Kansas Nonpoint Source Management Plan Update

Governor's Water Conference

Nov. 14, 2018

Kansas Department of Health and Environment
Division of Environment

Chapter 1 – WQ Conditions & Priority NPS Issues

- 2017 Integrated Water Quality Assessment
  - 84% of assessed stream mileage and 96% of assessed lake acreage impaired for one or more designated uses
  - Nutrients, sediment and bacteria primary NPS pollutants
  - Agricultural land uses predominant NPS source

Chapter 1 – WQ Conditions & Priority NPS Issues

- Priority NPS Issues
  - *Kansas Water Plan* Issues
    - Total Maximum Daily Loads
    - Source Water Protection
    - Surface Water Nutrient Reduction
    - Reservoir Sustainability
    - Wetland and Riparian Area Management
    - A Long-Term Vision for the future of Water Supply in Kansas
    - Harmful Algal Blooms
    - Protection of High Value Resources (SALU, ESW, ONRW, Reference Watersheds)

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Table 2.2 Organizational Responsibilities for NPS Related Program Implementation, Administration, and Facilitation

Organization	IE	FA	IA	IT	E	M	P	A
Kansas Department of Health & Environment	●	●	●	●	●	●	●	●
Kansas Department of Agriculture	●	●	●	●				
Kansas Department of Agriculture Division of Conservation	●		●	●	●		●	
Kansas Water Office	●						●	●
Kansas Forest Service	●	●	●	●				●
Kansas Department of Wildlife and Parks	●	●	●	●	●	●		●
USDA Natural Resources Conservation Service	●	●	●	●	●		●	
USDA Farm Services Agency	●	●			●			
US Fish and Wildlife Service	●	●	●		●	●		●
US Army Corps of Engineers	●		●	●		●	●	●
US Environmental Protection Agency	●	●	●	●	●		●	
US Geological Survey	●					●		●
K-State Research & Extension Offices	●		●	●		●		●
Kansas Biological Survey & Geological Survey	●		●	●		●		●
County Conservation Districts	●	●	●	●			●	
Local Environmental Protection Programs	●		●	●	●		●	●
WRAPS Stakeholder Leadership Teams*	●	●		●			●	●
WRAPS Service Provider and Sponsor Organizations	●	●	●	●		●		●

Chapter 2: Institutional and Partnership Framework

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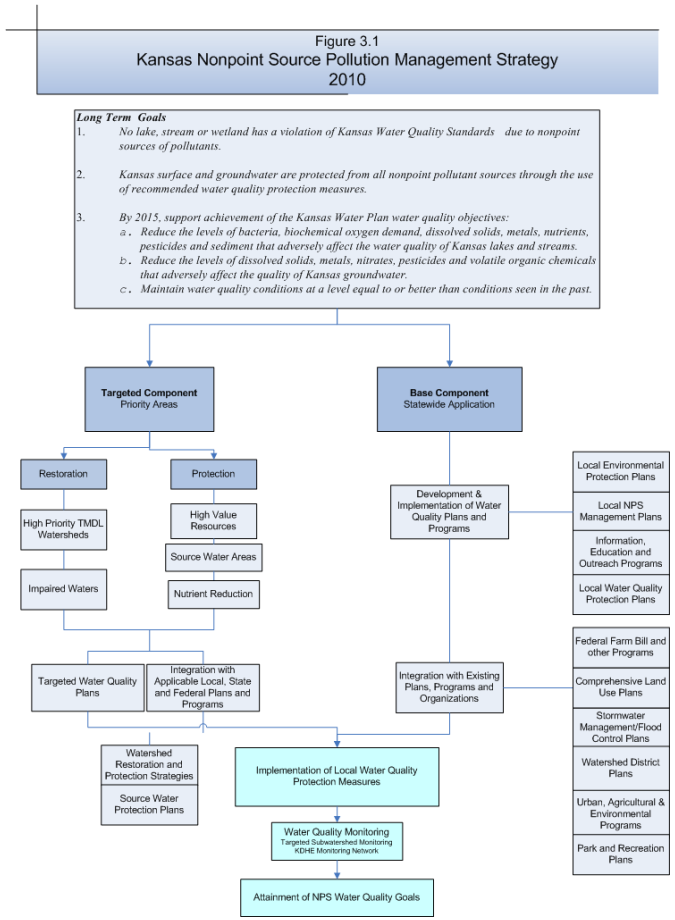

Chapter 3 – NPS Management Strategy

- Long Term Goals
- Targeted Component
- Base Component
- Strategic Plan

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Strategic Plan Goal:

Enhance collaboration among local, state and federal agencies and private sector organizations addressing NPS pollution.

1. *Improve program communication and coordination.*
2. *Improve information sharing among existing programs to track the status of NPS program implementation.*
3. *Expand funding opportunities for NPS projects through cooperation with other programs and agencies.*

Changes/Updates

- Regional Advisory Committees in place of past Basin Advisory Committees.
- Added partnership building in industry, business, and other agricultural economic organizations
- Added implementation of Drinking Water Protection Program through Safe Drinking Water SRF.
- Added low interest loans through Local Conservation Lending Program.
- Added Regional Conservation Partnership Program participation.

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Strategic Plan Goal:

Reduce pollutant loads in high priority TMDL watersheds through the implementation of BMPs and increase the number of water bodies meeting surface water quality standards

1. *Enhance targeting of state and federal programs that provide technical and financial assistance for the implementation of BMPs to high priority TMDL watersheds.*

2. *Work with WRAPS SLTs to ensure that existing WRAPS Projects address high priority TMDLs.*

Changes/Updates

- Added support on Regional Conservation Partnership Program water quality efforts in targeted watersheds.
- Added aerial assessments of high priority watersheds

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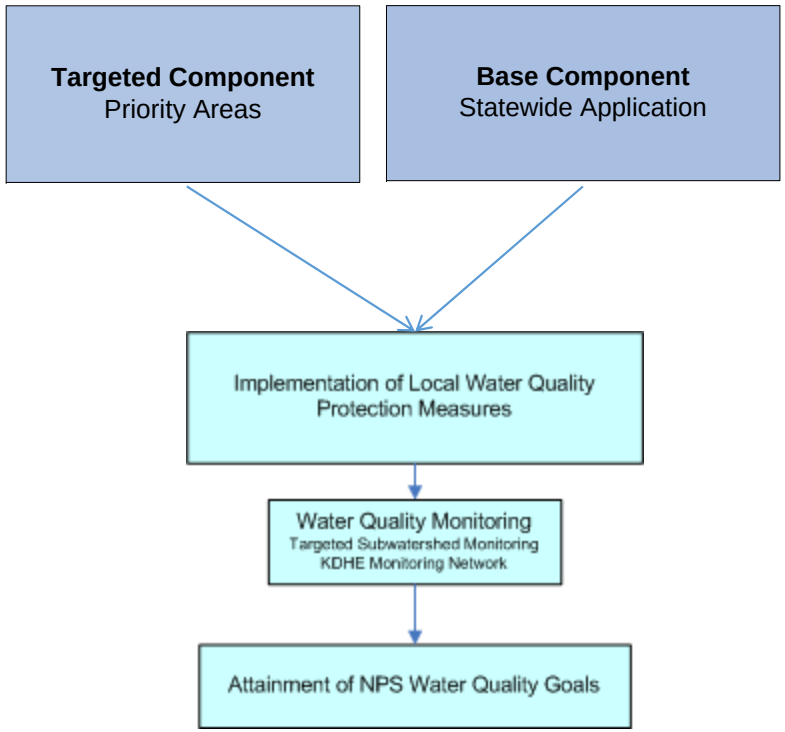
- Track progress
  - BMP implementation
  - Water quality data
- Monitor progress at multiple scales
  - Statewide
  - River basin and HUC 8s
  - Priority water bodies
  - Targeted WRAPS subwatersheds
- Removal of impaired waters from 303(d) List & protection of high quality waters

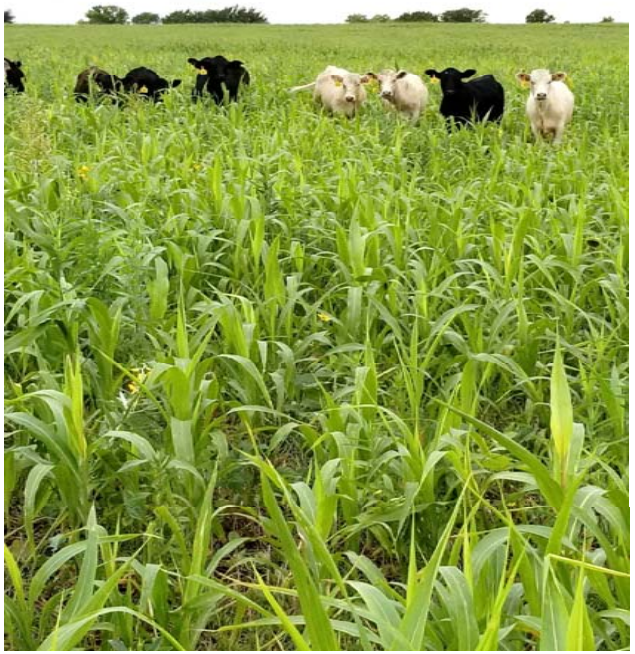


Chapters 4

- 2019-2025 Goals, Objectives & Strategies
  - Long Term Goals
  - Base Component
  - Targeted Component

Chapter 5

- Program Indicators 2019-2025
  - Annual Report of Progress to EPA



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Program Indicators

Amount of local, state, and federal BMP funding spent in WRAPS priority subwatersheds identified in 9 element watershed plans

Source	FY 2011-2015 Average	FY 2016	Percent Change
KS Dept. Ag. Division of Conservation	$963,345	$780,854	
National Resource Conservation Service	$2,983,505	$3,016,234	
EPA 319/WRAPS	$997,744	$1,306,456	
Other Federal/State Funds	$342,706	$670,775	
Total	$5,443,433	$5,774,319	6.08%

Amount of estimated pollutant load reductions achieved for sediment, phosphorus and nitrogen from local, state, or federal funded BMPs in high priority TMDL and WRAPS watersheds, including priority subwatersheds

- The estimated annual estimated pollutant load reductions resulting from the implementation of NPS best management practices during Federal Fiscal Year 2010 (October 1, 2016 – September 30, 2017) as reported to KDHE were as follows:
  408,080 pounds of nitrogen
  214,393 pounds of phosphorus
  150,689 tons of sediment

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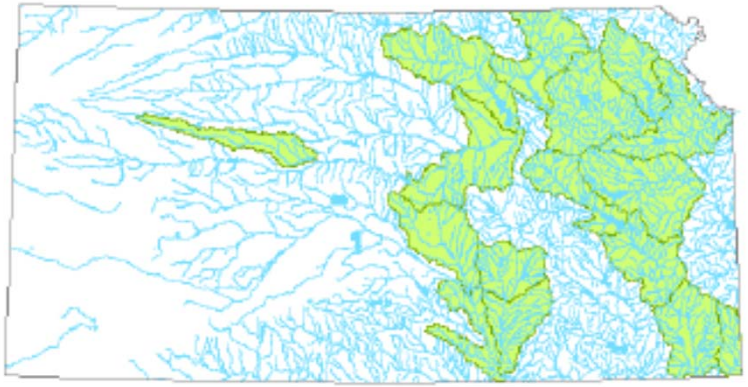
- Number of TMDLs developed or revised in support of WRAPS 9 element plans

- Number of priority subwatersheds identified in 9 element plans showing water quality improvement based on water quality milestones identified in the watershed plans

- Number of impaired waters removed from the impaired waters list due to WRAPS/NPS implementation
- Increased reductions in nutrient loads in Sweet 16 watersheds

  - Big Creek
  - Delaware
  - Little Arkansas
  - Lower Big Blue
  - Lower Kansas
  - Lower Republican
  - Lower Smoky Hill
  - Lower Walnut
  - Middle Arkansas – Slate
  - Middle Kansas
  - Middle Neosho
  - Neosho Headwaters
  - Spring
  - Upper Marais des Cygnes
  - Upper Neosho
  - Upper Walnut



Priority watersheds for nutrient TMDLs

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Short, Mid and Long-Term Milestones
2019-2023 (complete by June 30, 2023)
• Establish baseline and incremental conditions for program indicators • Complete first update of all existing watershed plans • Complete baseline sampling for second set of WRAPS priority subwatersheds • Remove all 2002 NPS related impairments from five streams or lakes • Assess interim and 2024 progress milestones • Review and update plan as needed
2024-2030 (complete by June 30, 2031)
• Show significant progress towards completion of implementation activities for all 9 element watershed plans • Demonstrate water quality improvement in 50% or more of the monitored priority WRAPS subwatersheds resulting from plan implementation activities • Show significant reduction in pollutant loadings in 50% or more of the high priority TMDL watersheds identified in the 2009 Kansas Water Plan • Show annual increases in funding and quantities of BMPs implemented in high priority TMDL watersheds and WRAPS priority subwatersheds • Remove one water body per year from the 2010 303(d) list
2030-2050 (complete by June 30, 2051)
• Complete BMP implementation for 75% of the 9 element plans approved during 2010-2015 timeframe • Remove 50% or more of high priority TMDLs from 2010 303(d) list

Thank You/Questions

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