

## Placing rip-rap on Manitoba Hydro Water Storage Land in the Winnipeg River system

## RIP-RAP

This Guidance Letter will assist you in completing Manitoba Hydro's **Winnipeg River System Application for Shore Lands Development**.

The information you provide in your application enables us to review your proposal to ensure it follows the Shore Lands Use guidelines for Manitoba Hydro Water Storage Land. If the required information is not included, your application may be delayed or may not be approved.

We recognize that there is no one-size-fits-all approach for rip-rap since conditions can vary from area to area. We take into consideration existing regulations, the stability of the riverbank, the impact to the environment and impact to neighbouring property owners, among other issues. Because of this, we reserve the right to a final decision regarding any proposal affecting Manitoba Hydro Water Storage Land.

Rip-rap rock:

- should be an average size of 8 to 12 inches.
- should contain less than five per cent of rock fragments smaller than 3 inches.
- that consists of blasted granite should not be larger than 16 to 24 inches.
- should be limited in height to the extents necessary to protect the shoreline from erosion and not be placed higher than necessary upslope.
- generally does not consist of long, flat, or rounded stones, since they are not as effective at protecting against erosion.

Some rules to keep in mind:

- The in-water portion must be reviewed by Fisheries and Oceans Canada prior to any work being performed.
- The vegetation that is removed must be replanted.

Your application must:

- ☐ include complete drawings showing all existing structures and development and their dimensions and the proposed rip-rap area.
- ☐ include cross-section and aerial views of the project with dimensions (length, height, width).
- ☐ include a list of vegetation to be removed (e.g. bushes, trees) and a re-vegetation plan.
- ☐ include a detailed drawing showing excavation of the shore (if applicable).
- ☐ identify the type of rock to be used.

See reverse for examples of drawings to include with your application.

Examples for illustration purposes only

