Chapter 6. Watershed Plan Recommendations

6.a Process for Determining Recommendations

The Stakeholders took several steps in determining their recommendations for reaching each achievable goal. They began by brainstorming strategies to achieve these goals. These strategies are general ideas for approaches that could be used. They realized that strategies tended to apply to more than one goal. Next, they matched each strategy with the applicable achievable goals. Then, the Stakeholders wrote policy recommendations that clarified how the strategy could be used to achieve each goal. Finally, as a group, they reviewed each recommendation to assure that its intent was clear and well stated, and that it helped to achieve its respective goal. The Stakeholders formally approved the recommendations at their January 29th, 2007 meeting.

It should be noted that the recommendations are somewhat general. The Stakeholders decided it was important to make the overall message of each recommendation well-stated for policy makers. However, they wanted to leave flexibility for the different governing agencies regarding the specifics of implementation. The Stakeholders also thought that they did not have the technical expertise, nor time to add sufficient detail on how each recommendation should be implemented.

6.b Recommendations

Note: these recommendations are not prioritized.

Recommendations that apply to all goals:

- 1) It is important to have a follow-up program to assess the effectiveness of plan implementation. This follow-up program includes three aspects:
 - o Enforcement/inspection will assure that new ordinances are being followed.
 - **o Maintenance** of new stormwater and sewer infrastructure will be necessary for proper functioning.
 - o Plan evaluation is key to understanding whether the plan is being followed as intended, and how effective the various measures are. This may include actual stream monitoring, as well as analyzing implementation of the recommendations. Stream monitors must use generally accepted, quantifiable measures of water quality obtained at regular intervals on an ongoing schedule, and the data must be collected by certified entities/persons.
 - **2) Equity:** Measures implemented to protect water quality should not unfairly burden individuals. Every effort should be made to create incentive-based programs.

Goal	Strategies	Recommendations
Ensure that	Update 100	Political subdivisions should consider complete hydrologic model-
structures are	year flood-	ing to determine where the 100-year floodplain would be under full
not built in	plain maps	build-out conditions, and locate it more accurately on floodplain
places that will	and	maps. This modeling should be limited to developing areas to keep
flood	regulations	costs down. Allow no construction of structures for occupancy in
		the re-delineated 100-year floodplain.
	Zoning –	Adopt a stream buffer ordinance that limits construction within its
	Streamside	boundaries
	buffer ordi-	
	nance	
	Design	Do not permit new development to increase peak flows downstream
	manual	so that flooding is not exacerbated.
	Purchase	City or County may offer to purchase a structure, at prevailing mar-
	structures that	ket rate, to correct a flooding problem in an existing neighborhood,
	flood now	if the cost of correcting the problem exceeds the value of the struc-
		ture.

Goal	Strategies	Recommendations
Conserve	Design	The level of service (following Columbia's proposed storm-
recharge & karst	manual/	water manual and ordinance) will be more restrictive (e.g. by
areas with special	Performance	one or two points on the level of service scale) in karst and re-
protections	based goals	charge areas than in other areas. Local governments will adopt
		similar, compatible stormwater ordinances and design manuals.
	Zoning	Zoning ordinances will establish specific criteria for develop-
		ment in karst recharge areas. These should include defining
		levels of stormwater quantity and quality, and limiting new
		sanitary sewers to <i>no discharge systems</i> .
	Land purchase	Local governments may purchase land from willing sellers in
		karst recharge areas, but other options for protecting water qual-
		ity should be explored first. Create management plans for this
		purchased land with a primary goal to protect water quality.
		(Government takings or eminent domain should not be used for
		acquiring land for this purpose)
	TDRs &	Transfer of development rights (TDR) should be established
	conservation	county-wide, with sensitive areas (such as karst recharge areas
	easements	and steep slopes) being primary sending areas. This program
		should enable the cities and the county to have <i>joint program</i>
		reciprocity. TDR and conservation easements should be eco-
		nomically and logistically feasible options for use by landown-
		ers and developers.
	Tax relief	Create incentives to encourage conservation in karst recharge
		areas.
	Zoning and	Consider a plan to provide special protections to karst and re-
	Subdivision	charge areas.
	regulations;	
	Design manual	
	Further	More scientific analysis should be done to delineate further
	scientific study	karst recharge and other environmentally sensitive areas, and
	and monitoring	more definitively identify sources of contamination.

Goal	Strategies	Recommendations
Ensure that	Design	The <i>level of service</i> (following Columbia's proposed stormwater
changes in	manual	ordinance and manual) for stormwater runoff flow characteristics
land use do		post-development shall be no less than pre-development. Similarly,
not increase		stormwater quality should have the same or better characteristics for
downstream		post-development as it had pre-development. Local governments
flooding or		should adopt similar, compatible stormwater ordinances and design
channel in-		manuals.
stability, or	Encourage	Local governments should establish additional zoning and subdivi-
decrease water	low impact	sion regulations that allow LID as a <i>matter of right</i> (i.e., approval
quality	development	will be expedited). This avoids the problems associated with the
	(LID)	planned development process and encourages LID.
	Education	Make new stormwater manuals and ordinances widely available and
		familiar to the public through a public outreach and education effort.
	Develop	New sources of funding should be pursued to assist landowners in
	funding	implementing stream-protection best management practices
	mechanisms	(BMPs). Compile a list of available sources of funding and provide
		to landowners and developers.
	Financing of	Secure sustainable, adequate funding for stormwater programs.
	storm water	
	program	

Goal	Strategies	Recommendations
Encourage	Education	Implement a comprehensive educational program for the general
low impact		public, landowners, and developers to encourage LID.
develop-	Design	Revise local governments' development regulations to promote envi-
ments as a way	manual	ronmentally sensitive design and maintenance.
to maintain or		The level of service (following Columbia's proposed stormwater
improve water		manual and ordinance) will be more restrictive (e.g. by one or two
quality		points on the level of service scale) in susceptible subwatersheds
		(following maps 6.0E, 7.3E and 8.2B of the Subwatershed Sensitiv-
		ity Analysis) than in less susceptible subwatersheds. Local govern-
		ments will adopt similar, compatible stormwater ordinances and
		design manuals.
	Tax relief,	Create economic incentives to encourage developers to implement
	funding,	LID.
	Economic	
	development	

Goal	Strategies	Recommendations
In order to	Land	Provide mechanisms and/or incentives to set aside land in non-
maintain quality	purchase,	LID developments for land to be set aside for parks or green
of life, encourage	Develop	space, especially in conjunction with a stream buffer. Encour-
parks, healthy	funding	age these features in other new, as well as preexisting, neigh-
streams, LID, and	mechanisms,	borhoods.
municipal services.	Economic	
	incentives	

Goal	Strategies	Recommendations
Maintain the	Education	Include information on protecting clean streams in development
economic viability		information distributed by the city and county (through web,
of the community		forms, brochures). Develop a map that shows protected areas
while protecting		and include this in all literature related to development.
clean streams	Design	Local governments should adopt similar, compatible stormwater
	manual	ordinances and design manuals that have stream protection in-
		formation and requirements.
	Zoning	Address zoning where protection is necessary.

Goal	Strategies	Recommendations
Enhance healthy	Education	Make stream protection a central part of park management.
streams in parks		Establish park definitions to include stream protection goals.
		BMPs should be used on property owned by local governments.

Goal	Strategies	Recommendations
Maintain	Design	Give detailed design information to developers and engineers to
clean water	manual	assist them in controlling runoff quality and quantity from develop-
without		ment.
unnecessar-	Zoning	Use voluntary zoning changes to direct density, and therefore higher
ily restricting		runoff, to the most appropriate areas.
property rights	Subdivision	Revise local governments' ordinances and design manuals to enable
	and zoning	reductions in impervious surface by allowing flexibility in street
	regulations	width, sidewalks, etc.
	Education	Expand public education newsletters and mail them more frequently.
	Develop	Secure sustainable public funding for the operation and maintenance
	funding	of BMPs, especially those initially funded by government agencies.
	mechanisms	
	TDRs and	Encourage landowners to use various economic incentives (e.g. con-
	conservation	servation easements and TDR).
	Easements	

Goal	Strategies	Recommendations
Have policies	Zoning	Locate retail, by appropriate zoning, to areas that will allow the
which boost		most efficient use of infrastructure and the least hazard of stream
jobs, retail,		pollution.
tax base, and	Economic	Consider reduction in fees and other expenses paid by developers
local	incentives	of commercial property, in preference to the creation of additional
economics		special transportation districts. For locally-owned businesses, give
		economic incentives to help implement LID.
		Use tax incentives for owners of LID-style commercial/retail struc-
		tures.
	Zoning	Exempt agricultural land from restrictions and stream buffers to
		maintain and enhance maximum economic opportunity for farmers
		and related agricultural activities, as well as to keep land in agricul-
		tural use.

Goal	Strategies	Recommendations
The impacts of up-	Performance	1) Determine baseline conditions for the establishment of moni-
stream	based goals/	toring programs. These conditions should include stream water
urbanization	Design	quality, amount of stormwater discharge, stream cross-sec-
should be	manual	tions.
mitigated to		2) Publicly monitor at specified time periods at specific loca-
prevent increased		tions to determine effectiveness of currently implemented plan.
costs to	Develop	Ensure that local governments provide adequate funding for
agricultural and	funding	their stormwater programs via a stormwater utility fee.
other downstream	mechanisms	
property owners.	TDR &	Use land purchase, TDRs, conservation easements, etc. where
	conservation	applicable to encourage conservation in appropriate areas.
	easements	

Goal	Strategies	Recommendations
Ensure that BMPs	Education	Publicize information on cost-effective BMPs.
do not unreason-	Zoning	Amend zoning regulations to allow for increased density in ex-
ably affect housing		change for improved stormwater quality and quantity manage-
affordability.		ment.

Goal	Strategies	Recommendations
Ensure that	Zoning	Zoning regulations will reflect the sensitivity of the watershed/
certain areas		subwatershed. This will allow for economic growth while pro-
receive special		tecting sensitive subwatersheds.
protections while	Design	Revise local governments' stormwater design manuals with spe-
maintaining the	manual	cific design criteria for sensitive subwatersheds.
economics of		
urbanization.		

6.c Plan Approval

The Stakeholders agreed that they play an important role when various agencies undertake the plan approval process. The Stakeholders are an important resource in order to clarify any uncertainties in relation to the plan. Their support will also be crucial to the plan's approval, since the Stakeholders represent various important perspectives from the community. They can play important roles, both in work sessions and in public hearings related to the plan.

After the plan is published, three public meetings will address the plan. These meetings, run by the Bonne Femme Watershed Project, will provide the public an opportunity to learn more about the plan. The thirty days between plan publication and the meetings will give the public time to read the plan, and prepare comments. The Stakeholders will have a follow-up meeting to respond to the public's comments. Both the public comments and the Stakeholders' responses will be published as a plan addendum.

Upon publication of the plan and its related addendum, members of the Bonne Femme Policy Committee (see Appendix D) should initiate the approval process with their respective agencies.

6.d Plan Continuity

Although county support for the Stakeholders will end with the conclusion of the Bonne Femme Watershed Project, Stakeholders may choose to function as an autonomous group. In order to keep the plan alive, Stakeholders felt that it was important that the plan's progress be evaluated over the next decade. They decided they would ask local governments for annual reports on the plan's implementation. These reports would help to hold local governments accountable for the plan's implementation. In addition, the reports will document local governmental support for the plan, aid the public in tracking the implementation of the plan, and provide for ongoing public input. Upon evaluation of the reports, the Stakeholders and the public may suggest how the plan could be more effectively implemented.