

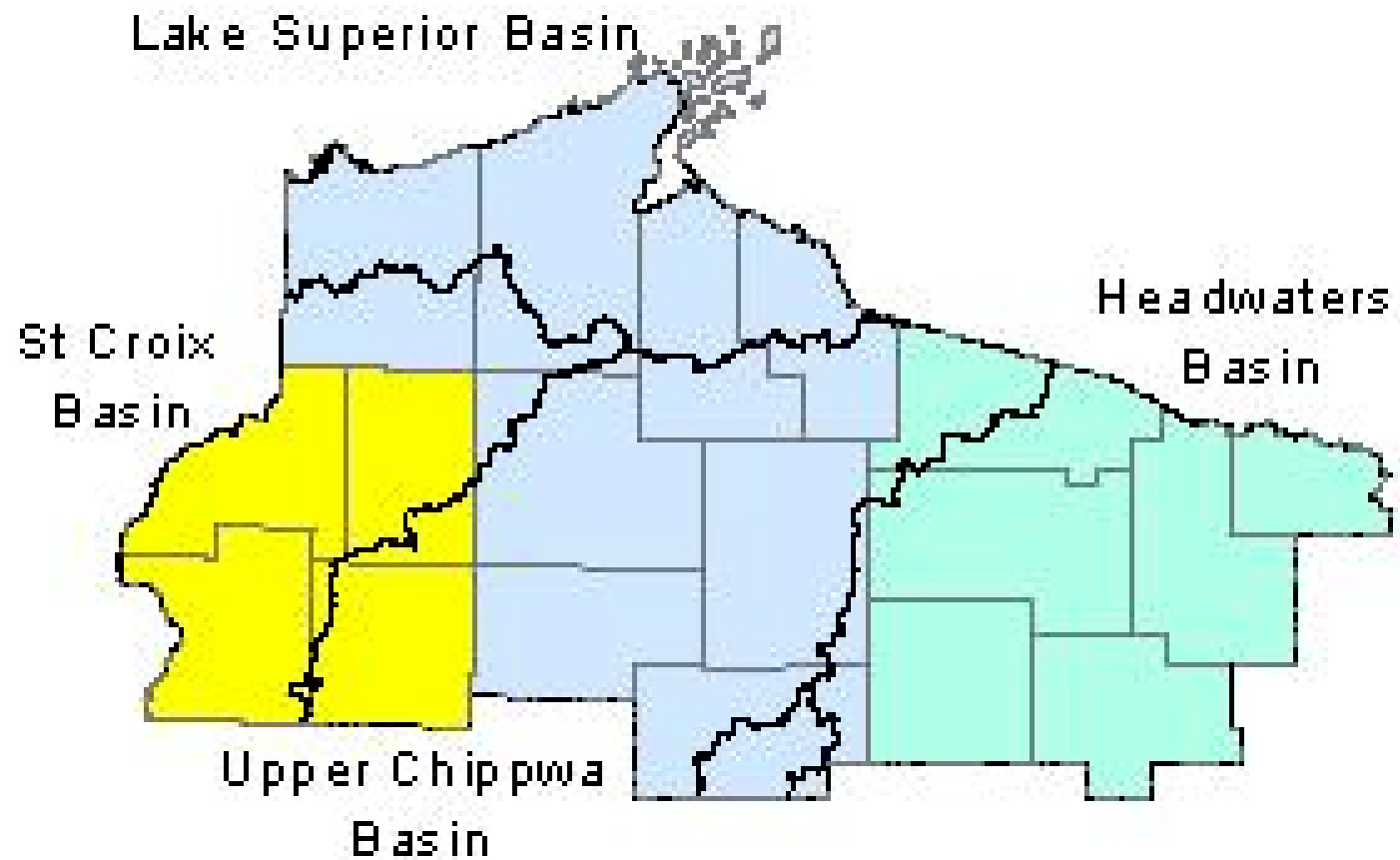
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Storm Water Management Plans

NR216.47

John Jereczek - WDNR

Northern Region



Definitions

- ✓ Land disturbing construction activity means any man-made alteration of the land surface resulting in a change in the topography or existing vegetative or non-vegetative soil cover...
- ✓ The project site may include areas that are part of a larger common plan of development or sale where multiple separate and distinct land disturbing construction activities may be taking place at different times or on different schedules

Requirements under the General Permit

- ✓ Develop construction site erosion control and storm water management plans designed to *prevent* storm water from becoming contaminated
- ✓ Implement construction site erosion control and storm water management plans, and
- ✓ For any permanent structures, provisions shall be made for long-term maintenance with the municipality or other responsible party.
- ✓ Conduct visual site inspections to assure plans are effective.

General Permits do not cover:

- ✓ Storm water discharges from land disturbing construction activity that affect wetlands
- ✓ Land disturbing construction activity and associated storm water discharges that affect endangered and threatened resources
- ✓ Land disturbing construction activity and associated storm water discharges that affect any historic property that is listed property, or on the inventory or on the list of locally designated historic places

Storm Water Plan Considerations

- ✓ Storm Water Plan must address TSS, Peak flow, enhanced infiltration, protective areas.
- ✓ Must meet the performance standards of NR151.12 for non-transportation sites.
- ✓ Must meet the performance standards of NR151.24 for transportation sites.
- ✓ Performance standards are met through the implementation of the Technical Standards

What's a Storm Water Management Plan?

- ✓ A narrative design report
 - how the requirements will be met through BMPs, conservation design, reduction in impervious surface areas, etc
- ✓ Site water budget calculations
 - including storm water runoff, infiltration and evapo-transpiration calculations for pre and post development
- ✓ Design plans
 - Show the site BMPs, grading and outlet structures.
 - Include description of construction sequencing and practices to ensure the viability of the BMP and infiltration areas
- ✓ Descriptions of:
 - operation and maintenance for the permanent storm water facilities.

Plan must:

- ✓ Meet appropriate NR 151 performance standards
- ✓ Include a description of the practices that will be installed and why selected
- ✓ Utilize DNR-approved technical standards and justify deviation where performance affected
 - Infiltration systems require:
 - setbacks from wells
 - on-site testing for GW protection and design concerns
- ✓ Long-term maintenance agreement required for permanent structures and submitted with NOI
- ✓ Provide a written and site-specific explanation why a level of reduction is not attained

Provide detailed design calculations for all structural controls used on the site

DETENTION POND

DEVICE NO.	1	LABEL	detpond	BOTTOM ELEV	feet	0
		SURFACE		STORAGE		INFILTRATION
		AREA (acres)		VOLUME (ac-ft)		RATE (in/hr)
POND BOTTOM		.881489				
PERMANENT POOL		1.683		5.6184		0
FLOOD POOL		0		0		0

NORMAL OUTLET - DRAINS FLOOD POOL - SPECIFY ONLY ONE TYPE:

ORIFICE DIAMETER	inches	0	ORIF DISCHARGE COEF	0	
WEIR LENGTH	feet	0	WEIR DISCHARGE COEF	0	
RISER HEIGHT	ft	0	HOLES	0	
			HOLE DIAMETER	inches	0
FLOOD POOL DRAWDOWN TIME	hours	0			

PARTICLE REMOVAL SCALE FACTOR: 1 ~1.0

OUTFLOW DEVICE NO'S: INFILTR NORMAL OVERFLOW

device label

F1=HELP, F2=DONE/SAVE, F3=EDIT FIELD, F7=HELP/EDITOR, <ESC>=ABORT

Amendments are required when...

- ✓ there is a change in design, construction, operation or maintenance at the site which has the reasonable potential for the discharge of pollutants to waters of the state and which has not otherwise been addressed in the plan

DNR Web Resources

✓ **Natural Heritage Inventory**

<http://dnr.wi.gov/org/land/er/nhi/>

✓ **Runoff Management**

<http://dnr.wi.gov/org/water/wm/nps/index.htm>

✓ **Storm Water**

<http://dnr.wi.gov/org/water/wm/nps/stormwater.htm>

✓ **Lake Superior Basin Home**

<http://dnr.wi.gov/org/gmu/superior/>

✓ **Technical Standards**

<http://dnr.wi.gov/org/water/wm/nps/stormwater/techstds.htm#Post>

How to Write a Code Complying Plan

Presentation available on the Lake Superior Basin Web site at:

<http://dnr.wi.gov/org/gmu/superior/EP/StormWater.html>

Resources

- ✓ "Storm Water Management for Construction Activities: Developing Pollution Prevention Plans and Best Management Practices." (EPA 832-R-92-005 November 1993 Revision). Provides guidance on the development of construction site erosion control and storm water management plans and identification of best management practices for construction activity.
- ✓ The Wisconsin Storm Water Manual. (UWEX Pub. G-3691-P) Manual gives an overview of storm water planning, storm water legal issues, pollution prevention, best management practices, and technical design guidelines for storm water management, including hydrology; infiltration basins and trenches; wet detention basins; and artificial wetland storm water management.

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Thank You

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