

Management of an Aged and Evolving MS4

















History of Dunwoody Stormwater

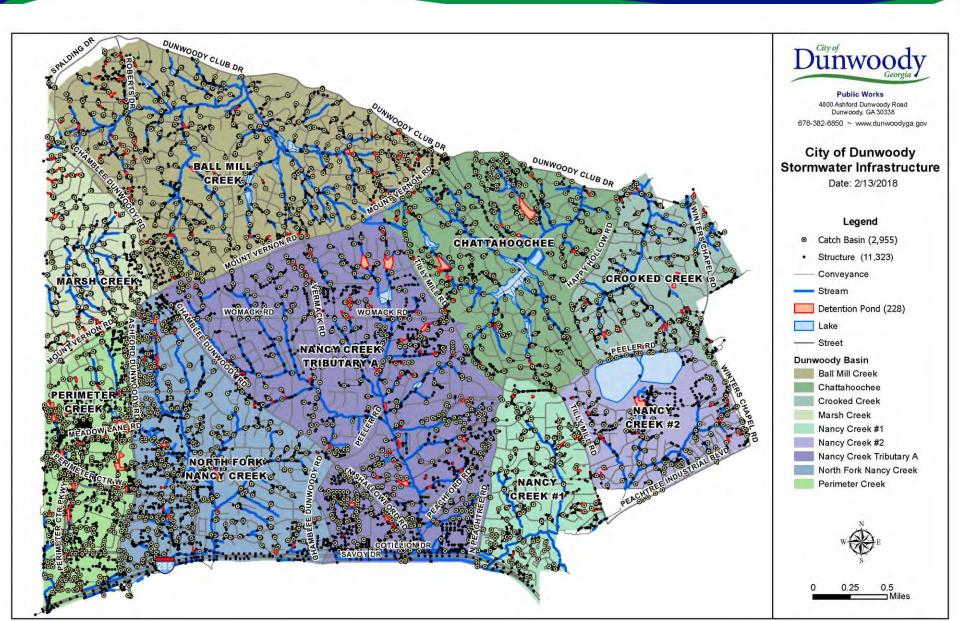
- City established December 2008
- Utility established March 2009
- No data provided from predecessor
- MS4 Requirements / GASB Statement 34
- Adopted a system needing significant maintenance





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







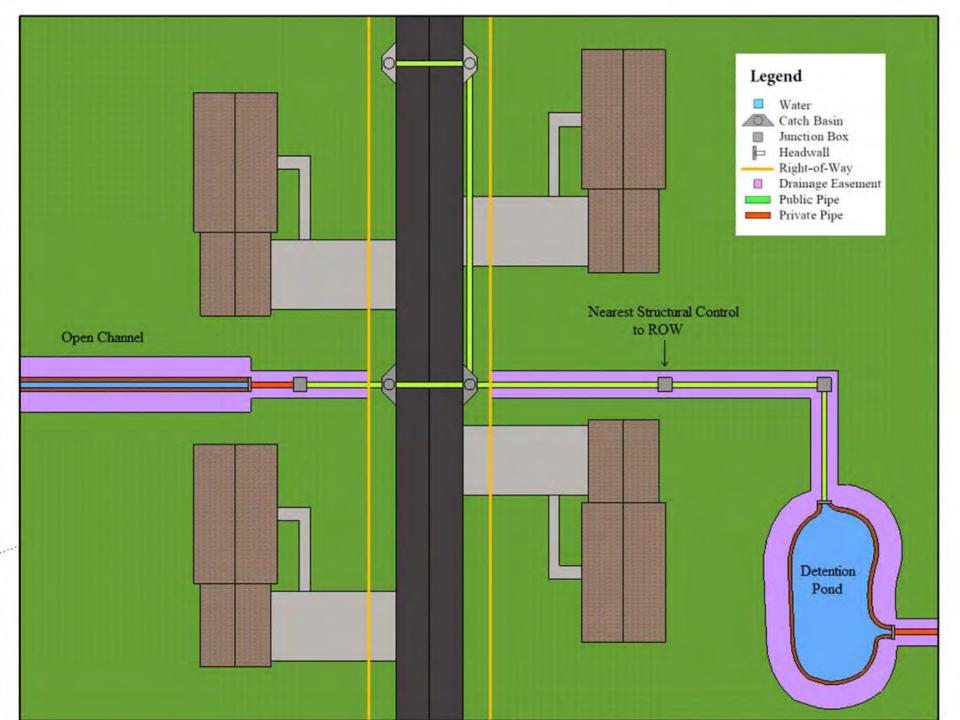
Ownership Determinations

- 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

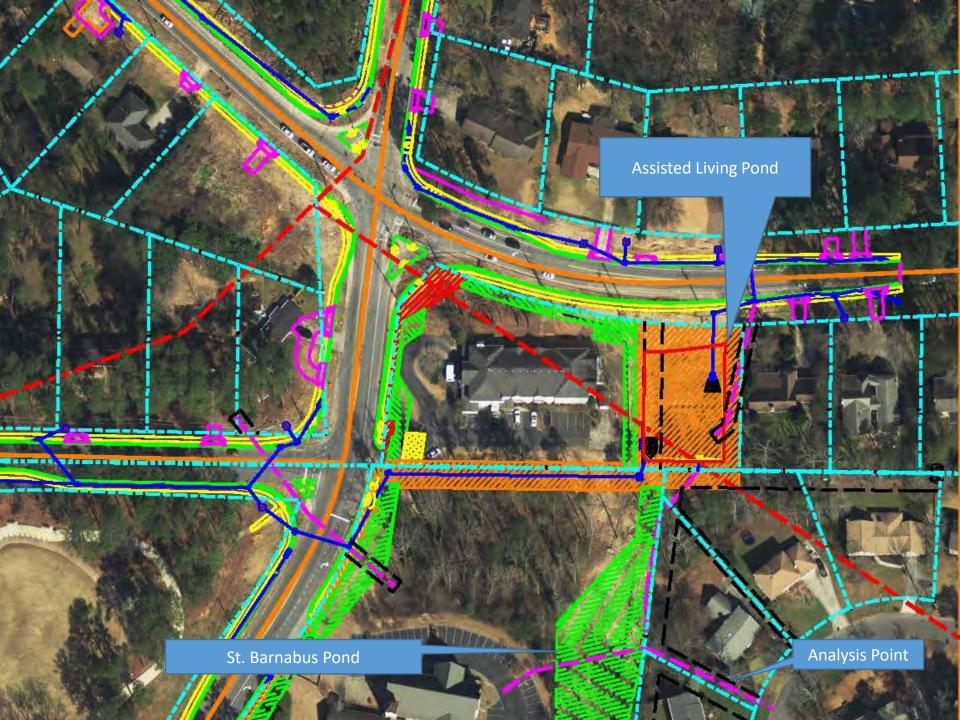
GI / LID Inspection and Maintenance Requirements

- 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?