



## INSTRUCTIONS FOR USING PENERGETIC W FOR REMEDIATION OF A POND or DUGOUT

### Simple Application Instructions (assuming product treatment begins in the Spring)

#### *Application*

1. Once product received, start by applying the recommended monthly quantity of penergetic w.
2. Apply the same quantity of product monthly.
3. Then, as the water starts to warm up (guideline temperature: to  $>12^{\circ}\text{C}$ ) shift to using penergetic w (for surface water) and apply it monthly (examples: June 4th, July 4th, August 4th, Sept. 4th).
4. Then, as the pond/dugout water temperature starts to cool shift to applying penergetic w (mud reduction)
5. Ideally apply it (pen-w- mud reduction) twice before the fall snows/ice set in, two or three times over the winter (through the ice) and twice again in the Spring.

The most typical means of applying penergetic w is to mix it in a bucket (say 1.0 kg per 5 gallons of water) and apply it into the pond/dugout at various locations around the dugout perimeter. [Note: You can use a paint mixer on a variable speed drill to thoroughly mix the product in the bucket.] A more automated method is to add the product to a sprayer tank (should have tank agitation to keep the product in suspension while applying). Some set-ups even have a pressure wand (or fire hose-like attachment) to assist in broadcasting the penergetic w/water mix out over the dugout. Sometimes, during good weather conditions, the more adventuresome even go out in a small boat and apply it in a dispersed fashion over the dugout surface area (see picture of an elaborate set up for application from a small boat). Whatever method is used the intent is to do one's best at dispersing the penergetic product into the receiving medium (in this case the dugout). The product will naturally (through molecular action) travel to all parts of the dugout, you (or the operator) are simply helping it out a bit to get started more quickly.

Note: for winter application, be careful that that ice is thick enough before venturing out on it. Also it is not necessary to worry about ensuring the product gets enough coverage in the dugout – as it will naturally find its way around to all parts of the dugout. In fact, you can often actually see it

move under the ice out from the hole where it was dumped in. Also, warm water can be used to mix the penergetic with in the winter.

### Product Overview

Penergetic w (for surface water): works to reduce dugout eutrophication (lack of oxygen) and thereby preventing algae and foul odours

Penergetic w (for mud reduction): works to mineralize (eat up) the dead organic matter and muck on the bottom of the dugout, which typically is the source cause of a dugout problems eutrophication.

[My opinion: *“pen-w (mud reduction) is the “work horse” of the operation.”*]