Pratical Guide for DOCKS AND BOATHOUSES



2012 translated in 2019

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Shoreline and littoral zone



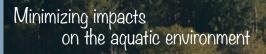
- Preservation of water mouvement and the free circulation of fish;
- **Prevention of shoreline erosion** by maximizing the conservation of the natural conditions and vegetated area;
- Minimization of the structure's surface area over the littoral zone in order to conserve existing natural habitats.

Rich biodiversity

These zones are important habitats for wildlife and plant species. They are very sensitive to disturbances.



Where to build a dock or boathouse?



When deciding upon the **location of the structure** to be built, it is important to consider the following:

- ▶ Topography;
- Depth of water;
- ▶ Flow of water and ice mouvement in winter;
- Aquatic vegetation.

Forsee water access structure that has:

- ▶ An opening with maximum width of **5 meters** when slope is smaller than 30%;
- An opening of minimal necessary width when slope is greater than 30%.

WARNING!!

Modifications of the littoral zone's natural state is **prohibited** (includes dredging, digging, backfilling, etc.). Many building activities and structures are **not permitted** on the shoreline as well.



Regulations

Municipal and provincial

The **municipality** must be contacted in order to obtain permits for the following tasks:

- Construction;
- Maintenance;
- Repairs;
- Demolition.

In accordance with the Regulation respecting the water property in the domain of the State Watercourses Act, a **provincial permit** may be required if the structure:

- Exceeds a 20m² surface area;
- ▶ Takes up more than a tenth of the total width of the waterway.

Other prior authorizations may be required, like one from the Ministry of Forests, Wildlife and Parks when impeding on fish habitats (littoral zone).



The installation of structures must be completed before spawning seasons.

regulations

Floating docks





Floating dock

floating

All floating structures should be removed from water bodies at the end of the summer

ADVANTAGES:

- Slight impact on the littoral zone, wildlife and habitats:
- Low cost and easy to build;
- Adaptable to most shorelines;
- ▶ Easily installed at varying water depths.

INCONVENIENCES:

- Decreased light penetrating the water column under the structure;
- Hydrological regime modified (flow of water and erosion):
- Not suitable for areas exposed to strong currents or waves.

NOTICE

These structures must be used for **water-related activities only** and cannot be used as a patio.

Pipe docks and docks on pillars





pipe

ADVANTAGES:

- More stable and solid than floating docks;
- Slight impacts on the aquatic ecosystem (the structure allows for greater penetration of sunlight in the water column and caues less disturbances to the hydrological regime than floating docks).

INCONVENIENCES:

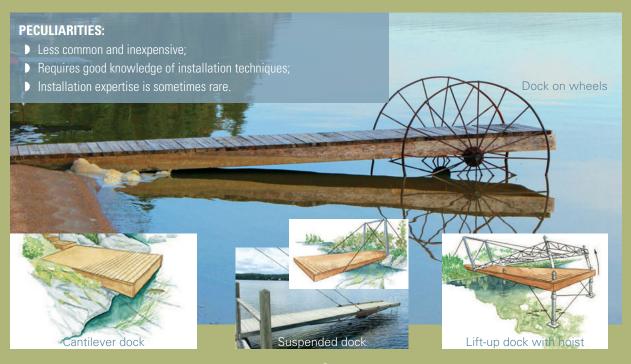
- 1. Pipe docks
- ▶ Because of their light weight, they are not suitable for areas exposed to strong currents and waves.

2. Docks on pillars

- Resuspension of sediments is possible during the installation of pillars;
- Shorter installation period.

Unique docks

Water and submerged lands undisturbed



Construction materials to use

The best material to use would be **UNTREATED WOOD** (**cedar, tamarack, hemlock**). It is very resistant to decomposition and contains natural preserving elements.

CONSTRUCTION MATERIALS TO AVOID

- **Treated wood**: contains toxic substances that can be harmful to aquatic organisms and human health.
- Concrete and polystyrene materials: not suitable for harsh winter conditions and wave action.
- Metal barrels and tires: may contains pollutants.

cedar tamarack hemlock

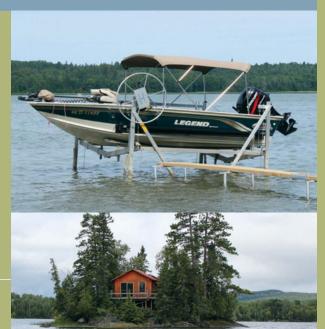
Ecological materials are favourable



Prohibited structures:

- Crib docks
- Docks on concrete pillars
- Concrete docks

Boathouses



boathouses

Allows the vessel to be stored out of water



Like docks, boathouses **must be** floating structures or on

- ▶ The boathouse can be attached to the dock.
- It cannot have side walls.
- ▶ The framework must be made of wood or metal.

PLEASE NOTE...

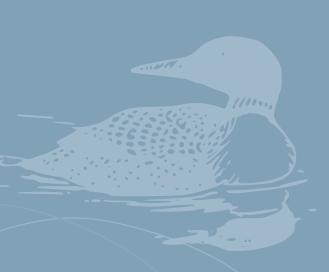
that boathouse structures resembling garages or sheds are not longer permitted in the littoral zone.

REFERENCES

- ▶ MDDEP (2012) Guide d'analyse des projets d'intervention dans les écosystèmes aquatiques, humides et riverains assujettis à l'article 22 de la Loi sur la qualité de l'environnement. Section Quais et abris à bateaux.
- ▶ PÊCHES ET OCÉANS CANADA (2011) *L'ABC des quais*. Programme de gestion de l'habitat du poisson. Édition du Québec. http://www.qc.dfo-mpo.gc.ca/publications/les-quais-dock-primer/documents/quais-docks-fr.pdf
- ▶ MDDEP (2007) Guide d'interprétation, Politique de protection des rives, du littoral et des plaines inondables. Direction des politiques de l'eau. 148 pages.

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