

STORMWATER / WETLAND INTERACTIONS

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Wisconsin Wetlands Association

STORMWATER / WETLAND INTERACTIONS

Potential influences of development on wetlands:

- Altered hydrology
- Sediments
- Excess nutrients
- Herbicides/Insecticides
- Invasive plants
- Warm runoff

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Careful stormwater design can help minimize:

- Shifts in wetland plant communities
- Loss of wetland habitat

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Hydrology

Local hydrology influenced by:

- Infiltrating vs. impervious surfaces
- Routing of runoff
- Method of runoff conveyance
- Stormwater treatment devices

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Pollutant 1

Sediments

- During construction
- Post-construction

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Pollutants 2,3,4

- Residual fertilizers
- Herbicides/Insecticides

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Pollutant 5

Invasive plants

- Out compete/replace native wetland plants.
- Contribute to reductions in habitat function
.....and species diversity.

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Pollutant 6

Elevated stormwater temperatures

- Streets
- Driveways
- Parking areas
- Rooftops

WETLAND – COMPATIBLE DEVELOPMENT



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WETLAND AESTHETIC



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WETLAND AMENITIES



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Discussion

More information available on the Web:

- Wisconsin Wetlands Association
www.wisconsinwetlands.org
- WDNR Wetlands site
<http://www.dnr.state.wi.us/org/water/fhp/wetlands/index.shtml>