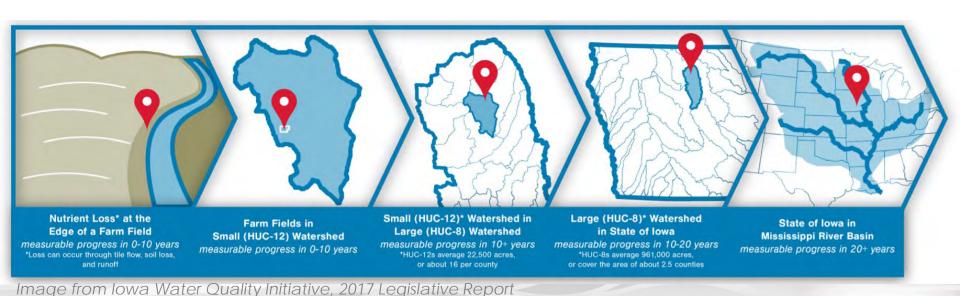




Water Quality

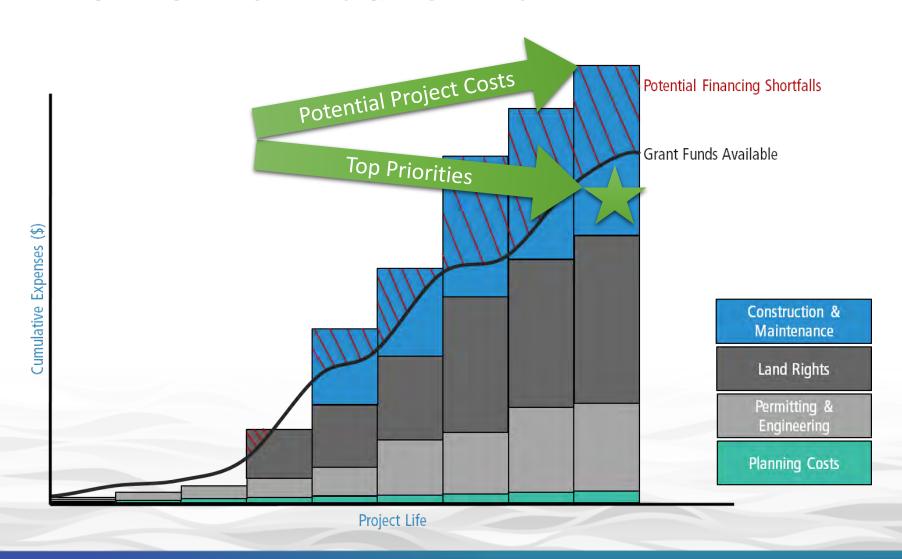
GOAL SETTING & EXPECTATIONS

- Considerations for goals and priorities
 - Funding
 - Expectations, Desired Uses
 - Spatial and Temporal Scales



Costs & Funding

ALIGNING PRIORITIES & DOLLARS



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Purpose of Public Scoping Discussion

- 1. Listen and Obtain Comments and Input from YOU
- 2. Build Awareness & Understanding
- 3. Present Alternatives Evaluation Process
- 4. Discuss Potential Issues/Concerns
- 5. Encourage Future Participation





Scoping Discussion & Questions

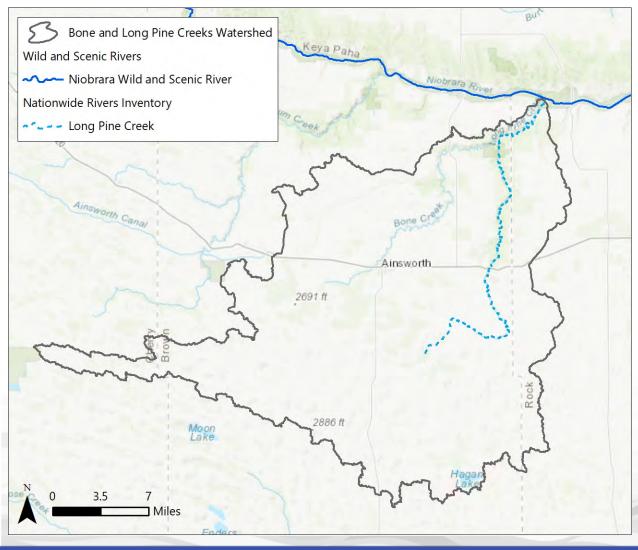




Additional Information on Affected Environment

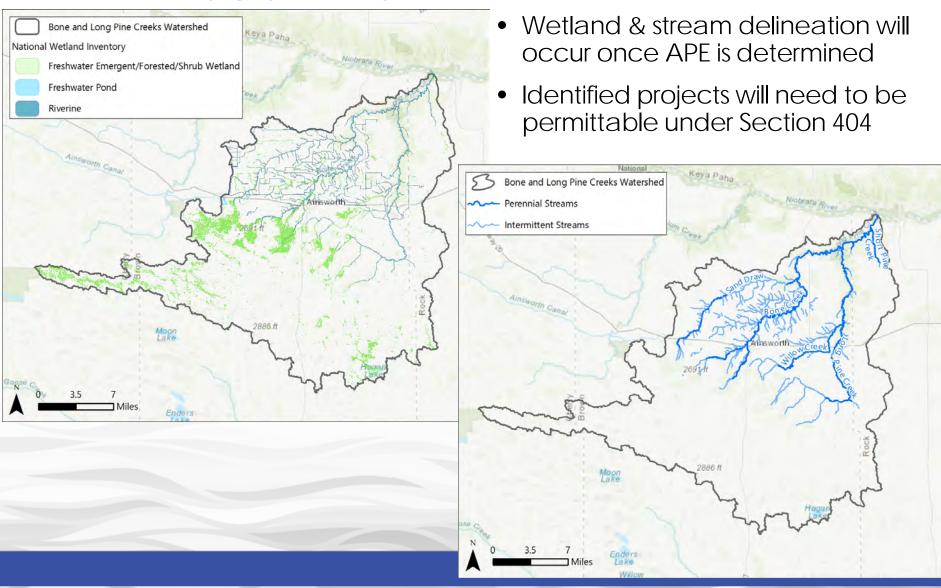


WILD & SCENIC RIVERS



- 5(d)(1) Wild & Scenic River Act provides guidance
- Must take care to avoid or mitigate adverse effects to identified rivers
- NRI Includes 42 miles of Long Pine Creek.
 - Outstanding remarkable value: Fish (important trout fishery, highest priority fishery resource)

WETLANDS & STREAMS



THREATENED & ENDANGERED SPECIES

Ranges within Bone and Long Pine Creek Watershed

Common Name	Scientific Name	Status*
Insects		
American Burying Beetle	Nicrophorus americanus	FE, SE
Fish		
Finescale Dace	Chrosomus neogaeus	ST
Northern Redbelly Dace	Chrosomus eos	ST
Birds		
Interior Least Tern	Sternula antillarum athalassos	FE, SE
Piping Plover	Charadrius melodus	FT, ST
Whooping Crane	Grus americana	FE, SE
Mammals		
Northern Long-eared Bat	Myotis septentrionalis	FT, ST
Plants		
Blowout Penstemon	Penstemon haydenii	FE, SE
Small White Lady's Slipper	Cypripedium candidum	ST
Western Prairie Fringed Orchid	Platanthera praeclara	FT, ST
*FE = Federally Endangered, FT = Federally Threatened, SE = State Endangered, ST = State Threatened		

Will need to ensure compliance with ESA Section 7

CULTURAL RESOURCES

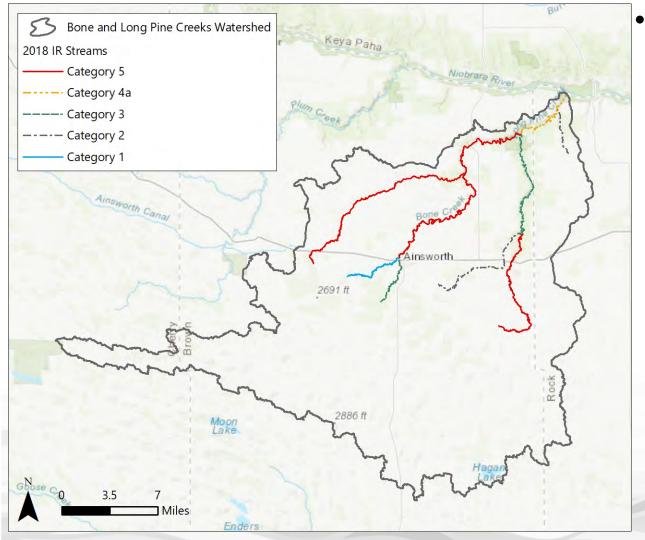
 NRCS must take necessary actions to comply with Federal laws/regulations including the National Historic Preservation Act

 Field investigations will be completed by Buried Past Consulting and reviewed by NRCS BURIED PAST

CONSULTING, LLC.

- If avoidance cannot be achieved, additional public and agency input will be sought
- Please provide any information on potential presence of cultural resources

WATER QUALITY



 Category 5 waters -Section 303(d) list subject to EPA approval

Project Background

PREVIOUS STUDIES

- LPC WQMP (3rd Draft, March 16)
- LPC Rural Clean Water Program: 10 Year Report
- MNNRD Master Plan 2012
- Cool Water Stream Management Plan NGPC
- MNNRD Groundwater Management Plan
- USGS Ainsworth Canal Study (2006-07)
- Ainsworth Unit Project
- Ground-Water Resources of the Ainsworth Unit Cherry and Brown Counties, Nebraska
- · Hydraulic and Bituminous Studies of Ainsworth Canal Dune Sand Missouri River Basin Project, Nebraska
- Merritt Dam- Technical Record of Design and Construction
- Temporary Stay on Surface Water
- 1993-94 Water Quality and Chemical Evolution of Ground Water
- Sand & Soapweed Middle Niobrara NRD
- Middle Niobrara NRD- Know your NRD
- 2017 Water Monitoring Programs Report
- USGS Long Pine Creek near Riverview
- Mechanisms of vegetation uprooting by flow in alluvial non-cohesive sediment
- Stability Thresholds for stream restoration materials
- Estimating the mechanical effects of riparian vegetation on stream bank stability using a fiber bundle model
- Simulation of Groundwater Flow, 1895-2010, and Effects of Additional Groundwater Withdrawals on Future Stream Base Flow in the Elkhorn and Loup River Basins, Central Nebraska Phase Three