



# Water Samples Survey

2022

## 1. Diatomix

Diatomix is manufactured by AlgaEnviro and is a non-toxic, silica based micro-nutrient mixture that has all the micronutrients required to enhance the growth of naturally occurring diatom microalgae. The micronutrients are adsorbed into the amorphous nano-silica structure. Only diatom microalgae have a requirement to take up silica and as a result only diatoms can access the micronutrient boost that is embedded into the silica gels in Diatomix. With a micronutrient boost, diatoms can successfully out-compete other types of algae and many other water-weeds, using up nutrients like nitrogen and phosphorus. The long term effect is that the levels of nitrogen (N) and phosphorus (P) remain low within ponds. A secondary, but equally important benefit is that other types of algae that may grow in the pond water, such as filamentous algae and blue-green algae (also called cyanobacteria) are not able to grow well, if at all, as the N and P they require has been used by the diatoms.

Diatom microalgae make up a large proportion of the food chain for higher trophic level animals like zooplankton, invertebrates and fish. This means that the diatoms that are encouraged to grow through the use of Diatomix will be a further source of food for fish, insects and microscopic zooplankton. The long-term benefit is that pond algal growth will be dominated by diatoms, and unwanted types of algae and water weeds are reduced.

## 2. How to Calculate Diatomix dosage

Please complete the Site Information sheet at the back page of this document and email it to [info@diatomix.com.au](mailto:info@diatomix.com.au). With the data from this sheet the AlgaEnviro team will provide you with a dosage regime specific to your site.

Pond dosing is calculated on the nitrogen available in the pond, but as this is a biological process there are a number of factors that need to be considered, so please complete as much of the sheet as possible. It is important to know that Diatomix is highly concentrated and this is why it is important to get the calculations right.

Did you know that one litre of Diatomix contains one  
Septillion Silica orbs, loaded with the  
micronutrients diatoms need?

A Septillion is a number with 24 zeroes after it!!

Site Information Sheet:

Your Name:

Your Address:

Name:

Phone:

Email:

<b>Pond water parameters</b>	<b>Pond</b>
Surface area of the pond (m <sup>2</sup> )	
Depth of pond (m)	
Nitrate concentration (mg/L)	
Ammonia concentration (mg/L)	
Orthophosphate concentration (mg/L)	
Reactive Silica concentration (mg/L)	
<b>Influent/ Water Flowing In - parameters</b>	<b>Influent</b>
Nitrate concentration (mg/L)	
Ammonia concentration (mg/L)	
Orthophosphate concentration (mg/L)	
Reactive Silica concentration (mg/L)	
Volume entering pond system each day (L/day or m <sup>3</sup> /day)	

Date of water samples: