



City of Rochester

Annual Progress Report: Stormwater Permit Activities

January 1 to December 31, 2015






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Public Works Department
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Stormwater Runoff

Stormwater flows...

- to catch basins
- through storm sewers
- and into the creeks, rivers, and lakes...often without treatment.







Stormwater does not go to the Water Reclamation Plant for treatment!





Rochester's MS4 Permit

- Cities that own or operate municipal separate storm sewer systems (MS4) in urbanized areas play a key role in preventing or reducing the negative impacts of stormwater runoff.
- The City of Rochester is required by law to manage stormwater runoff in order to restore and protect surface waters.
- Holding an MS4 Permit allows the City to discharge stormwater to public waterways.



Annual Report Requirements

- Status of compliance with permit conditions
- Appropriateness of the Best Management Practices (BMPs)
- Progress toward achieving Measurable Goals
- Changes in BMPs and Measurable Goals
- Upcoming activities
- Opportunity for public input

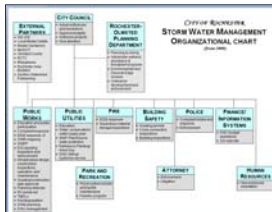
Permit Progress Status

- Ongoing reporting & record keeping
- We are not relying on other entities to satisfy any of our permit requirements
- Status of compliance with permit conditions
 - Acceptable, but commitments remain to be met
- Best Management Practices
 - Appropriate
- Progress toward achieving Measurable Goals
 - Appropriate
- Changes in BMPs and Measurable Goals
 - None

Who Does This Work?

- City Staff
 - Public Works
 - Building Safety
 - Finance
 - Fire Department
 - Human Resources
 - Information Systems
 - Police Department
 - Rochester Public Utilities



Who Does This Work?


- Collaborating Organizations
 - Community Work Service
 - Houck Advertising
 - ISD 535 Summer of Service
 - Individual volunteers
 - KAAL TV
 - KIMT
 - KTTC/KXLT/CW TV/MeTV
 - Master Gardeners
 - Minnesota Department of Transportation
 - Olmsted County
 - Rochester Area Builders
 - Rochester Community & Technical College
 - Rochester Garden and Flower Club
 - RNeighbors
 - Rochester Post Bulletin
 - Saint Mary's University of Minnesota - Cascade Meadow
 - Townsquare Media of Rochester
 - Zumbro Watershed Partnership

What Do They Do?


- MCM 1 – Public Education
- MCM 2 – Public Participation
- MCM 3 – Illicit Discharge Detection
- MCM 4 – Construction Site Stormwater Management
- MCM 5 – Post-Construction Stormwater Management
- MCM 6 – Good Housekeeping
- And related permit duties

See the "By the Numbers" handout

MCM 1 – Public Education Highlights




Stream Bank Marking



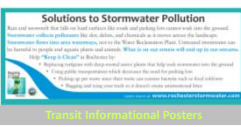
Presentations & Info Booths

2015 Education Stats:

- Presentation – 7,466 & Participation Attendees
- Handouts – 15,981



Interpretive Signage at Stone Lake



Solutions to Stormwater Pollution


MCM 2 – Public Participation Highlights

- *A Litter Bit Better!*: 2,937 volunteers; 239 groups; 33,880 lbs of litter; 5,300 acres
- Demonstration rain gardens: 3 residential, 1 community, 1 school
- RNeighborWoods: 496 trees; 446 volunteers; 66 citizen foresters trained





MCM 3- Illicit Discharge Highlights

- 10 illicit discharge reports
- 0 sanitary sewer overflow incidents
- RFD responded to 238 accidents to contain hazardous material spills


MCM 4 – Construction Site Stormwater Management Highlights


- 420 individual lot Erosion & Sediment Control (ESC) inspections involved 102 subdivisions and 70 builders
- 657 ESC inspections of commercial sites, subdivision developments, and city projects (88 total sites)




Public Works Staff on Inspection

MCM 5 – Post-Construction Stormwater Management Highlights

- Reviewed 87 commercial and residential subdivision grading and stormwater management plans
- Projects are reviewed for compliance with City standards and ordinances, as well as MPCA water quality rules



Grading and Stormwater Management Plan Review



MCM 6 – Good Housekeeping Contracted Services



High mowing a stormwater pond



High mowing a drainage way



MCM 6 – Good Housekeeping Contracted Services



Brush cutting by hand clearing



Powerline brush cutting vegetation



MCM 6 – Good Housekeeping In-House Maintenance



Storm sewer replacement



Street sweeping



Storm sewer repair



MCM 6 – Good Housekeeping In-House Maintenance



Stormwater pond sediment removal



Infrastructure inspection



Removal of EOC



Ditch repair



MCM 6 – Good Housekeeping In-House Maintenance



Stormwater pond sediment removal



Infrastructure inspection





Ditch repair





Stormwater pond sediment removal







Total Maximum Daily Loads

- TMDLs exist for fecal coliform and turbidity on the Zumbro River and tributaries
- There will soon be TMDL for phosphorus
- City is assigned a waste load allocation (WLA) for pollutants
- Must track progress toward meeting WLA through implementation of best management practices (BMPs)
- Analysis shows in-place BMPs are effective



2015 Program Additions and Highlights

- Three projects were constructed to address erosion and water quality:
 - Emerald Hills Ravine Stabilization
 - Willow Hills Pond No. 8 Rehabilitation
 - Baihly Woods Ravine Stabilization (in construction)
- Initiated Ultra-Urban BMP Project for Downtown development through Federal 319 Grant
- New GIS Specialist/SWUF Coordinator – Christy Shostal
- Improved utilization of GIS to more fully track development and associated water quality impacts
- Continued development of ordinances for:
 - MCM 4: Construction Site Stormwater Management
 - MCM 5: Post-Construction Stormwater Management
- Implemented analysis of waste loads related to TMDLs in the Zumbro River



Public Input

- Presentation, By the Numbers Handout & Annual MPCA report will be posted at www.rochesterstormwater.com
- Questions/Comments?