

# Natural Algae Solution

## Phoslock

Phoslock is a product designed for phosphate removal from water. Its active component is lanthanum which reacts with phosphate forming an insoluble and biologically inert compound. Its ability to bind phosphate makes it an effective tool in lake restoration.

Phoslock was developed in Australia by the CSIRO as a way of utilising the ability of lanthanum to bind phosphate but at the same time making it safe for use in natural aquatic systems.

When used in lake restoration, Phoslock is usually added to the lake as a slurry. As this sinks through the water column it binds phosphate as it goes. Once settled on the sediment it can continue to bind phosphate released from the sediment, thus controlling one of the major blocks to lake restoration - sediment phosphorus release.

The ability of Phoslock to bind phosphate is important because phosphate is the form of phosphorus which is biologically available and used by plants - especially algae in lakes, to promote growth. Excessive amounts of phosphate entering water courses is one of the main causes of deterioration of water quality in freshwaters today because of the way it drives algal productivity and undesirable changes in the balance of aquatic life. The process is known as eutrophication. The ability to remove biologically available phosphorus in a lake is therefore a major step towards improving water quality.

Phoslock can be used in lakes and ponds as well as other standing waters (e.g. reservoirs, fish hatcheries) where high phosphate levels are causing problems. It is not usually applied to flowing waters.



You can find more information on [www.phoslock.eu](http://www.phoslock.eu)

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