

Management of an Aged and Evolving MS4

















# History of Dunwoody Stormwater

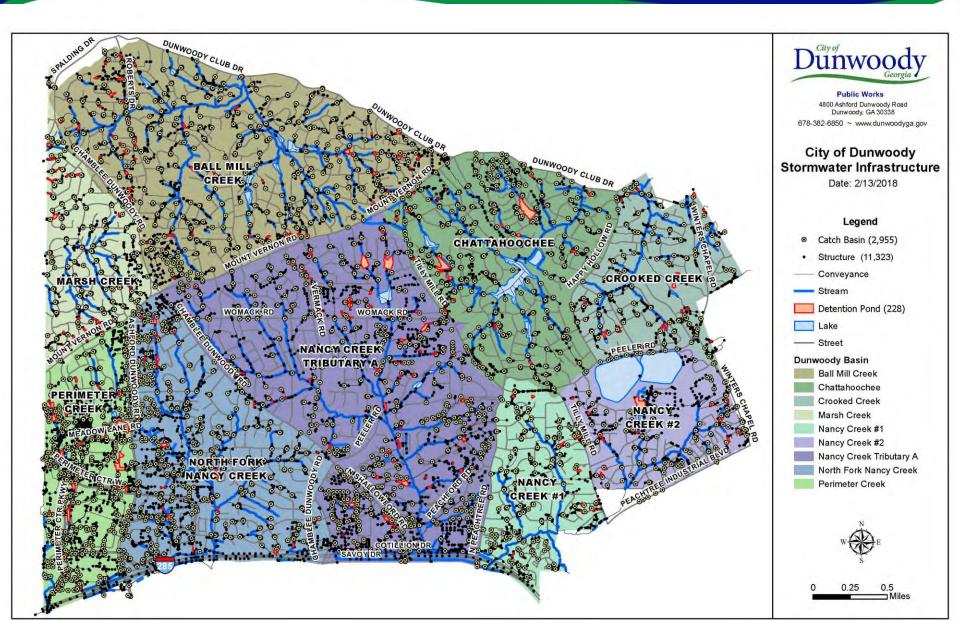
- City established December 2008
- Utility established March 2009
- No data provided from predecessor
- MS4 Requirements / GASB Statement 34
- Adopted a system needing significant maintenance





# BMP Who, What, When, Where?

- First challenge of many municipalities
- Inventory can be a helpful component of MS4
  - Make the inventory a tool not just a regulatory requirement



# Inventory evolving with maintenance needs

- MS4 Requirements require that the system is inspected periodically
- Revise Inspection Protocol if Needed
- Sights on BMPs and Standardized Condition Assessments

#### **Assessment Standardization**







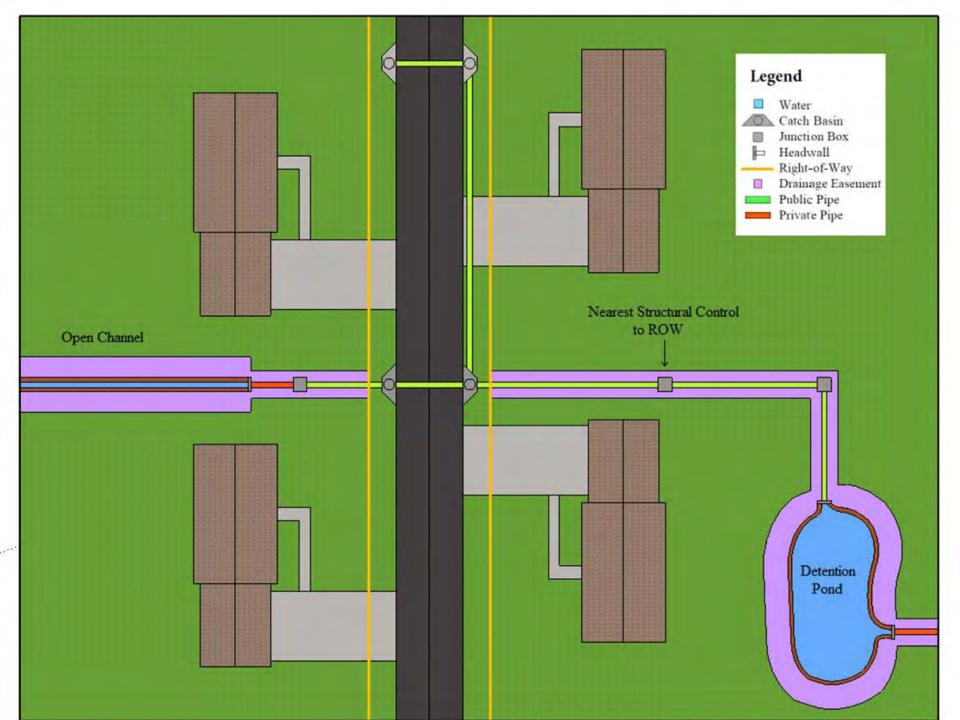
## **Ownership Determinations**

- Public vs Private
  - Controversial in residential areas
  - Variability among jurisdictions
  - Should correspond to a rate study
- Final plat review
- History of operations
  - If you touch it, you own it
- Be consistent Have a defined process

## **Extent of Service Document**

- Create a Document
- Approve by Council
  - What are adjoining MS4s doing?
- Update as Needed
- Website







#### New Phase 2 MS4 Permit Pond Inventory Requirements (Georgia)

- Annual update of inventory for public facilities
- Annual update of inventory for private since 2008 GSMM deadline
- Permittee choice for ponds that predate GSMM deadline

## New Phase 2 MS4 Permit Pond Maintenance Requirements

- Detailed Operation and Maintenance
  Procedures for Public Structures
  - Maintenance activities to be reported annually
- Detailed Operation and Maintenance Procedures for private structures completed post 2012 (previous MS4 Permit)
  - Permittee must either perform maintenance or
  - Permittee must have finalized maintenance agreement
  - Summary of maintenance agreements required in annual report

PONDS	Public		Private	
	Permittee	Other	Residential	Commercial
Pre-2008				
Inventory	Х	Х	optional	optional
Maintenance Agree.	n/a	x		
Inspection	Х	х		
Maintenance	x	х		
2008-2012				
Inventory	x	x	х	x
Maintenance Agree.	n/a	x	optional	optional
Inspection	x	x	х	х
Maintenance	x	х	optional	optional
Post-2012				
Inventory	х	Х	х	x
Maintenance Agree.	n/a	Х	х	х
Inspection	Х	x	х	х
Maintenance	х	х	x	x

## New Phase 2 MS4 Permit GI / LID Requirements

- Develop GI/LID Program
- Site Feasibility Evaluation Procedures
- Maintenance Procedures
  - Inspection (Who and When)
  - Maintenance (Who and When)
  - Documentation Methods
- Submit by February 15, 2020

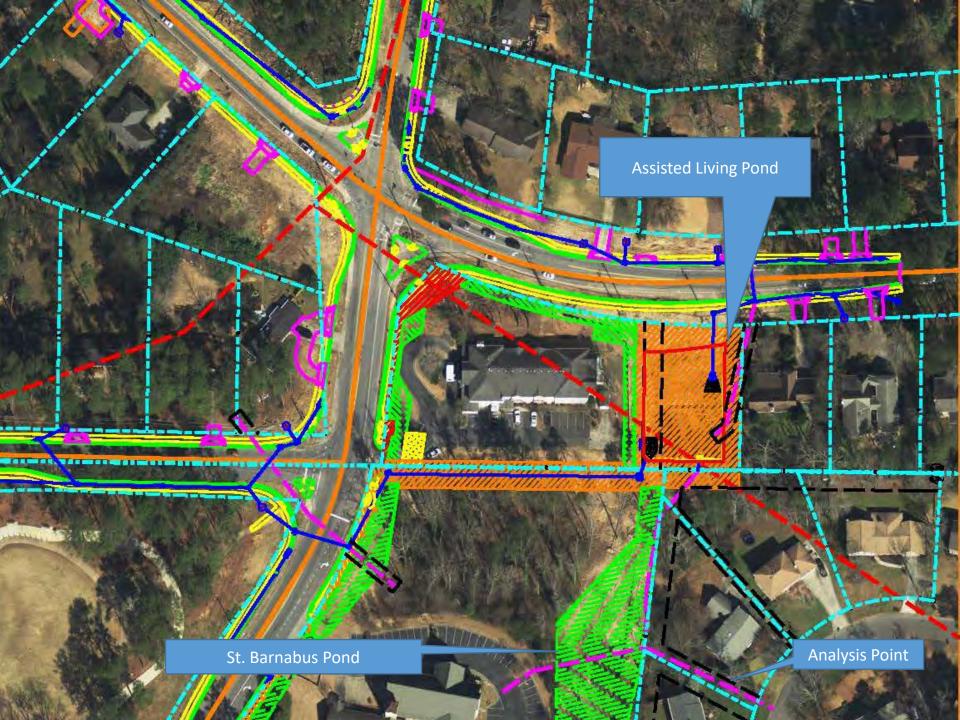
## GI / LID Inspection and Maintenance Requirements

- Requirement Begins 2020
- Applies to all GI / LID since 2012
  - Comply with submitted GI / LID Program
- Complete and report annually on permittee owned structures
- Implement submitted GI / LID program on private facilities

<u>GI/LID</u>	Public		Private	
	Permittee	Other	Residential	Commercial
Pre-2008				
Inventory				
Maintenance Agree.	optional	optional	optional	optional
Inspection				
Maintenance				
2008-2012				
Inventory				
Maintenance Agree.	optional	optional	optional	optional
Inspection				
Maintenance				
Post-2012				
Inventory	х	х	optional	Х
Maintenance Agree.	n/a	not specif.		not specif.
Inspection	х	х		Х
Maintenance	x	x		х

## Maximizing use of existing ponds

- Existing stormwater management facilities can be used to accomplish municipal projects
  - Intersection Projects (2)
  - Multiuse Paths / Sidewalks (3)
  - Parks Facilities (2)
- Typically requires maintenance, expansion and/or modification
- Smaller footprint and lower impact



### Questions?