Capital Considerations
Stormwater Advisory Committee

Unified Government of Athens-Clarke County

Woodhaven Drive

Lavender Road

Rhodes Drive

Seagraves Drive

Olympic Drive

Hemlock Drive

Athena Drive

Barber Street

Brooklyn Road

Canady Road

Holcomb Drive over Cedar Creek

What's happening?

1. Pipe failures
    1. Age
    2. Use of steel
    3. Poor construction
2. Rainy years
    1. Accelerates pipe deterioration
    2. Increases streambank erosion
    3. Exacerbates septic system and yard drainage problems
3. Labor shortage
4. Price increases
5. Supply chain

What are the solutions?

1. Use Stormwater Enterprise Fund on an emergency basis
2. Seek additional funding
    1. SPLOST
    2. TSPLOST
    3. Grants
    4. Fee increase
3. Reduce Costs
    1. Size pipes in-house
    2. Construction in-house
    3. Materials, construction
    4. Ecosystem fragmentation
4. Manage other needs realistically

Potential Stormwater Investments

1. Areawide stormwater master plan from 2002
    1. Existing flooding problems
    2. Potential flooding problems – undersized pipes
2. Watershed management study projects
3. Public street drainage improvements
4. Neighborhood drainage projects
5. Single family residential drainage problems (DIAs as we currently do them)
6. Operational maintenance of inlets and storm pipes in the right of way
7. Replacement of storm pipes under public roads
8. Oversight of new construction and redevelopment to minimize future problems
9. Minimization of pollutant loadings to local streams and rivers

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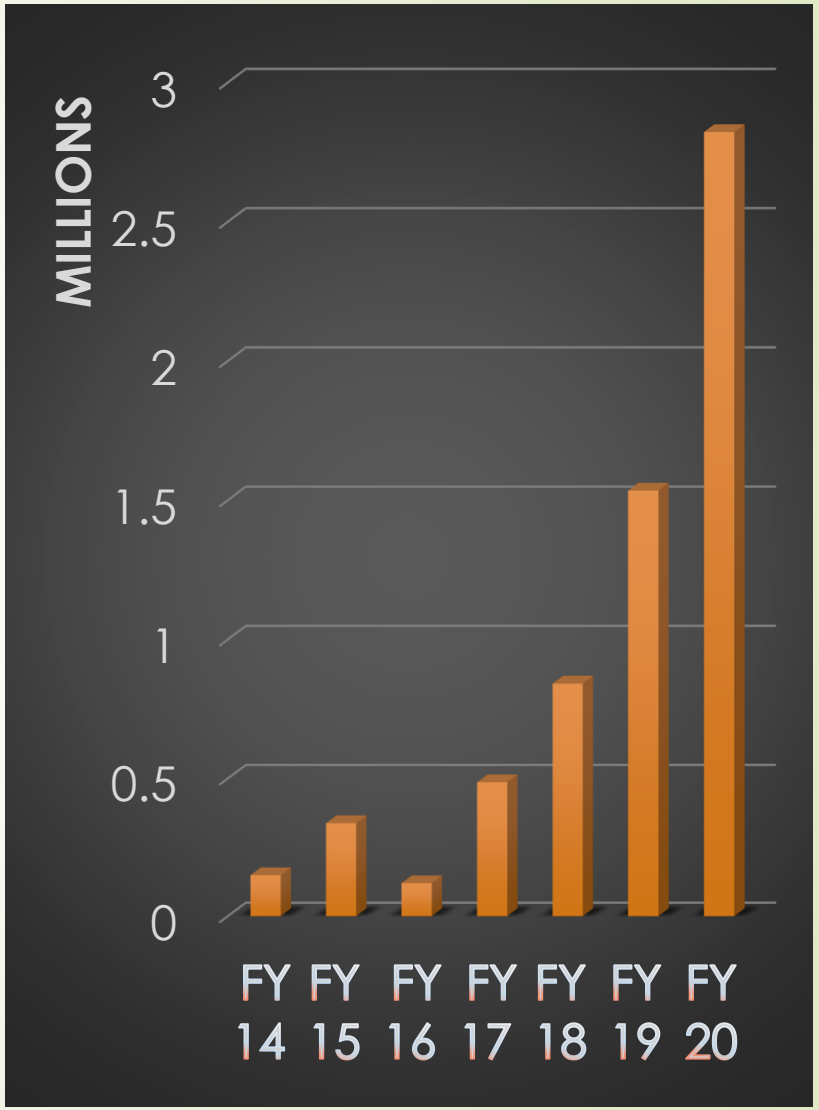
Foundational Stormwater Investments for Athens-Clarke County Resiliency

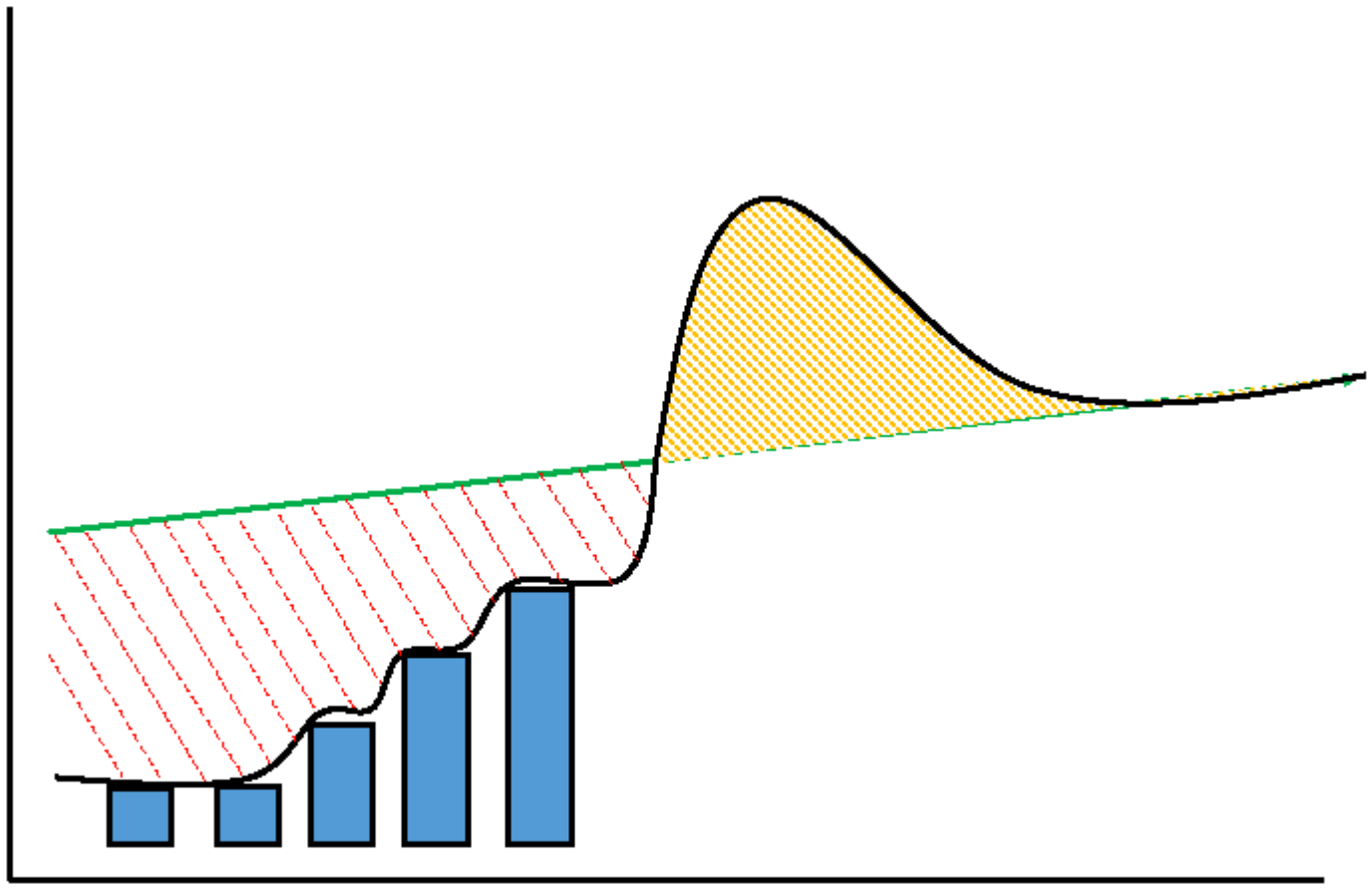
1. Operational maintenance of inlets and storm pipes under public roads
2. Replacement of old stormwater pipes under public roads
3. Minimization of pollutant loadings from existing development to local streams and rivers
4. Oversight of new construction and redevelopment to minimize future flooding and water quality problems

Trending Toward More Emergencies

No.	Project Name	Fiscal Year	In-House or Contracted	Construction Cost (Actual or Estimated)	Size
1	Shoal Creek Farm Dam	FY18	Contracted	$ 260,630	(4) 12"
2	Weatherly Woods	FY18	In-House	$ 196,448	72"
3	W. Broad Street Pipe Replacement	FY18	In-House	$ 312,402	48"
4	Riverview Pipe Replacement	FY19	Contracted	$ 369,928	42"
5	Barber Street Pipe Replacement	FY19	Contracted	$ 1,058,705	(2) 10 ft X 8 ft
6	Carriage Lane Culvert Replacement	IN PROGRESS	Contracted	$ 1,191,537	(2) 10 ft X 8 ft
7	Hemlock Drive	IN PROGRESS	In-House	$ 60,586	60"
8	Seagraves Drive	IN PROGRESS	Contracted	$ 300,000	6 ft X 6 ft
9	Athena Drive	IN PROGRESS	Contracted	$ 740,000	9 ft X 8 ft
10	Charlie Bolton Rd	IN PROGRESS	Contracted	$ 530,000	(2) 8 ft X 8 ft
11	Olympic Drive	IN PROGRESS	TBD	TBD	TBD
			TOTAL	$ 5,020,235	



Cost of Ownership



Georgia Infrastructure Grades

AVIATION	B+
BRIDGES	C+
DAMS	D
DRINKING WATER	B-
ENERGY	B
PARKS, RECREATION, AND TRAILS	C-
PORTS	B-
RAIL	B
ROADS	C+
SCHOOLS	B
SOLID WASTE	C
STORMWATER	C-

Georgia's stormwater infrastructure – drains, manholes, pipes, ditches, and more – has improved over the past five years. More localities are creating designated stormwater funding sources, as evidenced by the 44% growth in stormwater utilities since 2014. This increase in funding, a shift to integrated water planning, and the addition of volume reduction requirements in recent MS4 permits are the major factors in the slight grade increase. While this progress is significant, substantial funding needs remain. A limited stormwater program survey indicated a median of $6 per capita per year is spent on new or renovated stormwater infrastructure, much less than the $85 per capita need projected by the Environmental Protection Agency. Looking forward, Georgia's growing population is likely to continue to stress its stormwater management infrastructure and additional action will be needed to protect water quality in streams, rivers, and lakes.

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Recurring Work/Work Requests
Shoulder and Ditch Maintenance

26 Miles in 2017

Recurring Work/Work Requests
Stormwater Drain Cleaning & Repair

2,804 Cleaned and 66 Repaired in 2017