# Growth Readiness Having Growth and Water Quality Too Water Water Everywhere New Partners for Smart Growth Conference January 26, 2006

# **Program helps communities**

- · Learn how land use decisions effect water quality
- · Comply with regulatory requirements
- Make informed decisions about managing growth



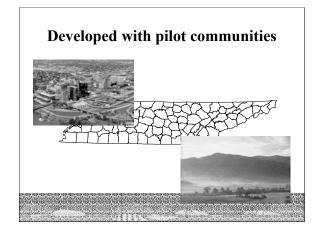
# **Built on existing best practices**

- University of Connecticut's NEMO
- Center for Watershed Protection



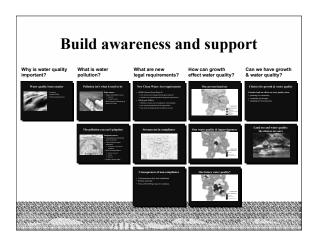


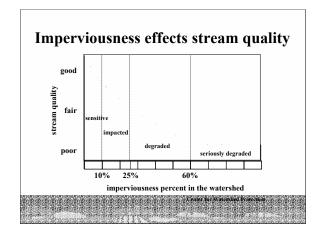




# **Training and Community Workshops**

- Build awareness and support
- Consider model development principles
- Build consensus for change







#### **Consider Model Principles Streets and Parking** Lot Design 1. Street width 11. Open space development 12. Setbacks and frontages

- 2. Street length
- 3. Right-of-way width
- 4. Cul-de-sacs
- 5. Vegetated open channels
- 6. Parking ratios
- 7. Parking codes
- 8. Parking lot design
- 9. Structured parking
- 10. Parking lot runoff

- 13. Sidewalks
- 14. Driveways
- 15. Open space management
- 16. Rooftop runoff

#### Natural Areas

- 17. Aquatic buffers 18. Buffer maintenance
- 19. Clearing and grading
- 20. Tree conservation
- 21. Conservation incentive 22. Surra water outfalls

valuate existin	g development	rules		
didde chistin	5 de veropinent	1 4105		
Center for Watershed Protection's Codes and Ordinances to	Vorksheet		-	
Rating Questions	Ratings Sasia for Rating			
1. Street Width		YES, award 2 points		
What is the minimum payement width allowed for streets in low	0 If the answer is between 18-22 feet, award 4 points	YES, award 2 points		
density residential developments that have less than 500 average	-			
daily trips (ADT)?  b. At higher densities are parking lanes allowed to also serve as traffic.	0 If the answer is YES, award 3 points			
lanes (i.e., quesing streets)?	o la sua mana la 123, maio 3 porta	YES, award 3 points if the array		
		stion No. 12		
Street Length     Do street standards promote the most efficient street levouts that	0 If the answer is YES, award 1 point	YES, award 1 point		
a. Do street standards promote the most empent street layouts that reduce overall street length?	0 If the answer is 105, award 1 point	NO, award 1 point		
•		YES, award 1 point		
Right-of-Way Width     What is the minimum right-of-way (RCW) width for a residential	0 If the answer is less than 45 feet, award 3 points	YES, award 2 points		
a. What is the minimum right-or-way (ROW) width for a residential street?	U If the answer is less than 40 feet, award 3 points	,		
b. Does the code allow utilities to be placed under the paved section	0 If the answer is YES, award 1 point			
of the ROW?				
4. Cul-de-Saca		YES, award 1 point		
a. What is the minimum radius allowed for cul-de-sacs?	0 If the answer is less than 35 feet, award 3 points if the	20 feet or less award 1 point		
b. Can a landaceped island be created within the cul-de-sac?	answer is 36 feet to 45 feet, award 1 point 0 If the answer is YES, award 1 point	20 Net or Hiss, award 1 point		
c. Are alternative turn arounds such as "hammerheads" allowed on	0 If the answer is YES, award 1 point	25 feet or less, award 1 point		
short streets in low density residential developments?		8 feet or less, award 1 points		
5. Vegetated Open Channels		o met or man, anaro i poeta		
Are curb and outliers required for most residential street sections?	0 If the answer is NO, award 2 points	less than 80 feet, award 2 point		
<ul> <li>Are there established design criteria for swales that can provide atorresater quality treatment (i.e., dry swales, biofilters, or crass)</li> </ul>	0 If the answer is YES, award 2 points			
stormwater quality treatment (i.e., dry swares, bioliners, or grass swales)?		4 feet or less, award 2 points		
		NO, award 2 points		
6. Parking Ratios		YES, award 1 point		
a. What is the minimum parking ratio for a professional office building (per 1000 ft2 of cross floor area?)?	0 If the answer is less than 3.0 spaces, award 1 point	TES, seed 1 point		

enter for Watershed Protection's Codes and Ordinance	s Worksheet	
ating Questions	Ratings	Basis for Rating
Street Width		
<ul> <li>What is the minimum pavement width allowed for streets in low density residential developments that have less than 500 average daily trips (ADT)?</li> </ul>	4	If the answer is between 18-22 feet, award 4 points
b. At higher densities are parking lanes allowed to also serve as traflanes (i.e., queuing streets)?	0	If the answer is YES, award 3 points
Street Length		
a. Do street standards promote the most efficient street layouts that reduce overall street length?	O°	If the answer is YES, award 1 point
Right-of-Way Width		
a. What is the minimum right-of-way (ROW) width for a residential street?	3	If the answer is less than 45 feet, award 3 points
b. Does the code allow utilities to be placed under the paved section of the ROW?	0	If the answer is YES, award 1 point
Cul.de-Sacs		
a. What is the minimum radius allowed for cul-de-sacs?	9	If the answer is less than 35 feet, award 3 points If the answer is 36 feet to 45 feet, award 1 point
b. Can a landscaped island be created within the cul-de-sac?	10	If the answer is YES, award 1 point
c. Are alternative turn arounds such as "hammerheads" allowed on short streets in low density residential developments?	- 04	If the answer is YES, award 1 point

<b>Build consensus for change</b>			
Planners     Page denoutment	Dept. of public works     Developers		
<ul><li>Road department</li><li>Land trusts</li></ul>	<ul><li>Developers</li><li>Realtors</li></ul>		
Real estate lenders     Fire Marshall	<ul><li>Civic associations</li><li>Health department</li></ul>		
Land use lawyers	Engineering consultants		
<ul><li>Homeowner associations</li><li>Elected officials</li></ul>	<ul><li>Chamber of Commerce</li><li>Urban forester</li></ul>		
Municipal insurance	Watershed advocates		
Storm water mgt authority			

# Using a lean, well-managed process | Convene | identify | build | recommend | implement | changes | consensus | recommend | implement | changes | consensus | con

# Community consensus building

#### Common understanding of issues and choices

- Growth's affects on water resources
- Water resources economic, legal and quality of life importance
- Imperviousness
- 22 model principles
- · Projected growth



# Community consensus building

#### Agree on what's right for the community

- · Issues raised by maps made from first workshop
- · Decide which principles are right for community
- Tailor selected principles to their community



# Community consensus building

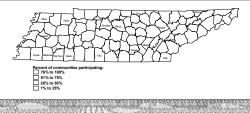
#### Get organized for change

- Agree on recommendations
- Develop action plan



### **Tennessee Growth Readiness**

- 370+ participants representing 280+ cities & counties
- 199 communities evaluated development rules
- 40 are making changes



# **Scores of Participating Communities**

Score	CWP Characterization	Communities
80-100	Few or no changes needed	0
60-79	Opportunities for improvement	8
<60	Reform needed	191

Water Water Everywhere January 26 2001

## New Scores of 40 Communities Making Changes (Completed or Planned)

Score	CWP Characterization	Communities Original/New
80-100	Few or no changes needed	0/2
60-79	Opportunities for improvement	4/12
<60	Reform needed	36/26

# **Amount of Change Varied**

- 30 communities: < 20 points
- 10 communities: increased by as much as 38 points
  - Multiple Jurisdiction Codes and Ordinances Review Workshop
  - Community Site Planning Roundtable Workshop Series

#### **Blount Pilot**

- · Drivers
  - Storm Water Phase 2 regulations
  - Community interest in preserving stream quality
- 10 participants
- · Codes and ordinance worksheet scores
  - Alcoa

49 **→** 71

- Blount County 54 → 64
- Maryville
- 45 **→** 71

**Knox Pilot** 

- Drivers
  - Storm Water Phase 2 regulations
  - state water quality standards compliance
  - community concerns about growth and quality of life
- 3 years 2 phases
- Core of 45 participants 85 contributed ideas
- · Codes and ordinance worksheet scores
  - regulations

# The Future of Growth Readiness • Tennessee

- Duck River Watershed Site Planning Roundtable
- New Site Planning Roundtables 29 communities indicated possible interest
- Land Use Planning for Water Quality
- · Expansion to other states
  - Kentucky training
  - Virginia Tazewell Co., Wise Co. workshops
  - Georgia North Georgia pilot

# Water Quality May Not Be a Community's Priority Issue

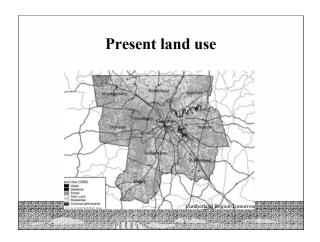
- · Preserving open space, farmland and historic sites
- Increased tax base and job opportunities
- · Transportation systems
- · Air and water pollution
- · Adequate schools

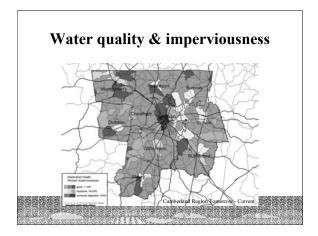
But addressing these issues may improve water quality!

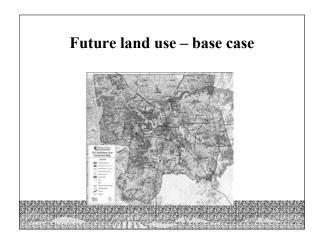
# **Cumberland Region Tomorrow**

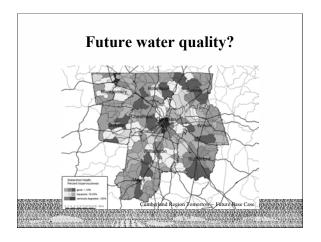
#### Coals

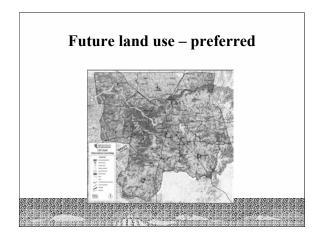
- · Preserve unique community character and heritage
- Preserve critical open spaces
- Encourage high quality development practices

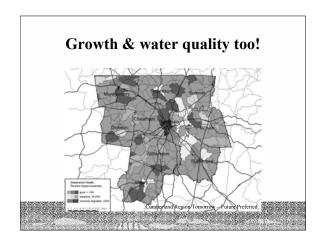


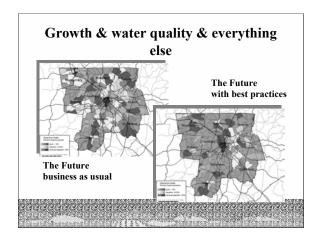












### **Contact Information**

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 $\frac{\underline{http://southeastwaterforum.org}}{\underline{http://watershed-assistance.net}}$   $\underline{http://tgrowth.org}$