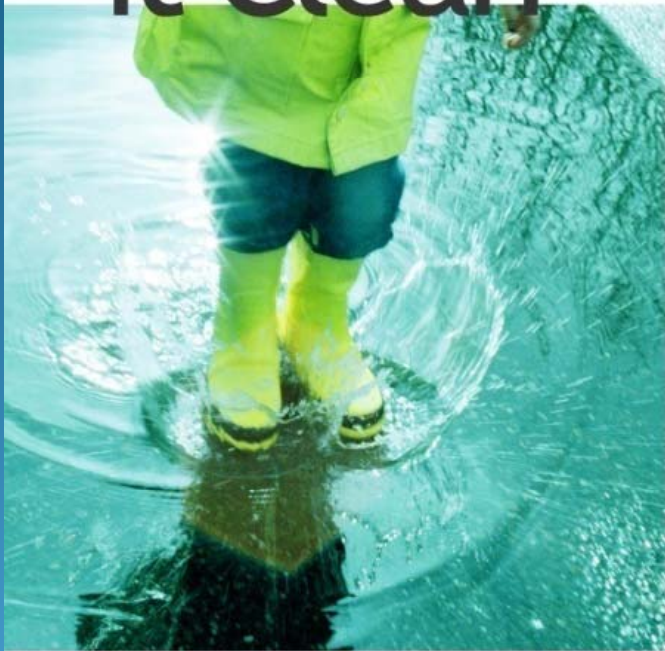


Keeping
it Clean



StormWater
M A N A G E M E N T

Storm Water Management in Rochester

August 2008

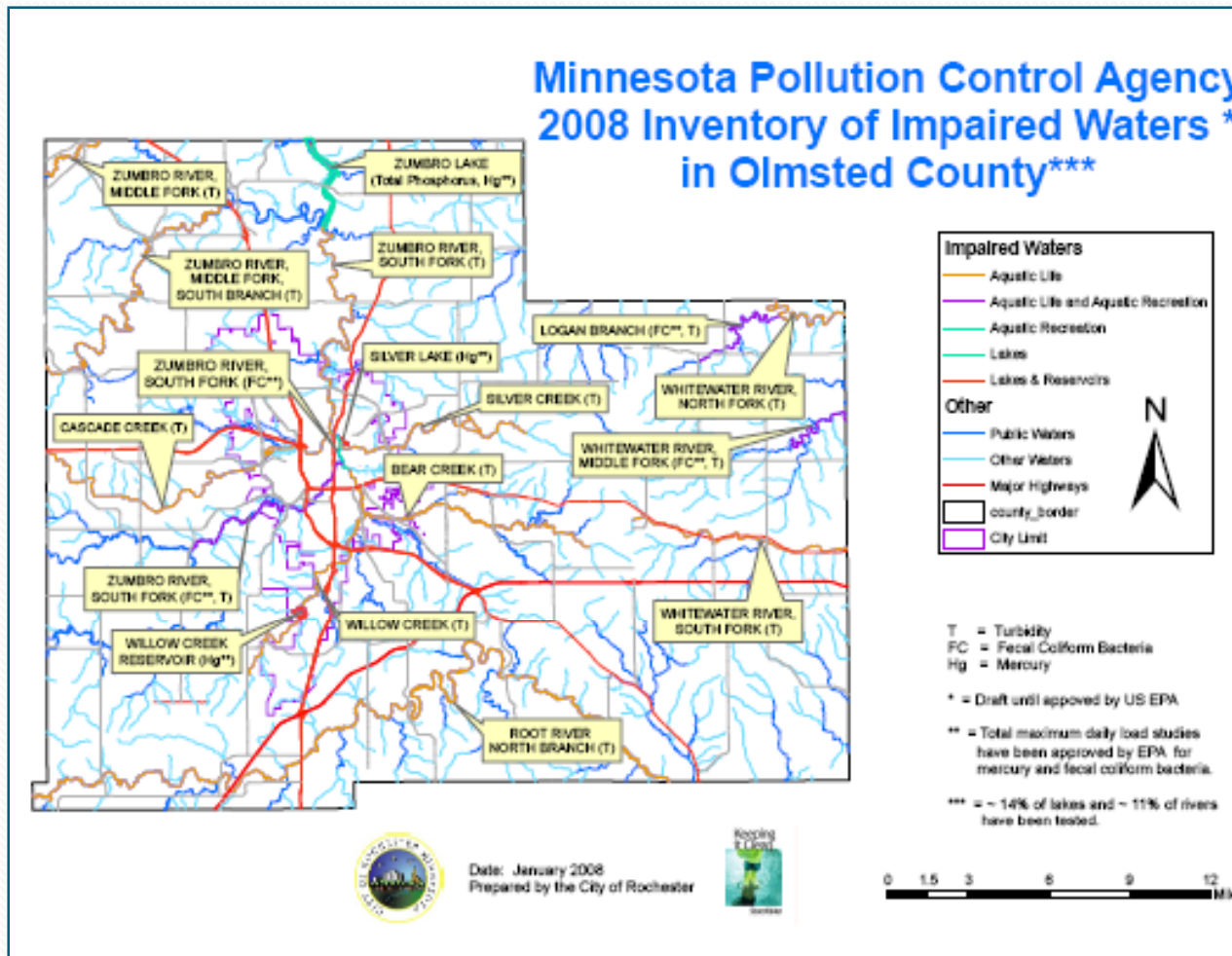


Rochester's SWM Program is Structured to Comply With its Small MS4 General Permit

“The primary goal of this permit is to restore and maintain the chemical, physical, and biological integrity of waters of the state through management and treatment of urban storm water runoff.”

NOTE: The Construction Storm Water and Industrial Storm Water Permit programs are separate.

Local Decline in Water Quality





Rochester Urbanizing Area Permit Holders

- City of Rochester
 - Olmsted County
 - Cascade Township
 - Haverhill Township
 - Marion Township
 - Rochester Township
 - MnDOT District 6
 - Rochester Community and Technical College
- (No other permittees in the Zumbro River Watershed)



The Permit is “Us”

- We All Contributes to Storm Water Pollution
- Only OUR Changes in Behavior Will Restore Water Quality
- Every Rochester Resident and Visitor Must Do Their Part to Help Reach Rochester’s Permit Goals



Who's Helping Attain the Goals of Rochester's SWPPP?

- City Staff
 - Public Works (97)
 - Park and Rec
 - Building Safety
 - Finance
 - Fire Department
 - Human Resources
 - Information Systems
 - Police Department
 - Public Utilities
- Active Partners
 - Clear Channel and Cumulus Radio
 - Community Work Service
 - KAAL, KTTC and FOX TV
 - Master Gardeners
 - Mn Dept. of Transportation
 - Olmsted County
 - Post Bulletin
 - Quarry Hill Nature Center
 - Rochester Area Builders
 - Rochester Community & Technical College
 - RNeighbors
 - Rochester Rowing Club
 - Summer of Service
 - Zumbro Watershed Partnership



Permit Structure

- Self-Assessment (Maximum Extent Practicable)
- Permit Application
- Storm Water Pollution Prevention Plan (SWPPP)
 - Six Minimum Control Measures (MCMs)
 - Other Requirements
 - Nondegradation Review
- Administered by the MPCA



MCM 1 – Public Education

- Press releases, TV and radio interviews, newspaper articles, newsletter and magazine articles, bill inserts, web sites, direct mailings, workshops and staff training sessions, presentations, posters, open houses, signs, kiosks, displays, etc.
- Rochester Urbanizing Area education workgroup
- ~2.2 million contacts in 2007



MCM 2 – Public Participation

- Public meeting on annual report
- Promote volunteer opportunities on the Storm Water web site
- Citizen complaint intake (~300 – 400 per year)
- Activities coordinated with partner organizations



MCM 2 – Public Participation

- Activities:

- Adopt a Highway litter collection (MnDOT, Olmsted Co.)
- Adopt a Park litter collection (Park and Rec)
- Adopt a River litter collection (DNR)
- *A Litter Bit Better!* litter collection (RPW, et al)
- Arbor Day elementary education activity (RPU)
- Bloom Day neighborhood plantings (Slatterly Park Neighborhood Association)
- Care Fest calcareous fen vegetative management (local churches)
- Children's Water Festival (QHNC)



MCM 2 – Public Participation

- Activities (continued):
 - Citizen Lake Monitoring Program (MPCA)
 - Citizen Stream Monitoring Program (MPCA)
 - Community Work Service/Sentence-to-Serve litter collection (Olmsted Co.)
 - Door Hanging (Neighborhood Associations, Individuals)
 - Earth Day/Spring Thing displays and workshops (QHNC)
 - Farmer's Market booth (Master Gardener's)
 - Olmsted County Fair booths (Master Gardener's, ZWP)
 - Partners in Planting tree coupons(RPU)
 - Rain Barrel Program – in development (SWCD/RPU)



MCM 2 – Public Participation

- Activities (continued)
 - RNeighborWoods tree planting & citizen forester training (RNeighbors)
 - Rochester Home Show booth (ZWP)
 - Rochester Raingarden Project – in development (RPW and Blue Thumb)
 - Rochesterfest Parade litter bag distribution (RNeighbors)
 - Silver Lake buffer litter collection (Rochester Rowing Club)
 - Summer of Service storm drain marking, door hanger distribution, litter collection (ISD 535)
 - Transportation Fair (RPW)



MCM 3 – Illicit Discharges

- GIS storm sewer system map
- WQPP elimination of aging septic systems
- Collection of RV sewage at the RWRP Sewage Pump Out Station
- Investigation and correction of illicit discharge reports
- Dry weather outfall inspections
- Sanitary sewer overflow responses
- Inspection and correction of illicit connections
- Hazardous spill response and containment (RFD)



MCM 4 – Construction Site SWM

- ESC plan approval (part of the grading plan)
- ESC inspections at subdivisions, commercial sites and individual residential lots
- ESC enforcement actions
- Respond to ESC complaints
- Implement construction storm water permit requirements for City projects



MCM 5 – Post-Construction SWM

- Provide planning referral comments for all development types on storm water management issues
- Approve grading plans for subdivisions, commercial sites, and individual lots
- Issue grading permits
- Approve construction plans
- Oversee construction of storm water management system BMPs (ponds, storm sewers and associated infrastructure, drainage ways, bank stabilization, buffers, etc.)



MCM 5 – Post-Construction SWM

- 330 total storm water treatment ponds in Rochester:
 - 81 City
 - 15 Easement
 - 80 Transition
 - 122 Private
 - 3 County
 - 29 State
- Excludes Flood Control Reservoirs
- Also have 43 “other storm water management BMPs” and 146 “other water features” (public and private)



MCM 6 – Good Housekeeping

- Street sweeping
- Inspection and maintenance of:
 - Catch basins
 - Storm sewers, culverts, inlets/outlets, and outfalls
 - Ditches and drainage ways
 - Ponds and their associated infrastructure
 - Other (non-pond) storm water BMPs
- Facility audits, develop O & M plans, operational improvements



Other Permit Elements

- Total Maximum Daily Loads
 - *Fecal coliform* bacteria (Silver Lake buffer, pet waste education, elimination of goose feeding, Canine park buffer project)
 - Mercury (assessment only)
 - Monitor development of and provide to new TMDLs
- Discharges to waters with restricted discharges
 - Assessed as part of the Nondegradation Review
 - ROPD reviews associated with the Decorah Edge
- Source water protection coordination with RPU



Miscellaneous

- Ongoing reporting & record keeping
- The Nondegradation Review submitted to MPCA in 8/06 (no MPCA response to date)
- The new permit application and SWPPP submitted to MPCA 6/06 was approved 4/9/08
- Nondegradation Rule development
- Storm Water Utility budget management (~\$3.1 million/yr)



Upcoming Activities

- Computer-based storm water orientation module for new employees
- Develop procedures: pond acceptance, pond cleaning, encroachment response, cost accounting, IDDE response, etc.
- Update SWMP
- Cascade Meadow Wetland Science Center



Questions or Comments?

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