Watershed Volume Reduction Rules: Ten Years Later

BCWMC TAC Meeting May 5, 2016

Steve Love, City of Maplewood Paige Ahlborg, Ramsey-Washington Metro Watershed District



Ramsey-Washington Metro

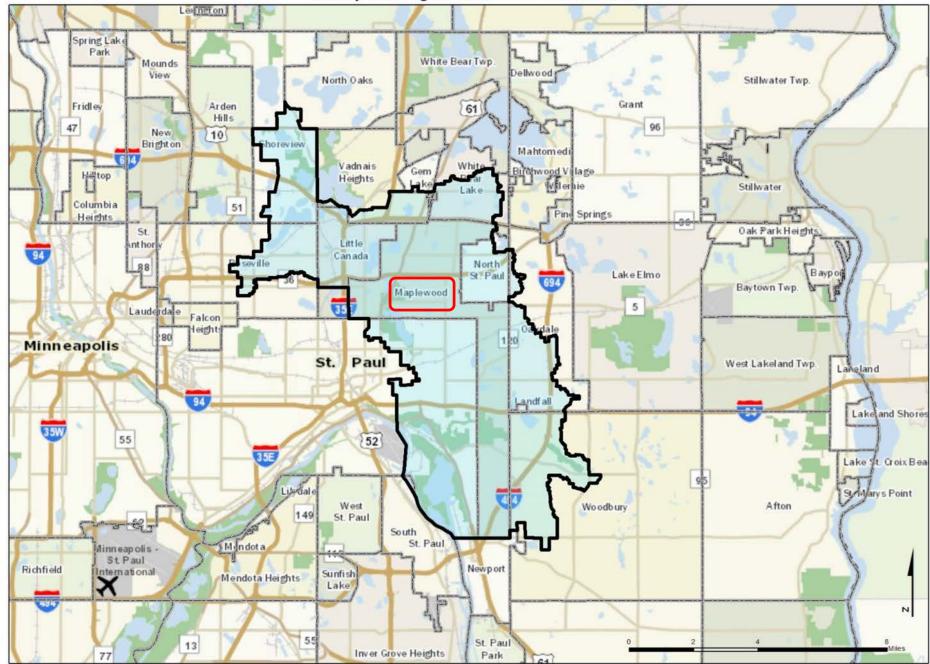
District

Presentation Outline

- Introduction to RWMWD
- History of Rules Process
- 2015 Rule Revisions

Compliance with New Rules City of Maplewood Projects

Ramsey-Washington Metro Watershed District



District Objectives & Process for New Rules

- Coordinate with CRWD and Joint TAC- establish commonality between shared entities
- Work with other local governments to improve water quality
- Provide for an effective and well run permitting program
- Reduce impact of runoff on our water resources



Rules and Standards (Adopted 2006)

- Stormwater Management
 - Rate Control
 - Volume Control
 - Water Quality
 - Lifetime Maintenance Agreements
- Erosion and Sediment Control
- Wetland Management
- Flood Protection



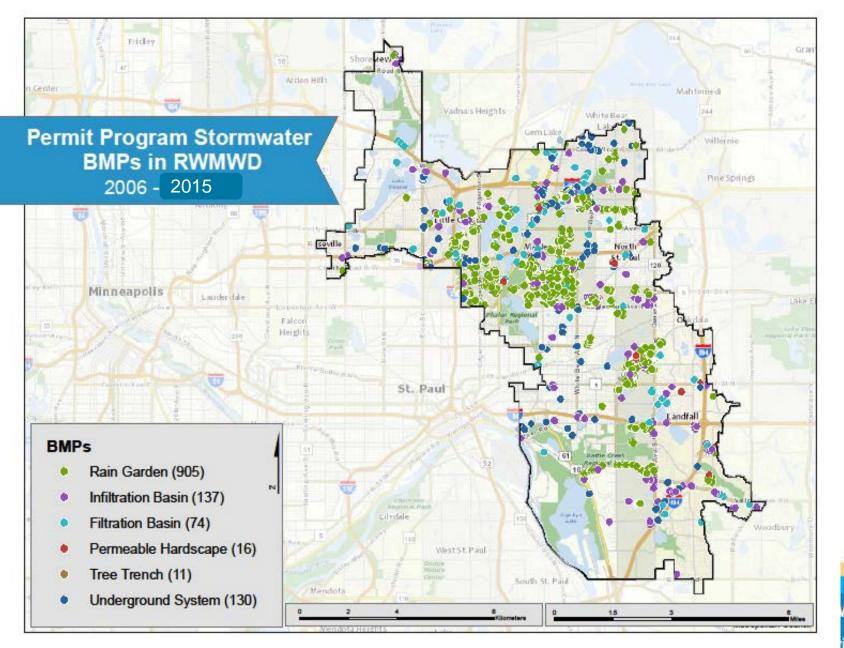
What was the Standard?

Developments must reduce runoff volumes in the amount equivalent to 0.9 inches from the impervious areas of the site.

Alternative Compliance Sequencing

- Partially Meet Onsite
- Offsite or Banked Credits
- Stormwater Impact Fee
- Cost Cap for Linear Projects





Netro

2014 TAC Discussions: Are the Rules Still Accurate?

- 0.9" standard- less than MIDS
- 70% Filtration Credit- is it enough or too much?



Ramsey-Washington Metro



District

April 2015 Rule Revisions

• Volume reduction standard increased to capture 1.1 inch of runoff from the impervious surfaces

• Volume reduction credit standard for filtration BMPs (55%) and enhanced filtration (80%) added to rules



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District



TAC Concerns with Proposed Revisions

- Not fully adopting MIDS
 - Concern with linear projects not having a lower standard
- Added project cost for constructing larger filtration or IES systems

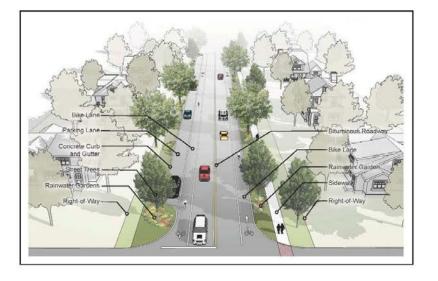


Compliance Thus Far with 2015 Revisions

- 34 Stormwater Management Permits Approved
 - 7 linear projects
 - 4 applied cost cap- all provide 0.6-0.8" volume reduction onsite through filtration
 - 1 payment to stormwater impact fund
 - 1 used banked credits
 - 1 provided excess credits for future project







City of Maplewood, Minnesota Living Streets Policy

By: Michael Thompson, P.E. Director of Public Works / City Engineer

Adopted by the City Council on January 28, 2013



City of Maplewood, MN Living Streets Policy Complete + Green = Living

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Maplewood Living Streets & Stormwater Treatment

BCWMC May 5, 2016

Guiding Documents 2030 Comprehensive Plan Living Streets Policy Compliments and builds upon the Comprehensive Plan High level goals Encourage people to travel by walking or bicycling Enhance the safety and security of streets Create livable neighborhoods Maximize the infiltration of stormwater Improve the quality of stormwater runoff Enhance the urban forest Improve the aesthetics of streets within the community Reduce life cycle costs



Review

Girl Scout street safety

Luka Daitar

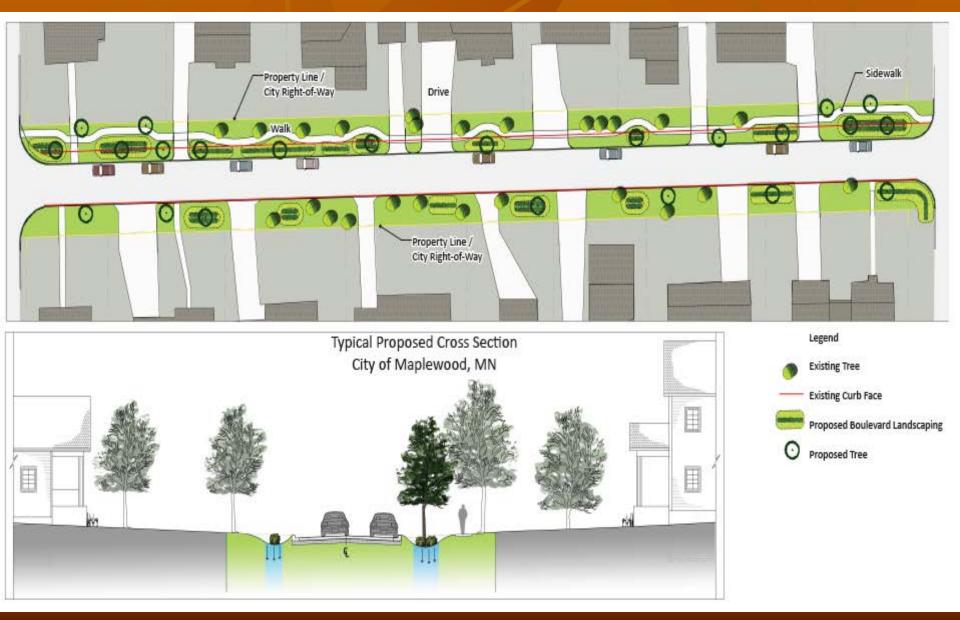
after reading through and a change "

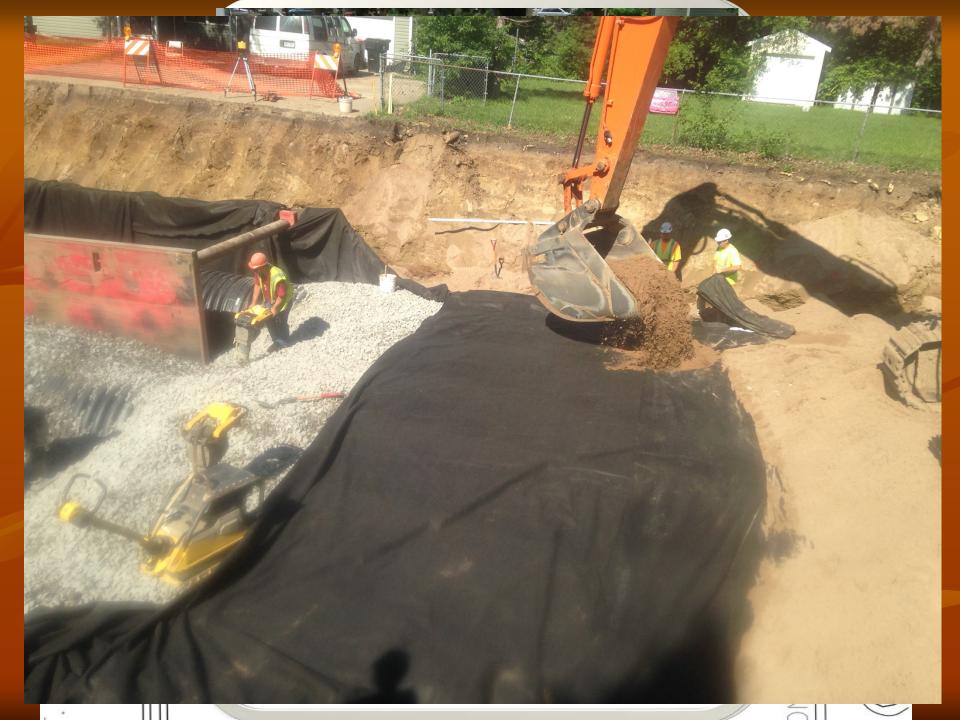
Leverage Local Partners and Supporters!!

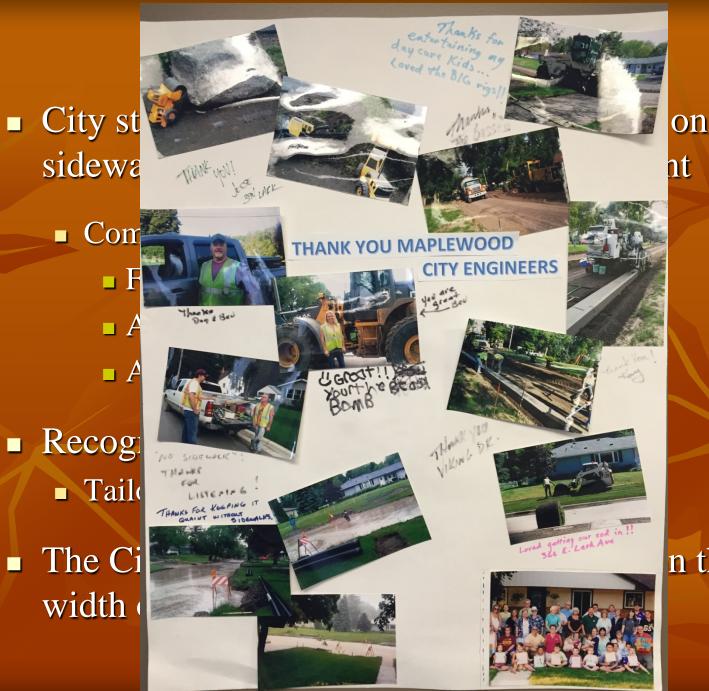
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Lessons Learned







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Pavement Rehabilitation Projects

- General characteristics of a pavement rehabilitation project
 - Water mains and sanitary main in good condition
 - Concrete curb and gutter and storm sewer infrastructure in good condition
 - Pavement condition in bad shape
- Common rehabilitation methods
 Mill and overlay
 Full depth reclaim

Current Street Conditions Lakewood-Sterling Area



Lakewood Drive Mamie Avenue
Full Depth Reclaim – No water quality requirements

Current Street Conditions Beebe Road





Near Track Field At Southwind Road
Full depth reclaim – No water quality requirements
New trail – Needs to meet water quality requirements
Utilize banked credits or pay into watershed fund

Resident Rain Gardens (Design 2011-Current)

Simplified Design
Fewer Species
Larger Clumping





Incentive programs Resident Rainwater garden – EUF credit of 30% per month





Questions?

steve.love@maplewoodmn.gov (651) 249-2404 paige.ahlborg@rwmwd.org (651) 792-7964