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Appendix A Waters

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Northeast Region
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Appendix A Waters

- What is it ?
- When do the requirements apply?
- What are the requirements?



Appendix A Waters

■ What is it ?

- Appendix A Waters = Special Waters:
 - Wilderness Areas
 - Mississippi River
 - Scenic or Recreational River segments
 - Lake Superior
 - Lake Trout Lakes, Trout Lakes
 - Scientific & Natural Areas
 - Trout Streams



Special Waters

■ Wilderness Areas

- Boundary Waters Canoe Area (BWCA)
- Voyageur's National Park
- Kettle River
 - (Sandstone, MN to St. Croix River)



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Special Waters

- Mississippi River
 - From Lake Itasca to south Morrison County Line (Little Falls / St. Cloud)



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Special Waters

- Scenic or Recreational River Segments
 - St. Croix River
 - Kettle River
 - From north Pine County Line to Sandstone, MN





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Special Waters

- Lake Trout Lakes
- Trout Lakes
- Scientific & Natural Areas
 - Kettle River Area, Pine County (various locations)
 - Purvis Lake-Ober Foundation, St. Louis County
 - Black Lake Bog, Pine County



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Special Waters

- **When do Special Waters Requirements Apply?**
 - All projects > 1 acre that have a stormwater discharge point within 2000' of a Special Water



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Special Waters

- **What are the Requirements for Discharges to Special Waters?**
 - Enhanced protection for sensitive areas
 - Additional Stabilization Requirements
 - Additional Water Quality Volume
 - Buffer Zone
 - Enhanced Runoff Controls
 - Temperature Controls



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Special Waters

- Stabilization Requirements
 - Stabilize disturbed slopes steeper than 3:1 within 3 days if not worked.
 - Stabilize disturbed slopes flatter than 3:1 within 7 days if not worked.
 - Temp. sed basin req'd if >5 acres draining to common point
 - Stabilize ditches within 24 hrs of connecting to a Surface Water and/or within 200' of PL



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Special Waters

- Water Quality Volume
 - Post Construction - Permanent stormwater management system must treat 1" runoff from the new impervious surfaces.



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Special Waters

- Buffer Zone
 - Maintain minimum separation distance of 100' from the Special Water.
- Enhanced Runoff Controls
 - Permanent stormwater management system must not change the runoff rate or volume for the 1 & 2 year, 24-hour precipitation event. (trout lakes, SNAs)



Special Waters

- Temperature Controls
 - Minimize new impervious surfaces
 - Discharge to vegetated areas
 - Infiltration and Evapotranspiration
 - Shading of ponds, filtered bottom withdrawal (24-hr draw down), vegetated swales
 - Other methods



REQUIREMENTS FOR DISCHARGES TO SPECIAL WATERS

SPECIAL WATER	BMPs Required				
	C.1	C.2	C.3	C.4	C.5
Wilderness Areas	X	X	X	X	
Mississippi River	X	X	X		
Scenic/Rec'l Rivers	X	X	X		
Lake Superior	X	X	X		
Lake Trout Lakes	X	X	X	X	
Trout Lakes	X	X	X	X	
SNAs	X	X	X	X	
Trout Streams	X	X	X		X



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Special Waters

- Requirements for Discharges to Special Waters
 - C.1 – Stabilization
 - C.2 – Water Quality Volume 1”
 - C.3 – Buffer Zone 100’
 - C.4 – Enhanced Runoff Controls
 - C.5 – Temperature Controls



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Special Waters

- Locating Special Waters, Impaired Waters, Trout Streams
 - On-line Special Waters Search Tool
<http://www.pca.state.mn.us/water/stormwater/stormwater-c.html>



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Special Waters

■ Summary

- Special Waters – wilderness areas, Mississippi R, Scenic & Rec. rivers, Lake Superior, Lake trout lakes, trout lakes, SNAs, trout streams
- Discharge within 2000' of a Special Waters
- Accelerated stabilization requirements
- Additional WQ requirements during & post-construction



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Special Waters

■ Questions?