

Construction, Industrial & Municipal Stormwater Permits & SWPPPs



Minnesota Pollution
Control Agency

1 of 33
Permit No: MNR040000

**GENERAL PERMIT
AUTHORIZATION TO DISCHARGE STORM WATER
ASSOCIATED WITH MUNICIPAL SEPARATE STORM SEWER SYSTEMS
UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION
SYSTEM/STATE DISPOSAL SYSTEM PERMIT PROGRAM**

EFFECTIVE DATE: June 1, 2006 **EXPIRATION DATE:** May 31, 2011

In compliance with the provisions of the Clean Water Act, as amended, (33 U.S.C. 1251 et seq.; hereinafter, the "Act"), 40 CFR 122, 123, and 124, as amended, et seq.; Minnesota Statutes Chapters 115 and 116, as amended, and Minnesota Rules Chapter 7001.

This permit establishes conditions for discharging **Storm Water** and specific other related discharges to **Waters of the State**. This permit is required for discharges that are from **Small Municipal Separate Storm Sewer Systems**, as defined in this permit.

Upon approval by the **Commissioner** applicants who submit a completed application in accordance with the requirements of this permit, are authorized to discharge **Storm Water** from **Small Municipal Separate Storm Sewer Systems**, under the terms and conditions of this permit.

Signature: _____

Sheryl A. Corrigan
Commissioner
Minnesota Pollution Control Agency

Issuance Date: 3/3/06

wq-strm7-82

Stormwater Module 2
Minnesota Pollution Control Agency

Training goals

After completing this module, you will:

- ❑ Recognize the structure of MPCA's stormwater program
- ❑ Be familiar with the language of each permit
- ❑ Identify what SWPPPs are and be familiar with what they contain

MPCA's stormwater program has three components

Municipal



Construction



Industrial



MPCA's stormwater program has three components

	Phase I	Phase II
Municipal	Minneapolis/St. Paul - individual permits	~230 general permits for cities, townships, counties plus Mn/DOT, universities, prisons, military, etc.
Construction	Disturbing >5 acres; ~900 general permits/yr	Disturbing >1 acre; ~4000-7000 general permits/yr
Industrial	10 industrial categories; ~2000 general permits/yr	Allows more exclusions; Municipally-owned industrial facilities (hwy shops) now require coverage

Municipal Separate Storm Sewer Systems (MS4s)

The following slides present **permit language** that applies to Phase 2 designated MS4s.

Phase 1 MS4s include St. Paul and Minneapolis, both of which are covered under individual permits.



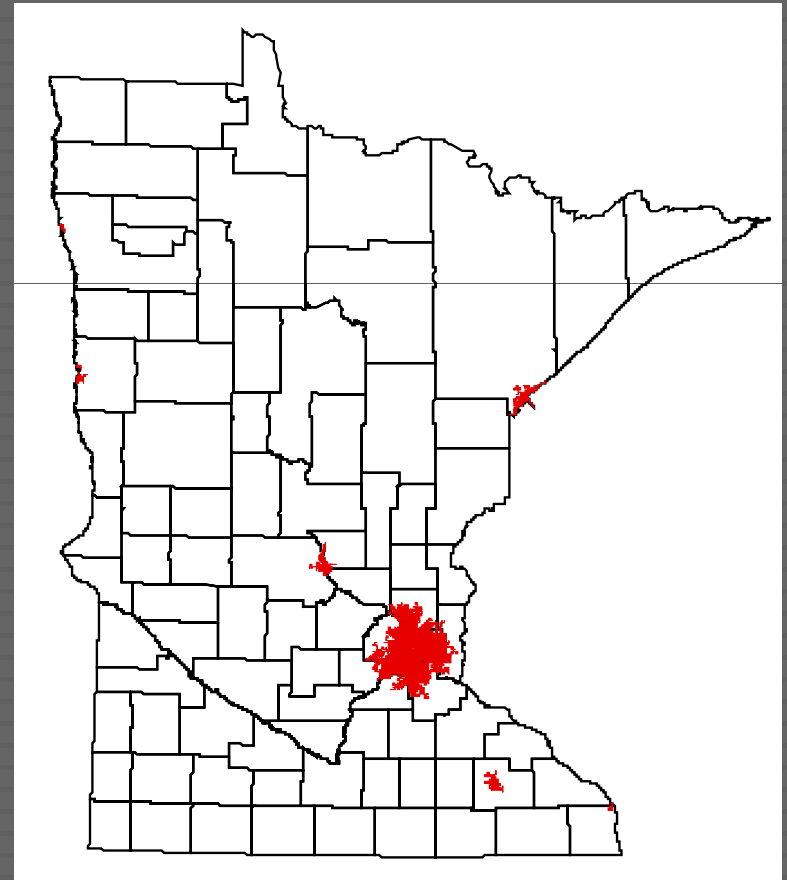
What is an MS4?

A conveyance system designed to transport stormwater

- ❑ Does not include wastewater or POTW
- ❑ Owned by a public entity

Automatic designated MS4s require permit coverage

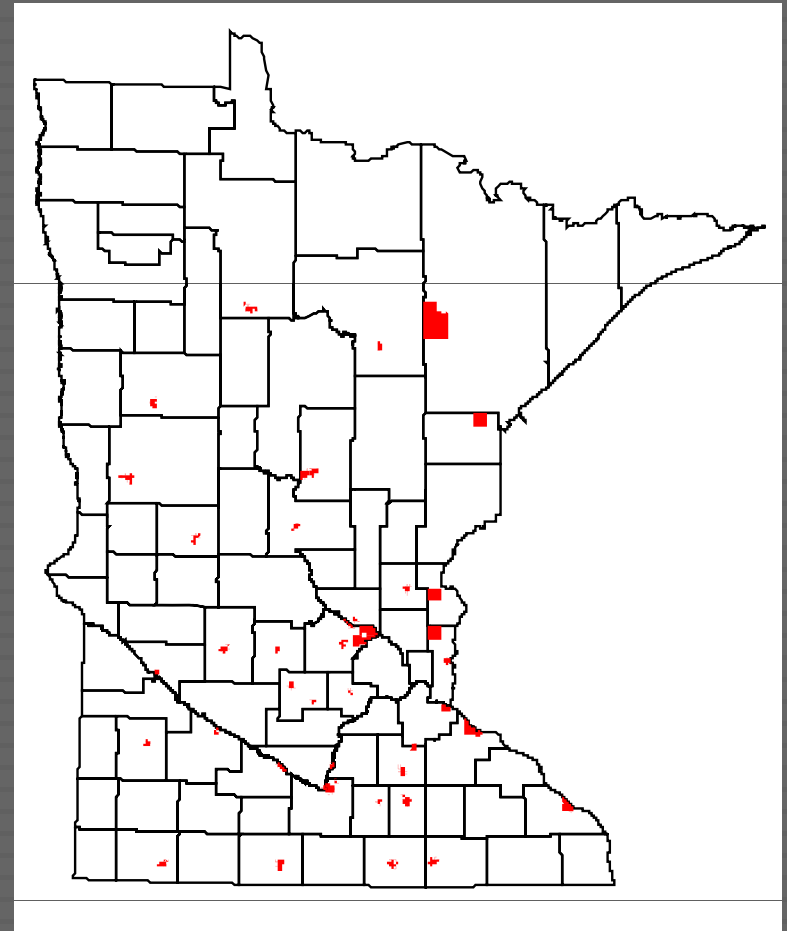
- MS4's located fully or partially within an "urbanized area" as defined by EPA/U.S.Census Bureau
- Universities, highway departments, prisons and any other public operator of a storm sewer system that is fully or partially within an urbanized area



MPCA designated MS4s require permit coverage

Small MS4's located outside of an urbanized area with a

- Population at least 10,000 and a population density of at least 1000 per sq mi
- Population of at least 5,000 and discharging to an impaired or Outstanding Resource Value water

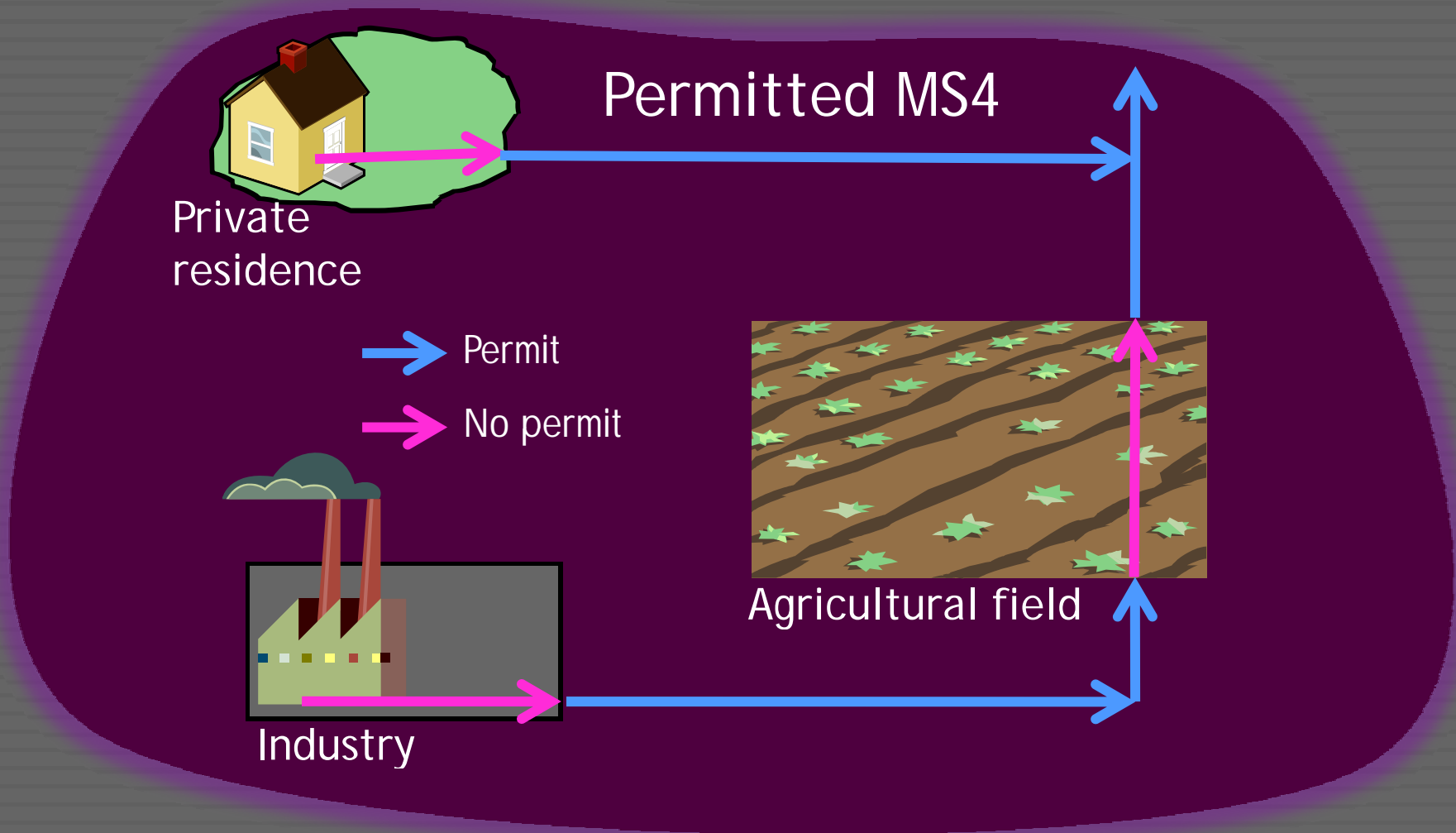


Not all municipalities (MS4s) require permit coverage

Entity: Publicly-owned conveyance	Within urban area ¹	Outside urban area
	Permit required?	
County/state highway, etc.	Yes	No
U of M, community college, etc.	Yes	No
Watershed organization	Yes	No
Cities, townships	Yes	No
Designated by MPCA	-	Yes

¹ As defined by U.S. Census Bureau

Private conveyances **not** covered (even if they discharge to a public conveyance)



The MS4 General Permit

Goals:

- Maintain water quality standards where there is compliance
- Help bring waters that do not meet water quality standards into compliance

Accomplished through a

Storm Water Pollution Prevention Program ⇒

Storm Water Pollution Prevention Program (SWPPP)

- Submitted with permit
- Includes information on best management practices (BMPs) designed to reduce stormwater discharges to the maximum extent practicable (MEP)

BMPs are addressed through
six minimum control measures ⇒

Six minimum control measures

1. Public education and outreach
2. Public participation
3. Illicit discharges
4. Construction
5. Post-construction
6. Pollution prevention (P2) / good housekeeping

Each minimum control measure has required BMPs

Example: **Public Education and Outreach** has 10 separate BMPs that must be addressed in SWPPP

Key to Unique BMP ID Numbers	Required BMP Title	Permit Reference
1a-1	Distribute Educational Materials	V.G.1.a
1b-1	Implement an Education Program	V.G.1.b
1c-1	Education Program: Public Education and Outreach	V.G.1.c
1c-2	Education Program: Public Participation	V.G.1.c
1c-3	Education Program: Illicit Discharge Detection and Elimination	V.G.1.c
1c-4	Education Program: Construction Site Run-off Control	V.G.1.c
1c-5	Education Program: Post-Construction Stormwater Management in New Development and Redevelopment	V.G.1.c
1c-6	Education Program: Pollution Prevention/Good Housekeeping for Municipal Operations	V.G.1.c
1d-1	Coordination of Education Program	V.G.1.d
1e-1	Annual Public Meeting	V.G.1.e
	Additional BMP Summary Sheet (Copy as Necessary)	

Each required BMP must be discussed in a BMP summary sheet

- Each summary sheet contains
 - Description of BMP
 - Measurable goals
 - Timelines for implementation
 - Person(s) responsible for implementation
- MS4s can add additional sheets
- Must submit annual report which assesses progress toward meeting the SWPPP

The construction permit



Construction permits requiring permit coverage

1. One acre or more in size
2. Part of a common plan that is one acre or more in size
3. Less than one acre, but MPCA determines the project a risk to water resources



Stormwater Pollution Prevention Plan

SWPPP

- ❑ Identifies knowledgeable person to oversee project
- ❑ Incorporates design and activity requirements
- ❑ Discusses location and type of temporary/permanent erosion prevention and sediment control BMPs
- ❑ Includes site map
- ❑ Identifies locations of areas
 - ❑ not to be disturbed
 - ❑ where construction will be phased to minimize duration of exposed soil areas
 - ❑ where surface waters and existing wetlands will receive storm water runoff
- ❑ Includes information on final stabilization methods

The industrial permit

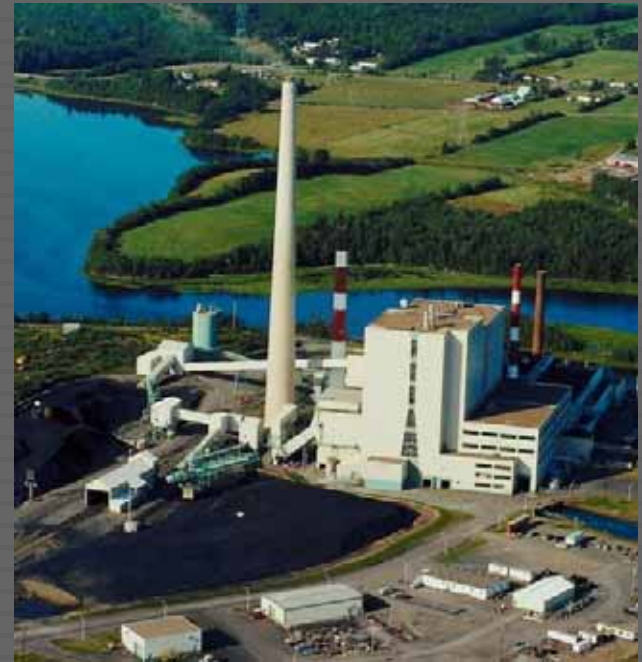


11 categories of industrial activity

1. Facilities with effluent limitations
2. Manufacturing
3. Mineral, metal, oil and gas
4. Hazardous waste, treatment, or disposal facilities
5. Landfills
6. Recycling facilities
7. Steam electric plants
8. Transportation facilities
9. Treatment works
10. Construction activity*
11. Light industrial activity

Industrial permit

- New industrial general permit will replace the current expired general permit (2008 or 2009)
- Requires a Storm Water Pollution Prevention Plan (SWPPP) based on BMPs before submitting application



Stormwater regulations: What's coming?

- Non-degradation rules
- Industrial permit reissued - 2008 target
- Construction permit reissued 2008
- Municipal permit reissued 2011
- TMDL-related SWPPP modifications
- Additional MS4s coming under regulation

Resources

MPCA stormwater Web site

<http://www.pca.state.mn.us/water/stormwater.html>

EPA general stormwater Web site

http://cfpub1.epa.gov/npdes/home.cfm?program_id=6

EPA Phase II stormwater compliance assistance guide

<http://www.epa.gov/npdes/pubs/comguide.pdf>