

# MEMO



DATE: September 21, 2011  
TO: Smoky Hill-Saline BAC and Agency Advisors  
FROM: Diane Coe, Kansas Water Office  
RE: October 5, 2011 meeting

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The next meeting for the Smoky Hill-Saline Basin Advisory Committee (BAC) is scheduled for **9:30 a.m., Wednesday, October 5, 2011 at the Hays Convention and Visitors Bureau, Hays Kansas.**

The meeting will cover the actions and activities from the Kansas Water Authority (KWA) meeting, including approval of BAC nominations. The committee will need to make a recommendation on the vacancies and leadership of the committee, which can include re-nominating the existing chair.

We plan to have a presentation on WRAPS by the Stacie Minson. Other topics include the State Water Plan budget for FY13 and an update on the Governor's Summit on the Ogallala, and it's follow up by the Ogallala Aquifer Advisory Committee.

If you cannot attend, or have any questions or concerns regarding the meeting please contact, me at [diane.coe@kwo.ks.gov](mailto:diane.coe@kwo.ks.gov); or toll-free at (888) KAN-WATE(R).

Enclosures: Agenda  
Press Release  
June BAC Meeting Notes  
Memo on State Water Plan budget  
BAC applications for consideration\* (*BAC members only*)

**Smoky Hill-Saline Basin Advisory Committee**  
**9:30 am, Wednesday, October 5, 2011**  
**Hays Convention and Visitors Bureau**  
**2700 Vine, Hays KS**

- 1. Welcome and Introductions**
- 2. BAC Approval of Agenda**
- 3. Agency Reports \***
- 4. Public Comments\*\***
- 5. BAC Business**
  - a. Approval of June 2011 Meeting Notes
  - b. Kansas Water Authority Update
    - i. Chair report
    - ii. Aquatic Nuisances Species Policy
  - c. Budget
  - d. Membership - vacancies and chairmanship
  - e. BAC member reports
- 6. WRAPS – Stacie Minson**
- 7. Basin Activities/Updates**
  - a. Basin Priority Issues
  - b. Other Basin issues related activities
- 8. Other Business**
  - a. Messages to the Kansas Water Authority
  - b. Kansas Water Authority meeting: November 3-4, Lawrence
  - c. Future BAC Meeting- March 2012
- 9. Adjourn**

Note underlined items are action items for BAC.

\*Oral Agency Reports are limited to 5 minutes, written reports are welcome.

\*\*Public Comments are limited to 2 minutes per speaker on water resource issues and concerns. Other comments should be addressed to the Director of KWO.

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Tracy Streeter, Director

Sam Brownback, Governor

FOR IMMEDIATE RELEASE:  
September 22, 2011

Contact: Katie Patterson-Ingels, 785-296-0877  
[katie.ingels@kwo.ks.gov](mailto:katie.ingels@kwo.ks.gov)  
[www.kwo.org](http://www.kwo.org)

### **Smoky Hill Saline Basin Advisory Committee to Hold Meeting in Hays**

The Kansas Water Office's (KWO) Smoky Hill Saline Basin Advisory Committee (BAC) will hold a meeting to discuss current water issues affecting the basin area as well as the state.

The meeting will be held at 9:30 a.m., Wednesday, October 5, at the Hays Convention and Visitors Bureau, 2700 Vine Street in Hays. An overview for the FY 2013 State Water Plan budget as well input on its development will be discussed.

The agenda and meeting materials are available at: [www.kwo.org](http://www.kwo.org) or you may request copies by calling (785) 296-3185 or toll-free at (888) KAN-WATER (526-9283).

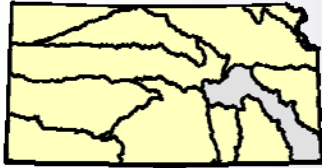
If accommodations are needed for a person with disabilities, please notify the Kansas Water Office at 901 S. Kansas Ave., Topeka, KS 66612-1249 or call (785) 296-3185 at least two days prior to the meeting.

**Note to Editor:** The Americans with Disabilities Act, (42 U.S.C. 12101), requires the Kansas Water Office to print the reasonable accommodations messages.

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*As the state's water office, KWO conducts water planning, policy coordination and water marketing as well as facilitates public input throughout the state.*

*The agency prepares the KANSAS WATER PLAN, a plan for water resources development, management and conservation. KWO also reviews all water laws and makes recommendations to the Governor and Legislature for needed legislation.*



# Smoky Hill-Saline Basin Advisory Committee

## Meeting Notes

Smoky Hill-Saline Basin Advisory Committee  
9:30 a.m., Wednesday, June 8, 2011  
Hays Convention and Visitors Bureau  
Hays, KS

**DRAFT**

**Members in Attendance:** David Bailey (chair), Bill Scott, Martha Tasker (vice chair), Gina Bell, Harold Frasier and Chris Meyer

**Members Absent:** Karl Esping, Eric Moden and Wallace Weber

**Others in Attendance:** John Gough (City of Abilene), Bruce Boyer (KCC), Brian Meier (B&MCD) and Diane Coe (KWO)

**Welcome and Introductions:** Chair David Bailey welcomed those in attendance and self introductions were made by all present.

**Approval of Agenda:** The agenda was approved as presented.

**Agency Reports:** KCC – Bruce Boyer reported that there is a lot of Oil and Gas activity, most drilling paying more than KCC pays for abandoned well plugging from the fee fund. As a result there is little work on plugging right now.

**Public Comments:** Brian Meier commented that oil and gas drilling can affect water supplies. The lower Arkansas BAC (he is a member) has expressed concern about protecting water supplies from various drilling activities. Further discussion occurred on the impacts of horizontal drilling and its risks to water quality, fracking and salt water disposal. KCC continues to review rules and regulations and update them with industry input. Protection of water supplies is included.

Bruce also responded to questions related to water used in these drilling activities. All must obtain legal right to water. This is usually obtained as a water right from DWR or contracted from an existing water right from a farmer.

The BAC is interested in a brief presentation on oil and gas activities related to water. Bruce is willing to provide something at a future meeting.

### **BAC Business:**

**Approval of March Meeting Notes:** Gina Bell made the motion to approve the March 2011 meeting notes as presented. Martha Tasker seconded; the motion was carried.

**KWA Update:** Diane reported that a new KWA chair has been confirmed, Gary Harshberger of Dodge City. Diane also noted the former KWA Chair, Steve Irsik was very grateful for BAC members' time and dedication, as reflected in the letter sent to all BAC members. The KWA report also included Diane Coe and David Bailey reporting on

### **MEMBERS:**

**DAVID BAILEY**  
*Chairperson*  
Other Public Water  
Supplier  
Ellsworth, KS

**MARTHA TASKER**  
*Vice-chairperson*  
Municipal Public Water  
Supply  
Salina, KS

**WALLACE WEBER**  
Conservation/  
Environment  
Dorrance, KS

**BILL SCOTT**  
Recreation  
Ransom, KS

**ERIC MODEN**  
At-Large Central  
Wakeeney, KS

**GINA BELL**  
At-Large Public East  
Abilene, KS

**HAROLD FRASIER**  
At-Large West  
Sharon Springs, KS

**JOE OBHOLZ**  
Industry/ Commerce  
Hays, KS

**KARL ESPING**  
Irrigation  
Lindsborg, KS

**Chris Meyer**  
Agriculture  
Sylvan Grove, KS

For questions please  
contact: Diane Coe  
Basin Planner  
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the May activities of the KWA and Chairs. Information on a number of these has been provided in memos sent to BAC members this past week.

An Aquatic Nuisance Species (ANS) Management Policy has been drafted for incorporation into the *Kansas Water Plan*; a working draft was released for public comment. The statewide Policy defines the problems and impacts of ANS as well as outlines recommendations and implementation strategies to manage ANS in the State of Kansas. The implementation strategies outlined in the Policy include: Education, Funding, Research, Coordination, Legislation and Administrative Changes. Note Zebra Mussels in Wilson. Also Asian carp and other invasive fish (white perch, rudd, rusty crayfish, round goby) and New Zealand mud snails and plants such as Eurasian watermilfoil, Hydrilla and Salt Cedar. The policy addresses meeting Water Plan Objectives to increase recreational opportunities and provide PWS. The policy includes funding, research, coordination and legislative/administrative changes.

The BAC discussed zebra mussels occurrence, transport and control. The consensus was this is an important issue but the committee took no action.

In November 2010, the Kansas Water Authority (KWA) directed the Kansas Water Office to convene an advisory group comprised of state agencies and other stakeholders to evaluate options and develop a plan for the protection of future reservoir sites, the Reservoir Siting Initiative. The group has met once and will meet June 15 to hear presentations summarizing potential criteria that may be used in the evaluation of suitable future sites. They will provide input into the process, not selecting sites.

Stream Mitigation review of state and federal evaluation process of projects that require a 404 permit for USACOE is underway. Discussion included the need for agencies and various programs to be coordinated. One perception noted was the need for local rules to get compliance from NRCS, since they are often exempt.

EPA is accepting comments on the Guidance for Waters of the United States. This provides clarification of waters of US and other related Clean Water Act issues. EPA is taking comments until July 1 (EPA). More information is available using the link in the May 23 memo from Susan Metzger. There is also a presentation on the KWO home page.

The other major *Water Plan* activity is the Ogallala Policy Initiative which includes the items mentioned in the memo from Susan Stover.

- 1) Management area goals and programs to reduce water use has moved forward in GMD 4, stakeholders in high priority area #6, located in Sheridan County, recommended actions to conserve water through both voluntary, incentive based programs and mandatory restrictions, seeking conservation with the least negative economic impact. Their program differs from the traditional IGUCA rules and is still being discussed with DWR.
- 2) The *ad hoc* committee to study the issue of water right abandonment. KWA members and key stakeholders (then provide advice to Gov/Legislature on changes in 2012 session).
- 3) Risk Management agency crop insurance modification efforts to provided for limited irrigation insurance (map is of Kansas proposed counties for the program. This may not be available until 2013, depending on what is still needed for program approval at the federal level.
- 4) Ogallala aquifer summit will be a part of this effort and is tentatively set for July 21, 2011 in Colby. The goal of the summit will be to identify ways Kansas can conserve the aquifer while growing the economy. The Summit is open to public, but preregistration is required.

Legislation and Budget for 2012 were reviewed by Diane. Details are in the memos from Earl Lewis and Dawn Palmberg and the State Water Plan Budget. Legislation of interest includes the passage of SB 122 which provides KWO authority to grant easements on state lands along the Arkansas, Kansas and Missouri rivers for

activities such as stream stabilization projects and SB 124 which provides for the access to storage in Kanopolis by additional downstream users currently limited to M&I.

The finalized Budget is without a transfer from state general funds to water plan, so funds are limited and programs adjusted accordingly. Diane noted that the LEPP program is not funded through water plan in 2012 but from another source. Local programs are expected to arrange for future funding.

#### BAC Member Reports:

Agriculture – Chris Meyer reported that there has been significant rainfall in some areas, enough to result in local flooding, relieving drought in some areas.

At Large – West – Harold Frasier noted that the country needs to be “We not me”, all working together to meet needs and goals.

Recreation – Bill Scott reported that the situation for recreation is not good. It has been dry since July 2010 west and south west of Hays.

Municipal PWS- Martha Tasker reported that the City of Salina has been monitoring Smoky Hill River flows, but did not call for water watch as the rains came in time. Kanopolis is in good shape with some water being releases. The US Army Corps does a good job keeping the city informed of releases.

At-Large East - Gina Bell reported that in Dickenson county the river is full, with some flooding damage expected. It was added that the City of Abilene is monitoring the Sand Spring aquifer levels and have seen the situation ease over the past 5 weeks, although water rights and water location do not match up well.

Other Public Water Supply – David Bailey reported that Kanopolis is up. Post Rock had been selling a lot of stock water until the nice rains.

Membership – Diane noted that there are three applications for the committee, all incumbents.

Martha Tasker made the motion to recommend/nominate the three members for reappointment to their current positions. The motion was seconded by Chris Meyer.

Discussion occurred as which category Eric Moden applied for would be easiest to fill with another.

The motion carried unanimously.

David Bailey for Other Public Water Supply

Eric Moden for At Large Central

Bill Scott for Recreation

There were no applications for Irrigation, Fish and Wildlife, or At large west.

**Basin Activities/Updates-** Diane provided the status of the public water supply issue, stating that work continues to meet the regional water supply needs, through the Wilson Reallocation Study. The work so far by the Corps will be wrapped up with a report by the end of September, to be picked up when funds available (when federal budget allows). David Bailey added that the Cities of Hays and Russell are willing to fund the work but the Corps cannot accept the funds.

Also Corps held public meeting on the dam safety risk in early April. As a DSAC III, there are some concerns at Wilson.(seepage, settling of the right abutment and piping) these are presently unconfirmed issues that will be investigated in the future. This could affect the ability to raise the pool.

Other Updates- Information provided to Diane indicates that Dickinson County intends to submit a full proposal for the next round of Bureau of Reclamation water supply planning grants. They did not make a final submittal in this last round, needing more time to develop the project proposal.

**Message(s) to the KWA:** There were none.

**Other Business:** Preference of BAC is early October for the fall meeting but Diane is to pick a date that works, preferably a Wednesday.

Motion to adjourn the meeting was made by Bill Scott, seconded by Martha Tasker. Motion carried.

DRAFT

# MEMO



DATE: August 23, 2011  
TO: Basin Advisory Committee Members and Advisors  
FROM: Earl Lewis  
RE: FY 2013 State Water Plan Fund Budget Recommendations

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At their meeting on August 12<sup>th</sup>, 2011, the Kansas Water Authority (KWA) approved budget recommendations for the Kansas Water Plan Fund in 3 distinct pieces – A Water Plan Fund “Base Budget”, the State General Fund demand transfer, and the Expanded Lottery and Gaming Fund (ELARF). Each of these is described in more detail and a handout for each component is attached.

The committees will be provided an overview at your meeting. Any input you have will be shared with the KWA at their November meeting as they discuss their report to the Governor and the FY 2012 Legislature on recommendations to implement the Kansas Water Plan.

## **State Water Plan Fund “Base Budget”**

The KWA approved recommendations for \$13.3 million of water plan dollars. This is based on the revenue estimate with NO state general fund demand transfer. On the attached table, you see the listing of agencies’ programs that are funded with the state water plan funds. One significant addition in FY 2013 is funding for Aquatic Nuisance Species in the Kansas Department of Wildlife, Parks and Tourism’s budget. The KWA approved the addition of the policy issue to the Kansas Water Plan.

You will note 3 highlighted program lines. The funding for these programs will be reviewed again at the November KWA meeting.

Assessment and Evaluation: This line is increased by \$40,000 for the purpose of initiating a real time notification system for taste and odor for drinking water utilities using the Kansas River as a source of supply. The KWA requested that the funding be contingent on the utilities participating in funding. The KWA also requested that the price of the study be negotiated to reduce the overall cost.

Weather Stations: This line is shown zeroed out. The KWA requested that the KWO work with K-State and stakeholders who use the stations to determine the accuracy and usage of the stations.

Weather Modification: After extensive discussion, the KWA identified \$90,000 for weather modification. Potentially eliminating water plan funding was discussed due to the eroding support on the part of the counties in the target area. Support on the part of the counties and the GMD will be reviewed.

## **State General Fund Demand Transfer**

The second piece of the FY 2013 SWP fund budget is dependent on the reinstatement of the statutory State General Fund demand transfer. The KWA has supported the development of a new program with the KDA-DOC focused on implementation of nutrient and sediment reduction projects. This voluntary program would be administered through the conservation districts to implement projects that have been locally identified to address nutrient and sediment projects through watershed restoration and protection or TMDL planning efforts.

## **Proposal for FY 2013 ELARF Water Projects**

The third piece of the KWA recommendations on the FY 2013 budget is the identification of projects that would utilize an allocation of 10% of the ELARF funds. The estimate for FY 2013 is \$8.5 million. The projects are described on the attached sheet.

**State Water Plan Fund: FY2012 - FY2013**

<b>Agency/Program</b>	<b>FY 2012 Legislative Approved</b>	<b>FY 2013 Proposal w/o ANS</b>	<b>FY 2013 Proposal with ANS</b>	<b>FY 2013 KWA Budget Committee changes</b>
<b>Department of Health and Environment</b>				
Contamination Remediation	\$ 790,118	\$ 775,000	\$ 775,000	\$ 775,000
TMDL Initiatives	\$ 237,097	\$ 200,000	\$ 200,000	\$ 200,000
Local Environmental Protection Program		\$ -	\$ -	\$ -
Nonpoint Source Program	\$ 374,044	\$ 300,000	\$ 300,000	\$ 300,000
Watershed Restoration and Protection Strategy	\$ 716,351	\$ 625,000	\$ 625,000	\$ 625,000
<b>Total--Department of Health and Environment</b>	<b>\$ 2,117,610</b>	<b>\$ 1,900,000</b>	<b>\$ 1,900,000</b>	<b>\$ 1,900,000</b>
<b>University of Kansas--Geological Survey</b>				
	<b>\$ 26,841</b>	<b>\$ 30,000</b>	<b>\$ 30,000</b>	<b>\$ 30,000</b>
<b>Department of Agriculture-DWR</b>				
Interstate Water Issues	\$ 513,850	\$ 460,000	\$ 460,000	\$ 460,000
Subbasin Water Resources Management	\$ 702,722	\$ 640,389	\$ 619,220	\$ 619,220
Water Use	\$ 83,697	\$ 60,000	\$ 60,000	\$ 60,000
Sub-total--Department of Agriculture-DWR	\$ 1,300,269	\$ 1,160,389	\$ 1,139,220	\$ 1,139,220
<b>Department of Ag-Division of Conservation</b>				
Water Resources Cost Share	\$ 2,138,055	\$ 2,108,000	\$ 2,008,700	\$ 2,008,700
Nonpoint Source Pollution Asst.	\$ 2,424,078	\$ 2,108,222	\$ 2,008,691	\$ 2,008,691
Aid to Conservation Districts	\$ 2,259,754	\$ 2,260,000	\$ 2,260,000	\$ 2,260,000
Watershed Dam Construction	\$ 690,652	\$ 690,000	\$ 690,000	\$ 625,000
Water Quality Buffer Initiative	\$ 196,394	\$ 270,000	\$ 270,000	\$ 270,000
Riparian and Wetland Program	\$ 164,828	\$ 165,000	\$ 165,000	\$ 165,000
Water Supply Restoration Program	\$ 255,043	\$ 255,000	\$ 255,000	\$ 190,000
Water Transition Assistance Program/CREP	\$ 824,835	\$ 425,000	\$ 425,000	\$ 425,000
Sub-total--Dept of Ag-Division of Conservation	\$ 8,953,639	\$ 8,281,222	\$ 8,082,391	\$ 7,952,391
<b>Total--Department of Agriculture</b>	<b>\$ 10,253,908</b>	<b>\$ 9,441,611</b>	<b>\$ 9,221,611</b>	<b>\$ 9,091,611</b>
<b>Kansas Water Office</b>				
Assessment and Evaluation *	\$ 469,492	\$ 500,000	\$ 500,000	\$ 540,000
GIS Data Base Development	\$ 173,640	\$ 200,000	\$ 180,000	\$ 170,000
MOU - Storage Operations and Maintenance	\$ 366,802	\$ 360,364	\$ 360,364	\$ 360,364
Technical Assistance to Water Users	\$ 409,044	\$ 433,000	\$ 433,000	\$ 413,000
Weather Stations *	\$ 48,620	\$ 30,000	\$ 30,000	\$ -
Water Resource Education	\$ 38,200	\$ 45,000	\$ 45,000	\$ 45,000
Weather Modification *	\$ 97,935	\$ -	\$ -	\$ 90,000
Wichita Aquifer Recharge Project	\$ 657,459	\$ 400,000	\$ 390,000	\$ 500,000
Neosho River Basin Issues	\$ -	\$ -	\$ -	\$ -
<b>Total--Kansas Water Office</b>	<b>\$ 2,261,192</b>	<b>\$ 1,968,364</b>	<b>\$ 1,938,364</b>	<b>\$ 2,118,364</b>
<b>Department of Wildlife and Parks</b>				
ANS		\$ -	\$ 250,000	\$ 200,000
Stream (Biological) Monitoring	\$ -	\$ -	\$ -	\$ -
<b>Total--Department of Wildlife and Parks</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 250,000</b>	<b>\$ 200,000</b>
<b>Total State Water Plan Expenditures</b>	<b>\$ 14,659,551</b>	<b>\$ 13,339,975</b>	<b>\$ 13,339,975</b>	<b>\$ 13,339,975</b>

State Water Plan Resource Estimate	FY 2012 Legislative Approved	FY 2013 Proposal w/o ANS	FY 2013 Proposal with ANS	FY 2013 KWA Budget Committee changes
<b>Beginning Balance</b>	\$ 888,621	\$ (82,288)	\$ (82,288)	\$ (82,288)
<b>Adjustments</b>				
Standardized Water Data Fund Transfer	\$ 300,000			
Feral Swine Eradication Fund Transfer	\$ (175,000)			
Livestock Market Report Fund Transfer	\$ (20,000)			
Grain Warehouse Inspection Fund Transfer	\$ (75,000)			
Transfer to Kansas Corporation Commission	\$ (400,000)	\$ (364,000)	\$ (364,000)	\$ (364,000)
<b>Subtotal--Adjustments</b>	<b>\$ (370,000)</b>	<b>\$ (364,000)</b>	<b>\$ (364,000)</b>	<b>\$ (364,000)</b>
<b>Revenues</b>				
State General Fund Transfer	\$ -	\$ -	\$ -	\$ -
Economic Development Fund Transfer	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000	\$ 2,000,000
Fee Revenue	\$ 12,058,642	\$ 11,786,263	\$ 11,786,263	\$ 11,786,263
<b>Total Receipts</b>	<b>\$ 14,058,642</b>	<b>\$ 13,786,263</b>	<b>\$ 13,786,263</b>	<b>\$ 13,786,263</b>
Total Available	\$ 14,577,263	\$ 13,339,975	\$ 13,339,975	\$ 13,339,975
Less: Expenditures	\$ (14,659,551)	\$ (13,339,975)	\$ (13,339,975)	\$ (13,339,975)
<b>Ending Balance</b>	<b>\$ (82,288)</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>

\* these budget recommendations will be re-visited in November by the KWA to determine if the funding is warranted at the recommended level. Should the funding levels be modified, the KWA will advise the Governor and Legislature of the amended recommendations.

**DRAFT**

**FY 2013 SWPF Budget Request – Nutrient and Sediment Reduction**

**Amount:** \$6,000,000 – dependent upon reinstatement of the statutory State General Fund demand transfer.

**Agency:** Kansas Department of Agriculture, Division of Conservation (KDA-DOC)

**Purpose:** Fund implementation of nutrient and sediment reduction practices in high priority areas.

**Background:** Excess nutrients in Kansas waters have caused algal blooms leading to suspension of drinking water production, interruption of recreational access to lakes and reservoirs, increased drinking water production costs, fish kills, and toxicity to livestock and domestic animals. Reservoirs are integral to Kansas' water supply infrastructure, providing water supply for more than two-thirds of the state's population. Sedimentation is impacting these reservoirs, reducing the capacity to store water to meet our needs.

Development of a new program within the KDA-DOC will allow for a more targeted approach in reducing sedimentation and nutrient loading into waterways and reservoirs.

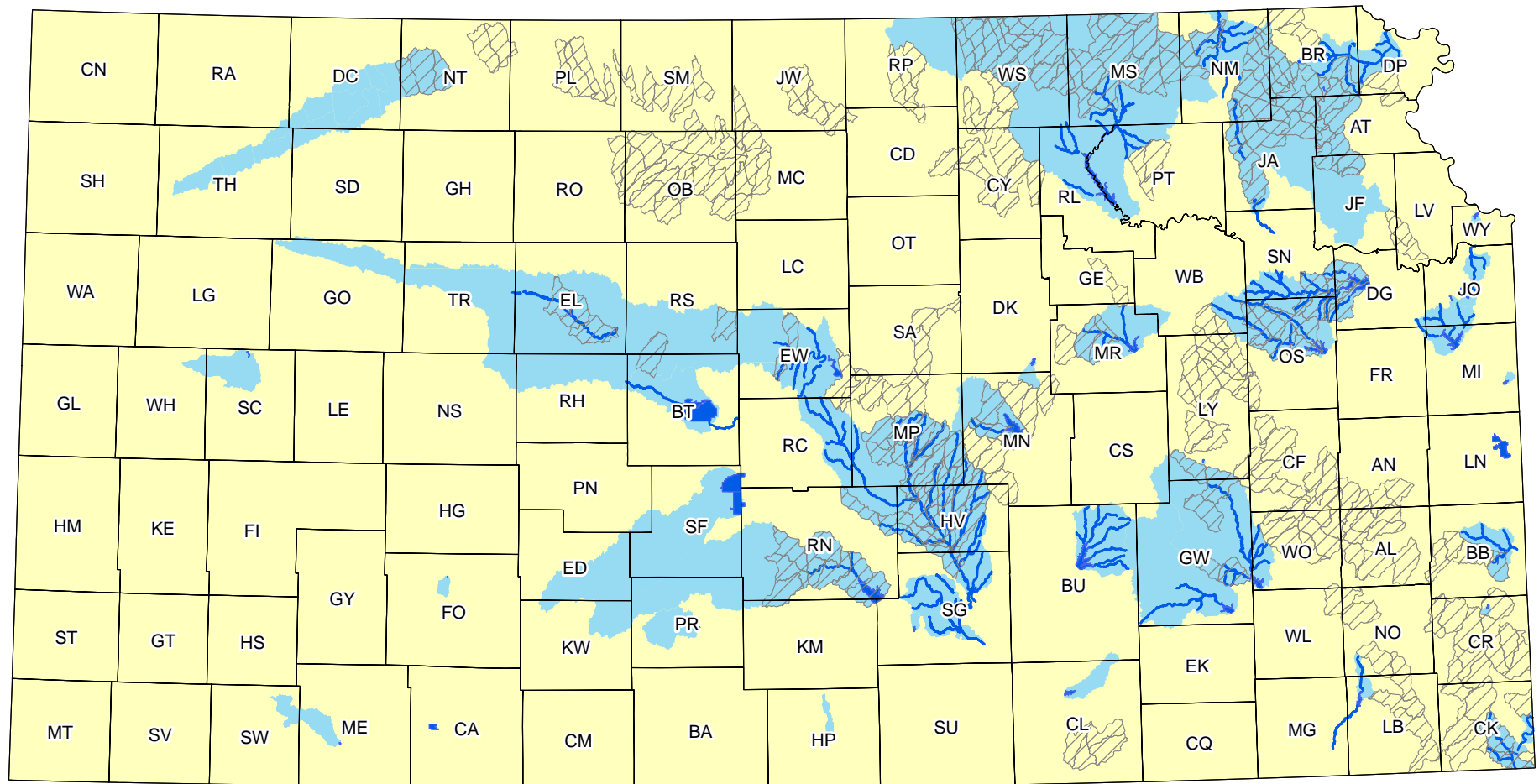
The program, as proposed, would link existing efforts by local Watershed Restoration and Protection Strategy (WRAPS) groups with implementation efforts through conservation districts. Local WRAPS Stakeholder Leadership Teams (SLTs) have, in many cases, now developed the required 9-element plans that can lead to implementation. The completed or draft plans to date (18 plans representing about 50% of the WRAPS groups) identify more than \$7 million per year in estimated best management practices (BMPs) needed to achieve their water quality goals, chiefly tied to achievement of Total Maximum Daily Loads (TMDLs) for nutrients and sediment.






WRAPS coordinators are in a prime position to help identify projects that will have the most benefit to meet the goals of those plans. Local conservation districts are already well equipped to efficiently provide the cost share programs to local producers. Having WRAPS coordinators work with local producers to obtain cost share through the conservation districts will insure program dollars are spent on the highest priority projects. In some situations, high priority nutrient and sediment TMDLs that are not addressed in WRAPS plans may be identified as a critical need; these, too, would be eligible for this program (see attached map).

Due to the voluntary nature of the program and the fact that watersheds span multiple counties, the program would be an "on demand" funding mechanism rather than a county allocation approach. The local conservation district would request funding for each project, or group of

projects, once they are identified. State agency staff would prioritize and respond to funding requests based on highest nutrient reduction for dollar spent.

# Best Management Practice (BMP) Implementation Areas to Address Nutrients and Sediment



-  Watershed Plan Priority HUC 12 Watershed (Tier 1 Funding Priority Areas)
-  High Priority TMDL Watershed (Tier 2 Funding Priority Areas)
-  High Priority TMDL Lake/Wetland/Wildlife Area (Tier 2 Funding Priority Areas)
-  High Priority TMDL Stream (Tier 2 Funding Priority Areas)
-  County Boundary

## **Proposal for FY 2013 ELARF Water Projects**

In recent years, the Kansas Water Authority has request an allocation of 10% of the expanded gaming revenues for water related projects. This overall request remains in place and the following are the suggested projects to be included with the Kansas Water Authority budget recommendations for FY 2013. The current estimate for 10% of the ELARF revenues for FY 2013 is \$8.5 million.

### **Conserving and Extending the Useful Life of Aquifers – \$2,900,000**

#### **Improved Irrigation Systems Efficiency and Management – \$1,000,000**

To maintain the current crop production levels and reduce total irrigation water use, technological and management improvements are essential. Agricultural engineers state the possibility of reducing irrigation water use by 25% with an energy savings of 35%, which would result in a net economic improvement to the individual producer and his/her community. Funding will allow for demonstrations of these water and energy saving technologies.

#### **Water Right Purchase – \$1,000,000**

The High Plains aquifer, particularly the Ogallala portion, is over developed in most areas in Kansas. Long term declines indicate the current level of use is unsustainable. Additional funding is essential to expand the Water Transition Assistance Program (WTAP), which allows the state to purchase and permanently retire water rights in priority areas that are closed to new appropriations. This program is essential to conserve and extend the life of the Ogallala aquifer.

#### **Market Based Seed Grants – \$300,000**

Stimulating new industry and/or value added agriculture that uses less total water than irrigation is critical in transitioning western Kansas to a lower water use economy. A key component to Governor Brownback's approach is economic development. Grant funding would be leveraged with additional funding opportunities for applicants to develop and implement innovative approaches and business ventures for western Kansas.

#### **Aquifer Storage and Recovery – \$600,000**

Aquifer storage and recovery is a method of capturing high flow events and storing water underground. The City of Wichita has successfully implemented an aquifer storage and recovery (ASR) project that captures high river flows in the Little Arkansas River and stores the water in the Equus Beds aquifer. This benefits the city by reducing reliance on surface water and reduces the salt contamination of the aquifer. This funding will provide opportunities for research of additional ASR projects throughout the state.

## **Reservoir Restoration and Protection – \$3,800,000**

### Storage Restoration – \$1,500,000

Dredging involves the physical removal of accumulated sediment through mechanical, hydraulic, or pneumatic means. Funding is needed to ensure projects within the Water Supply Restoration program for reservoir dredging and disposal of dredged materials are carried out in a timely manner.

### Streambank Stabilization –\$1,000,000

Growing evidence shows that a significant source of sediment in streams is generated from stream channels and edge of field gullies. Streambank erosion can contribute nutrients such as phosphorus, which can cause water quality impairments. Funding is needed to continue the process of implementing reach-based streambank stabilization.

### Dam Rehabilitation – \$1,000,000

There are nearly 6,000 dams in Kansas regulated by the Department of Agriculture, Division of Water Resources. With an average age of 40 years, some dams are exhibiting structural deficiencies, while post-construction development of others has raised their hazard classes. Funding is needed to meet the financial requirements for small dam rehabilitation and upgrades.

### Reservoir Data Analysis System – \$300,000

Establish a continuing program of integrated reservoir assessment as a part of a broader statewide effort to understand, predict, and plan for the numerous challenges facing the reservoirs that supply drinking water to much of the state.

## **Improving and Protecting Waters - \$1,000,000**

### Aquatic Nuisance Species Protection – \$750,000

Aquatic nuisance species (ANS) have invaded Kansas lakes and streams and expanded populations continue to be discovered in Kansas aquatic environments. Funding would be targeted towards education, inspections and enforcement to reduce the spread of ANS in Kansas.

### Remediation of Contaminated Sites – \$250,000

The Contamination Remediation Program was developed with the specific objective of providing a mechanism to address sites where the responsible party is not known, or is not viable and where there are no federal, state, or other funding sources available to complete required investigation and cleanup activities. Funding will be used to actively investigate, remediate and monitor sites in which contaminants have impacted soil, ground water and/or surface water in the state.

## **Improved Monitoring and Data Collection – \$800,000**

### LiDAR Data Acquisition - \$500,000

High resolution evaluation data will be derived from Light Detecting and Ranging (LiDAR) technology. Data will be useful for flood emergency management, community planning, reservoir sustainability research and other water resource evaluations.

### Expanded Streamgage Network – \$100,000

Streamflow data from U.S. Geological Survey (USGS) stations are used by federal, state and local government for planning and decisions related to agriculture, industry, urban water supplies, riverine and riparian habitat and flood hazard identification. An expanded streamgage network would enhance the state's ability to plan during times of drought and flood, as well as, to monitor Interstate Water Compacts.

### Expanded Weather Station Network – \$100,000

Data from automated weather stations is an important tool for the management of water resources. Several networks of these stations exist across the state, each designed to meet specific purposes. Funding will be focused on maintenance and operation of existing stations, development of new stations, and upgrading of network support capabilities.

### Suspended Sediment Monitoring - \$100,000

The purpose of the network is to characterize suspended sediment transport and deposition in Kansas reservoirs. The information gained from the network will be used to implement management strategies to reduce sedimentation and increase available water supply.