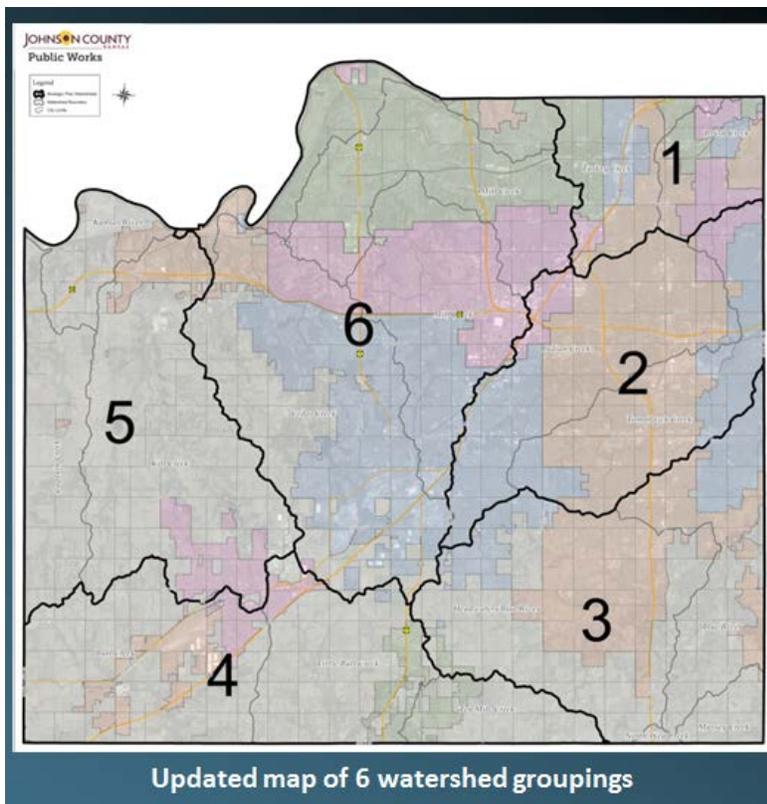


- Vireo and B&V will be consultants helping facilitate meetings and the implementation process.
- Participants should expect all meetings to occur at the Johnson County Transit Facility.
- Andrew of B&V asked attendees to introduce themselves. He provided a quick review of the SMP strategic plan.
 - **SMP Strategic Plan Review:** The last time the SMP strategic plan was put together was in 2002. The SMP decided to draft a new strategic plan with the goal of improving the value provided to area stakeholders. B&V and Vireo helped guide JC through the update of the plan which included a review of similar stormwater programs throughout the country. The updated plan seeks to establish a state-of-practice for a watershed based approach. Such an approach will look at needs on a watershed basis rather than a jurisdictional basis so as to leverage resources and gain maximum value.
 - Flood damage reduction will still be a key component of the program. The SMP will also look at stormwater system management and water quality.
 - **Watershed-Based Organizations:** The SMP will be transitioning from primarily a municipal based program to a watershed based program. The watershed-based sub-committee has met and looked at the structural framework for the organizations. The sub-committee determined watershed groupings of 6 organizations. A map of the groupings is provided below along with a list of the cities in each grouping with their corresponding percentage of land area. Highlighted cities represent a small portion of the grouping.



Cities in the 6 Watershed Groupings

Brush/Rock Creek		Indian Creek		Upper Blue River		Marais Des Cygnes River		Kill Creek		Cedar/Mill Creek	
Fairway	4%	Johnson County Uninc.	0.0%	Leawood	14%	Edgerton	35%	Gardner	7%	Bonner Springs	0.3%
Meriam	4%	Leawood	14%	Johnson County Uninc.	0.2%	Gardner	22%	De Soto	7%	De Soto	4%
Lenexa	15%	Lenexa	4%	Olathe	13%	Johnson County Uninc.	5%	Johnson County Uninc.	85%	Gardner	0.1%
Mission	9%	Olathe	21%	Overland Park	71%	Olathe	1.1%			Johnson County Uninc.	15%
Mission Hills	7%	Overland Park	57%	Spring Hill	1.7%	Spring Hill	36%			Lake Quivira	0.9%
Mission Woods	0.3%	Prairie Village	4%							Lenexa	22%
Overland Park	26%									Olathe	31%
Prairie Village	11%									Shawnee	27%
Roeland Park	6%										
Shawnee	17%										
Westwood	1.4%										
Westwood Hills	0.2%										

- Andrew then noted the flood damage reduction sub-committee goals and expectations.
 - Sub-Committee Goals:** The sub-committee will inform the flood damage reduction aspect of the watershed-based framework and will identify the preferred direction. The tactics and actions for flood damage reduction are provided below.

Flood Damage Reduction: Tactics & Actions

	SMP Staff
	SMP Staff and SMAC Committees
	SMP Staff, SMAC, and short-term assistance (1-3 years) beyond current capacity
	SMP Staff, SMAC, and long-term assistance (3+ years) beyond current capacity

TACTIC	STRATEGY
Review flood damage management project criteria	<ul style="list-style-type: none"> Define program priorities with respect to flood damage Coordinate effort with funding approach and criteria strategy
Watershed-scale flood management	<ul style="list-style-type: none"> Identify flood management projects in each watershed and review for regional planning applications Identify opportunities for efficient application of funds (low-hanging fruit) Publish list of flood management projects in each watershed improvement plan

- **Sub-Committee Expectations:** The implementation process will require a large amount of input from participants so an open discussion is greatly encouraged. Since the sub-committee has a lot of important ground to cover, the consultants may re-direct the conversation as needed.
 - **Schedule:**
 - The sub-committee will meet once a month for a total of 6 meetings. The timeframe will run from May thru October.
 - Meetings will be held the 2nd Wednesday of the month at the Johnson County Transit Facility.
 - **Review of Materials:**
 - Outside reference material will be drafted and provided to participants. Efforts to review materials prior to meetings are appreciated.
- Consultants called for any questions pertaining to the flood damage reduction sub-committee. The following comments were noted:
 - It would be helpful to know in hard numbers what the success of previous flood damage reduction efforts has been, such as how many projects have been done and what were the results.
 - It would be beneficial to know how many cities could not participate in the past program but now may be able to if 100% funding becomes available.
 - The sub-committee will need to know more on the existing magnitude of flooding for the County.
 - Prioritization and established metrics will have to look not only at the consequence of the failure but also the probability of that failure.
 - There should be a concerted effort on public education, particularly in terms of explaining the consequences of a do nothing approach. The public needs to have a better understanding of why the County and area stakeholders undertake flood damage reduction initiatives.
 - The SMP should establish the scope of potential reduction activities. For instance, KCMO is looking at a voluntary buy-out program of some 8,000 structures. The program should indicate the extent of potential activities.
 - The sub-committee should consider the sub-set of homes at flooding risk that currently don't meet SMAC eligibility and are outside of FEMA requirements.
 - The project points for voluntary buy-out should remain.
 - The sub-committee may need to consider if the 100 year event is the right standard for the program or if reducing the standard would be beneficial.
 - Future projects should take into account variability from climate change. The sub-committee should evaluate if new projects should be done with a measure of increased capacity.

Flood Damage Reduction Issues, Approach, and Priorities

- Consultants had sub-committee participants break into two groups to consider the following discussion points:
 - What flood damage reduction issues still need to be addressed?
 - How would a watershed-based approach impact flood damage reduction?
 - Which issues should have top priority in the SMP?

- Group activity results are provided below.

What flood damage reduction ISSUES still need to be addressed?	How would a watershed-based APPROACH impact flood damage reduction?	Which issues should have TOP PRIORITY in the SMP?
DEPTH OF FLOODING STRUCTURES (HABITABLE)	IDEAL. REGIONAL DET. FACILITIES (INFRAST.)	UPDATE HYD.
ROADWAY - OVERTOP	COORD w/ OTHER PROJECTS	ROADWAY VS. STRUCT.
VELOCITY " - INTERSECTION - PROLONGED SYSTEM UNDERSIZED	EXPANDED PROJECT LIMITS	TYPE OF STRUCT. - APT. - CRIT. INF. - BUSINESS
EROSION	LEVERAGE OUTSIDE FUNDING	TYPE OF ROADWAY
MODELED VS. OBSERVED		LEVEL OF SERVICE
LEVEL OF SERVICE ← STRUCT. ROADS CRIT. INF.		DEFINING COST/BEN.
STRUCTURES (NON HABITABLE)		SUCCESS?
COMMUNITY FACILITIES (PARKS, ATHLETIC FIELDS, ETC)		DEPTH OF FLOODING
DAM MAINT./PROTECTION		LEVERAGE OUTSIDE FUNDING
LAND USE CHANGES		
OVER-SIZING SYSTEM ← LOSS OF ATTENUATION.		

Group 1 Results

What flood damage reduction ISSUES still need to be addressed?	How would a watershed-based APPROACH impact flood damage reduction?	Which issues should have TOP PRIORITY in the SMP?
Look at Whole picture.... Points for Discrete Sol'n but need for apart	Allow a phased sol'n.... impacts both upstream/downstream addressed.	Those with the largest benefit. dollars? peak flow reductions?
New Sol'n - Slow water down... vs. Speed water up... ↑ WSL ↓ ↑ roughness	Need an education plan for public acceptance.	
500-year event	How to measure success baseline → result	
Scoring for projects?		
How are project benefits/costs determined on a watershed scale?		
Local match needed?		
Detention Pond Maintenance Costs		
Most local jurisdictions are reducing # ponds.		
Projects Too Small for Current System or Too Costly.		

Group 2 Results

- Sub-committee participants shared group activity results and consultants called for any additional comments. The following individual responses were noted:
 - The idea of allowing phased solutions would be beneficial, particularly from a management and funding perspective. Under the watershed-based approach, a city may have funding for the first phase followed by another city the subsequent year for the next phase.
- Andrew of B&V noted that a key component of the watershed based approach will be the development of watershed plans. He asked if part of the planning effort should include updates to flood models. The following individual comments were noted:
 - Updated modeling will need to be done in order to perform proper cost benefit analyses.
 - There may not necessarily be a benefit from updating the existing flood studies, but new modeling efforts should look at hydrology changes. New models would use the updated Intensity-Duration-Frequency curves along with updated LIDAR data.
 - An exercise could be done to assess the need for modeling updates by evaluating a stream section and comparing changes.
 - Further clarification on modeling needs can be expanded upon in subsequent meetings.

Closing / Next Steps

- Meeting closed with attendees requesting that meeting notes and materials be forwarded to them. Meeting materials can be found at the [SMP Strategic Plan](#) website. If comments or questions were missed in meeting notes, consultants asked that attendees forward any concerns to them.
- The sub-committee will meet again on June 14th at the same place. **However, the next meeting will be in the morning from 9:00 to 11:00 am.**
- SMP and consultants thanked the participants for their time and effort.