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JERSEY WATERWORKS & CONFERENCES

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Unlocking the Potential of Stormwater Utilities: Perspectives and Progress in New Jersey



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Unlocking the Potential of Stormwater Utilities



<u>Agenda</u>

- Overview of Stormwater Utilities
 - Nathan Walker, Gannett Fleming, Inc.
- Panelist Introductions
 - Timothy Esberger NJ DEP Environmental Engineer
 - Kareem Adeem City of Newark Director of Water and Sewer Utilities
 - Victor De Luca Maplewood Twp Committeeperson
- Questions for Panelists

Questions from Audience

Drivers for Stormwater Management

- Aging infrastructure
- Flood mitigation
- Regulatory mandates
- Water quality
- Development pressure
- Drinking water supply protection









Funding a Stormwater Program

Primary Methods	Secondary Methods
General Fund	Inter-governmental Cooperation
Stormwater User Fee	Regional Planning
	Public Private Partnerships
	State/Federal Grants
	Foundation Grants
	Improvement Districts



	General Funds	User Fee
Who Pays?	Taxed properties	Developed properties
Basis of Contribution (\$)	Property value	Impervious cover
Credits for On-site Management	None	Consideration of services that offset the need for public services



Single-Family

Impervious: 3,525 SF

Eq. Residential Units: 1







<u>Industry</u>

Impervious: 9,083,226 SF

Eq. Residential Units: 2,577

Non-profit

Impervious: 66,284 SF

Eq. Residential Units: 19

<u>School</u>

Impervious: 1,345,949 SF

Eq. Residential Units: 382







Single-Family

Impervious: 3,525 SF

Eq. Residential Units: 1

Single-Family

Impervious: 789 SF

Eq. Residential Units: 1

Single-Family

Impervious: 17,154 SF

Eq. Residential Units: 1



Benefits	Challenges		
Distributes costs	New public policy		
Defined program of services	Community education		
Earning credits can reduce fee	Data and billing maintenance		
Stable revenue source	Distributes costs		





Tim Ebersberger New Jersey Department of Environmental Protection Bureau of NJPDES Stormwater Permitting

- Clean Stormwater and Flood Reduction Act (2019)
- NJDEP Stormwater Utility Guidance (2020)
- Feasibility Study for the Creation of Stormwater Utilities (2024)
- 319 Competitive Stormwater Grants (Ongoing)
- Ongoing assistance with interpretation of Act and Department guidance

Kareem Adeem City of Newark Director of Water and Sewer Utilities

- Stormwater Control Ordinance
- Pet Waste Ordinance
- Wildlife Feeding Ordinance
- Litter Control Ordinance
- Improper Disposal of Waste Ordinance
- Yard Waste Ordinances
- Private Storm Drain Inlet Retrofitting Ordinance
- Illicit Connection Ordinance



Victor De Luca Maplewood Township Committeeperson

Maplewood Leaders Signal Support For New Stormwater Utility

"We don't want to impose more fees on our residents, but the world is changing. Climate change is happening, infrastructure is aging, and we need to be able to keep our residents safe." — TC member Deborah Engel

Maplewood Township Committee members indicated that they support the creation of a Maplewood Storm Water Utility and a fee to support such a utility, in light of the increased occurrence of devastating storms and the finding that the town's infrastructure is lacking.



Existing Stormwater Infrastructure

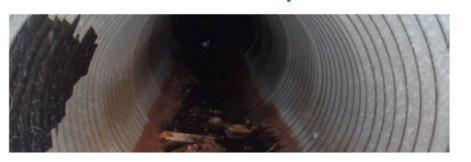
1,812 Storm Inlets



839 Storm Maintenance Holes



39.3 Miles Storm Pipes



80 Storm Outfalls & Discharge Locations



Stormwater Project Examples



Stream Erosion and Undermining at Oakland Road



Sinkhole at Dunnell Road near Memorial Park and Maplewood Train Station

Upcoming Stormwater Projects

Major Capital Projects		Estimated Cost	
1. Maple Terrace General Drainage Improvements		900,000	
Kendall Ave Drainage Improvements (Township is receiving a \$960,000 federal grant)	\$4	1,000,000	
3. Nelson Place Bank Stabilization	\$	400,000	
Capital Projects			
1. Burnett Terr. & Ivy Place Drainage Improvements	\$	250,000	
2. St. Lawrence Ave Drainage Repairs	\$	100,000	
3. Porter Ave Drainage Improvements	\$	75,000	
4. Boyden Ave Drainage Improvements	\$	75,000	
5. Meadowbrook Ave Drainage Improvements	\$	300,000	
6. Tiffany Place Drainage Improvements	\$	150,000	
7. GIS Update for NJDEP	\$	250,000	
Maplecrest Park Drainage Improvements	\$	100,000	

Long Term, Multiple Year Capital Projects

9. Drainage Improvements for Sump Pumps

1. Outfall Reconstruction Program \$1,000,000 over 5-year program

300,000/yr

Residential Impervious Areas





Source: New Jersey Department of Environmental Protection

Created: 2015 Accessed: August 2023

Questions for Panelists

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Questions from Audience

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New JWW Stormwater Utilities Subcommittee Resource!

Stormwater Utilities Can Facilitate Green Infrastructure

(Updated October 2024)

The Stormwater Utilities Subcommittee updated this memo to help towns understand the ways in which stormwater utilities can help them build green infrastructure. Take a look at the resources in this document, consider a stormwater utility, and help your community make a healthier New Jersey a reality!



THANK YOU!