
Reasonable Assurance for Nonpoint Sources

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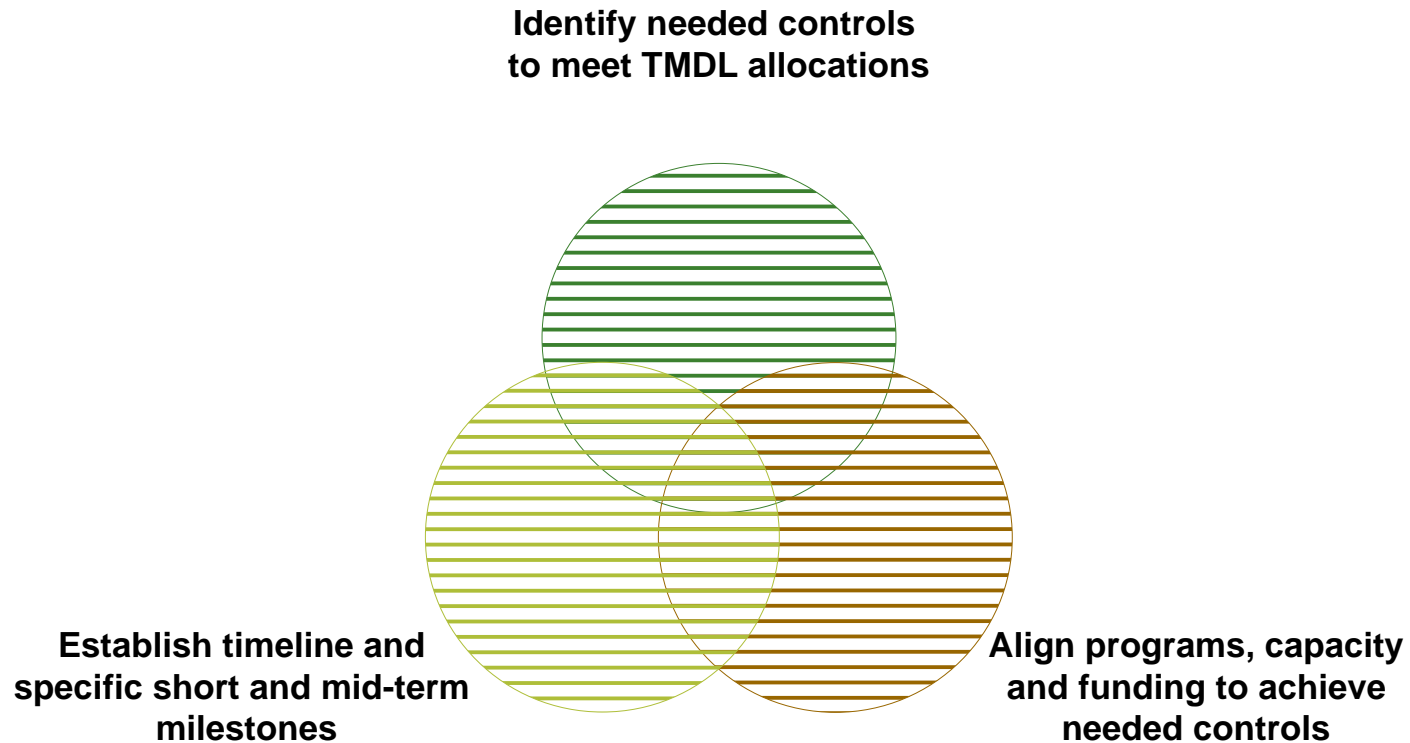
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What is “reasonable assurance”?



Apply existing law



- 50-foot non-cultivated buffers are required for lakes, rivers, streams, and public wetlands

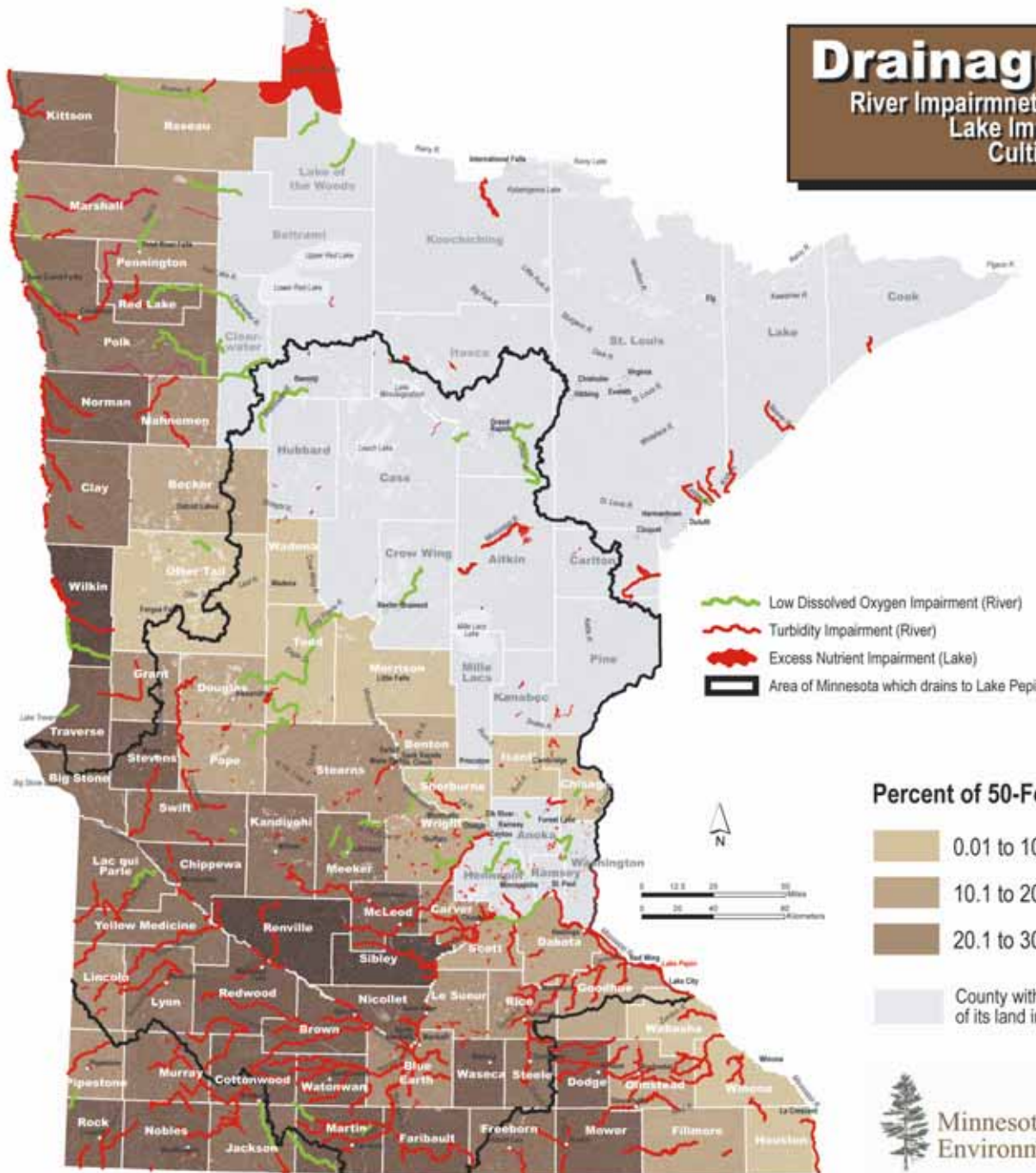
MN Shoreland Rules 6120.3300 Subpart 7

- Prohibition against excessive soil loss

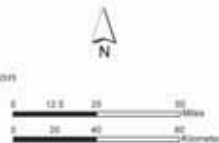
MN Statutes 103F.415

Drainage to Lake Pepin

River Impairments: Low Dissolved Oxygen & Turbidity
Lake Impairments: Excess Nutrients
Cultivation in Riparian Zones



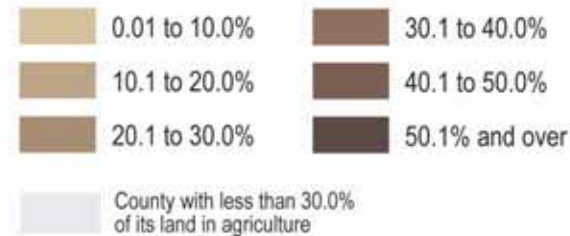
- Low Dissolved Oxygen Impairment (River)
- Turbidity Impairment (River)
- Excess Nutrient Impairment (Lake)
- Area of Minnesota which drains to Lake Pepin



Area of Minnesota Draining To Lake Pepin



Percent of 50-Foot Riparian Zone in Cultivation (by County)



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Water Impairment Data:
Minnesota Pollution Control Agency
303d/305b Lists (1998-2008)

Cultivated Area in 50 Ft. Riparian Zone Data:
Minnesota Board of Water and Soil Resources (Jan 2009)
<http://www.bwsr.state.mn.us>

Target agricultural subsidies



■ Geographically

- ❑ Large % of pollution loading from small % of land parcels

■ By BMP funded

- ❑ Building manure lagoons for large feedlots will not fix Lake Pepin

■ By financial need?

- ❑ Would make money go further and be fair to taxpayers footing the bill

Lots of Money



- Conservation subsidies, Lake Pepin watershed
1995-2006:
\$523,202,903
 - All USDA Farm Subsidies In Lake Pepin Watershed
1995-2006:
\$5,676,330,577
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