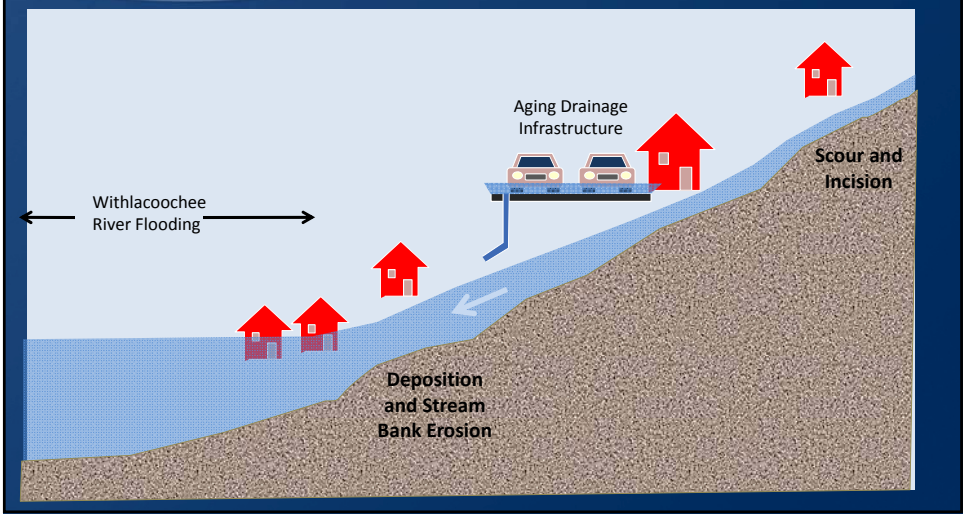


**Meeting No. 5
Recommendations to Council
Agenda**

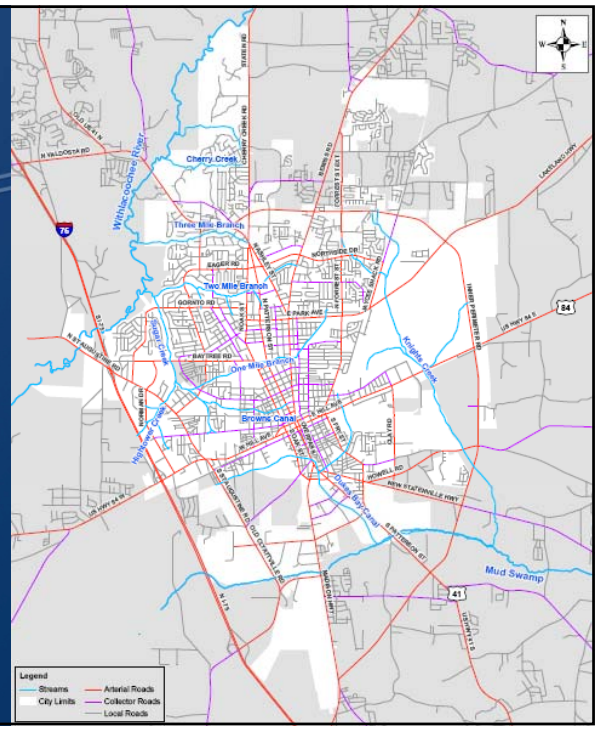
- 1. Meeting 4 Summary: Level of Service Discussion**
- 2. Roadway Level of Service**
- 3. Structural Level of Service**
- 4. Volumetric and Peak Flow Controls**
- 5. Open Discussion**

A photograph showing a group of people seated around several long white tables in a meeting room. A man in a suit is standing at the front of the room, presenting to the audience. A large screen at the front displays a presentation slide.

Meeting No. 4 Level of Service Discussion Summary of Relevant Issues in Valdosta



Valdosta Roadway Classification

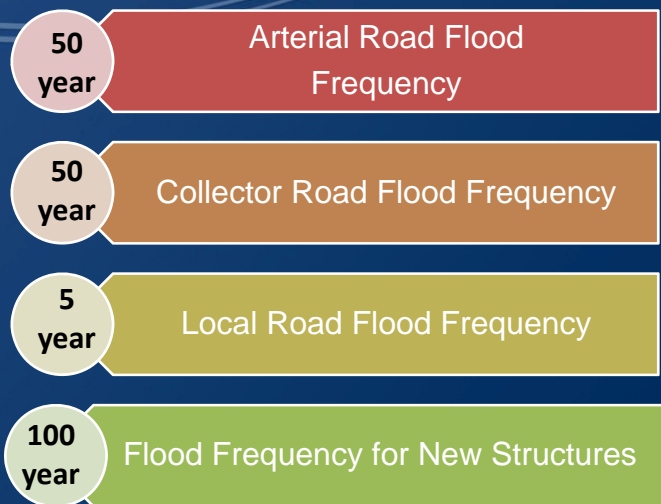


CDM has evaluated 30% of the streams and most roadways currently meet the Level of Service (70%)

Stream	Number of Crossings			Total	Not meeting LOS
	Local	Collector	Arterial		
One Mile Branch	5	4	5	14	5
Two Mile Branch	8	2	8	18	
Three Mile Branch	2	0	3	5	
Sugar Creek	1	2	3	6	2
Hightower Creek	2	1	6	9	2
Dukes Bay Canal	11	5	8	24	
Cherry Creek	4	0	0	4	
Knights Creek	1	2	10	13	
Browns Canal	7	2	2	11	2
			Total	104	

Preliminary Results from ongoing stormwater master plan

Proposed Quantity Level of Service (LOS)



Proposed Quantity Level of Service (LOS)

50
year

Arterial Road Flood
Frequency

- ◆ Many of the arterial roads within the City are operated and maintained by GA DOT
- ◆ The DOT standard for arterial roads is the 50 year recurrence interval
- ◆ There are a total of 45 arterial roadway bridges/culverts in the City
- ◆ City Criteria: 0.5 ft of water or less for the 50 year 24 hour design storm (8.4 inches)
- ◆ 75% of arterial roads in compliance



Proposed Quantity Level of Service (LOS)

50
year

Collector Road Flood Frequency

- ◆ Some of the collector roads will be upgraded to arterial roads in the next few years
- ◆ There are 18 collector roadway bridges/culverts in the City
- ◆ 10 year LOS: 89% roads in compliance
- ◆ 25 year LOS: 66% roads in compliance
- ◆ 50 year LOS: 66% roads in compliance
- ◆ Proposed City Criteria: 0.5 ft of water or less for the 50 year/24 hour design storm

Proposed Quantity Level of Service (LOS)

5
year

Local Road Flood Frequency

- ◆ There are 41 local roadway bridges/culverts in the City
- ◆ 5 year LOS: 90% roads in compliance
- ◆ Proposed City Criteria: 0.5 ft of water or less for the 5 year/24 hour design storm (5.5 inches)



Proposed Quantity Level of Service (LOS)

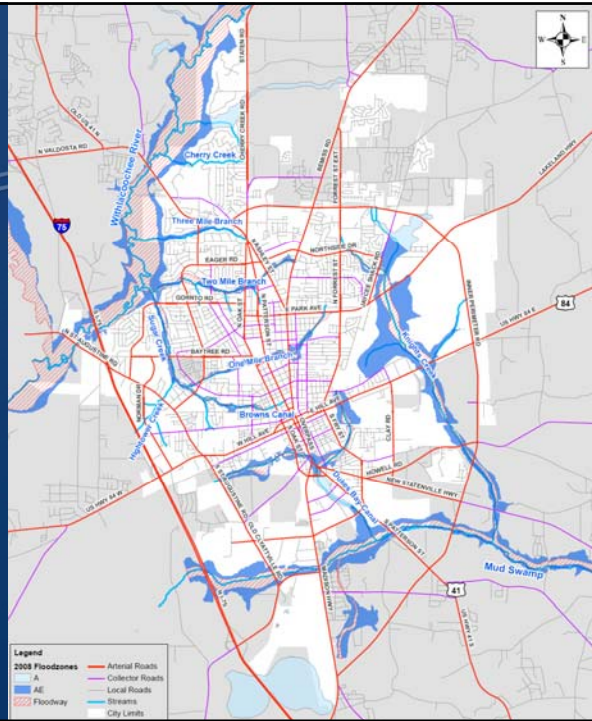
100
year

Flood Frequency for New Structures

- ◆ Agreement with Federal Standards
- ◆ City could enforce that all new structures (homes, buildings, businesses) should be built above the 100 year stream elevation based on the highest between:
 - ◆ FEMA 2008 Flood maps
 - ◆ City Stormwater Master Plan (2010)

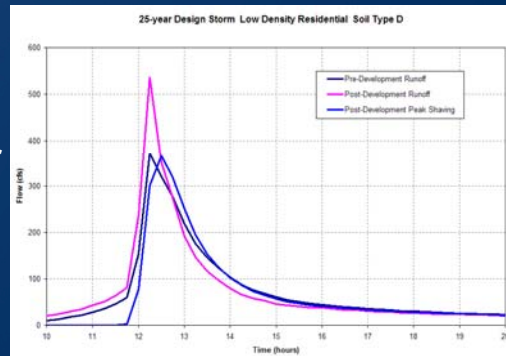


2008 FEMA Floodzones



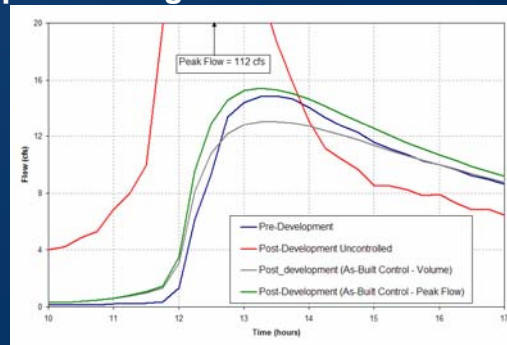
Upcoming Development should be controlled by a comprehensive set of rules

- ◆ To protect against future increase in flood levels in the Mud Creek and Withlacoochee tributaries, the City should implement volumetric controls for future development.
- ◆ In addition to enforce Georgia requirements (1.2 inches of rainfall), the City might consider controlling total runoff volume discharged by new developments.



Volumetric Control: A potential approach for tail water controlled sub-basins

- ◆ Require new development to retain 25 year/24 hour runoff within the property ensuring that the volume discharged between hour 10 and 17 is not greater than in the pre-existing condition.
- ◆ By implementing volumetric control about 10% of the parcel area will be dedicated to storm-water control



Discussion



Stormwater Committee (SWC) Meeting Dates

- ◆ Nov 17 2009 – Introduction
- ◆ Dec 1 2009 – Regulations and Existing Program
- ◆ Jan 19 2010 – Typical Elements - Levels of Service (LOS)
- ◆ Feb 23 2010 – Special Considerations and LOS Discussion
- ◆ Mar 23 2010 – Recommendations to Council
- ◆ Apr 20 2010 – Extra Meeting (if necessary)
- ◆ April 22 2010(?) – Final Recommendations to Council