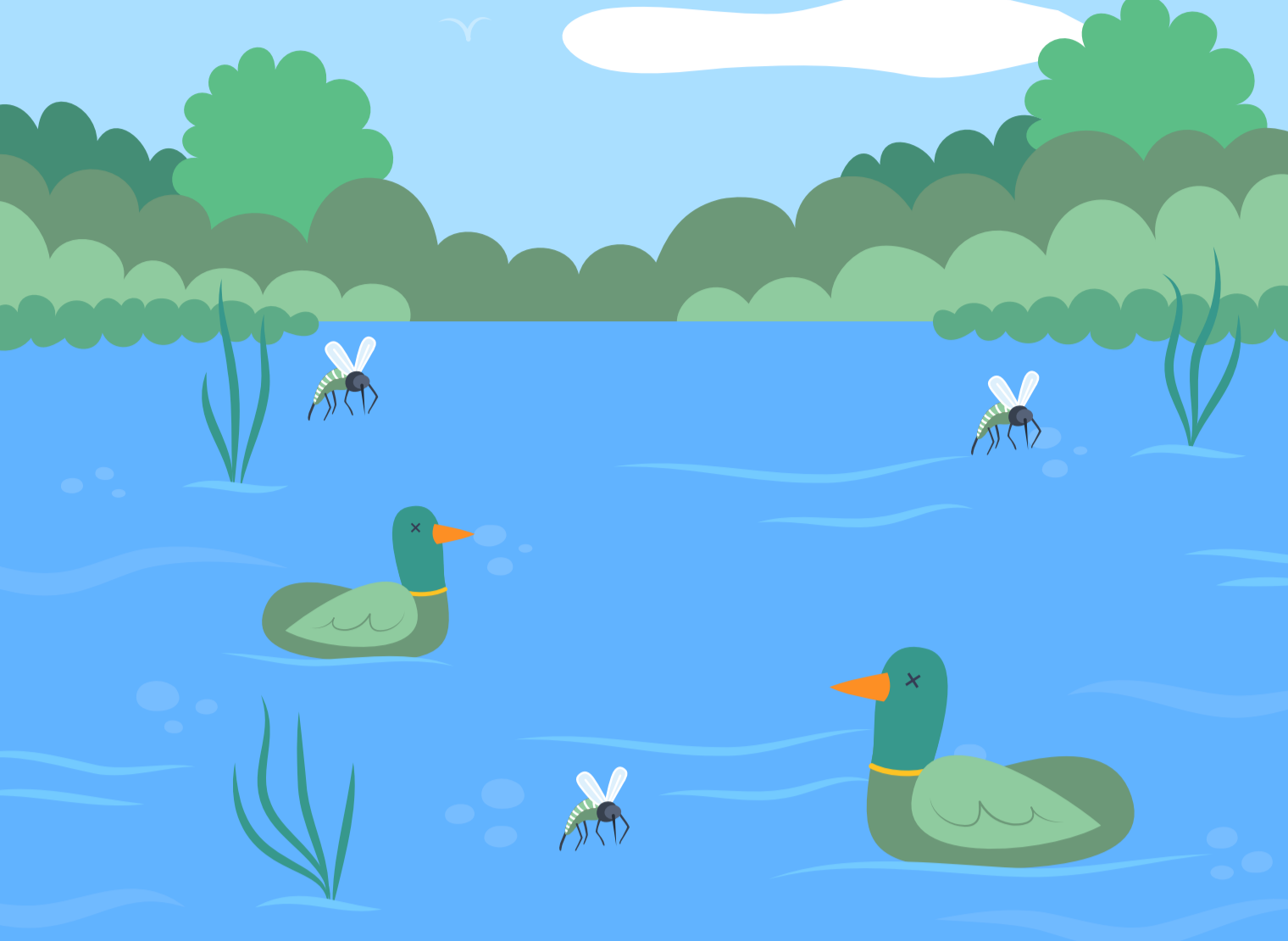


The Importance Of Lake And Pond Aeration For An

AQUATIC ECOSYSTEM

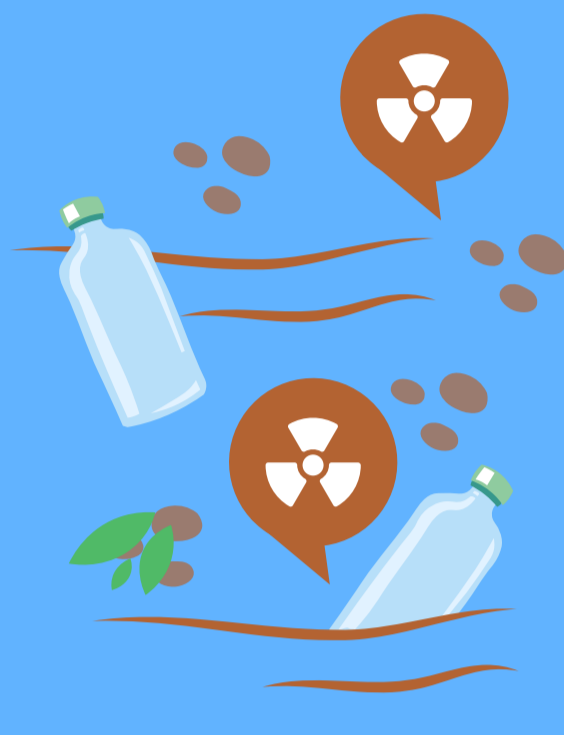


Did you know that roughly 20% of the 50,000 lakes, streams, and ponds surveyed by the Environmental Protection Agency had evidence of phosphorus and nitrogen pollution? These types of pollutants indirectly cause lakes and ponds to have diminished oxygen levels. In effect, this destroys wildlife diversity, increases mosquito activity, and ruins your overall water quality. So what is the solution to this problem? One simple fix is pond aeration — a process that increases the amount of dissolved oxygen in the water. But how does pond aeration help lakes and ponds? Is it that important? In this article, we will answer these questions and many more. Let's get started!

How Do Pollutants Deplete

When it rains, the pollutants are carried to streams, ponds, lakes, rivers, and even the ocean. Often, when we picture an unhealthy pond or lake, we think of water covered in algae. But how are algae and fertilizer chemicals related?

Well, the chemicals cause algae that are naturally found in the water to bloom rapidly. Too much algae will result in the release of a massive amount of toxins into the water. This has a negative impact on the health of plants, fish, and other water life.



Difference Between Aerators and Fountains



Often pond or lake owners will commonly use the terms fountains and aerators interchangeably. While the two devices do perform similar purposes, there are some key differences you should be aware of. Fountains provide much less circulation than aerators — their main function is for appearance. They do circulate some water and provide oxygen; however, these benefits are limited to the surface area around the fountain.

Advantages of Lake and Pond Aeration

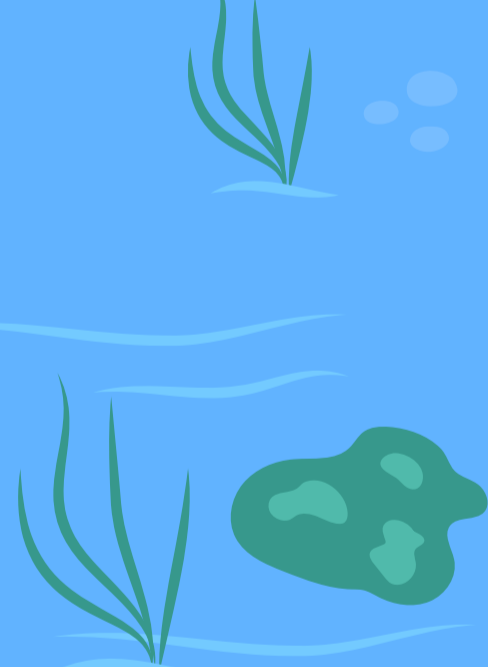
Cleans Up the Water Quality

When there are depleted oxygen levels in a lake or pond, then the plant life and sediments begin releasing harmful gases and metals into the water. This creates a negative feedback loop where the lack of oxygen causes oxygen to deplete even faster. The gases don't just impact water quality and appearance. The hydrogen sulfide gases released produce an incredibly unpleasant smell for people around the water.



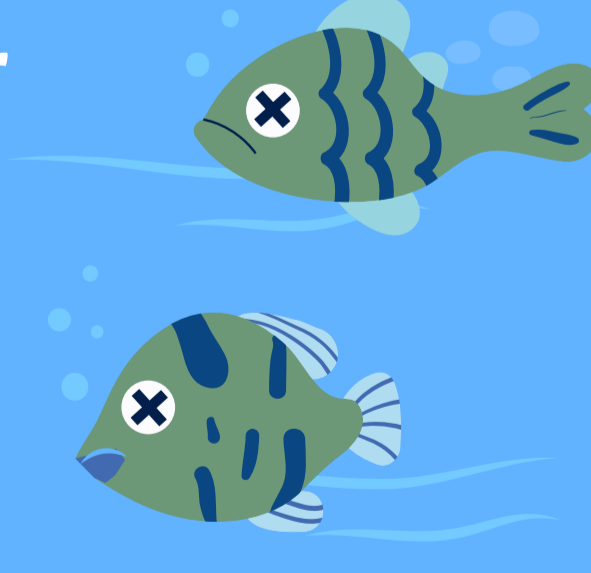
Slows Down Explosive Growth of Algae

As we mentioned, uncontrolled algae blooms are one of the main causes of oxygen depletion in ponds and lakes. These algae blooms are directly related to phosphorus runoff entering the water. With proper aeration, the added oxygen makes the phosphorus in the water unusable for the algae to feed on. Furthermore, the aeration pushes the algae spores toward the bottom of the water. This fact means they will get less sunlight, which will stunt their growth.



Provides Healthier Habitat For Fish

If you use your lake or pond for fishing, then you must take care of the population. Otherwise, a lack of oxygen will eventually kill off all of your fish. So, if you want to avoid having to introduce new fish to the water, then keeping water clean and healthy is crucial. As we mentioned before, aeration improves water oxygen levels which fish need to survive. It also reduces the harmful gases that can kill them. However, another way that aeration helps your fish population is through destratification.



Reduces The Number of Mosquitos

To lay their eggs, mosquitoes need completely still water. Because of this, unaerated ponds and those with little water movement are the perfect environment for hatching eggs. That is the reason why communities located next to swamps and other still bodies of water suffer from a huge mosquito population. Luckily, aeration creates constant ripples and flows in the water. As such, it kills the mosquito eggs and makes it a less desirable area for mosquitoes.



Want To Clean Up Your Lake Or Pond Today?

More info at SplashyMcFun.com

We hope this article helped teach you the important role that lake and pond aeration plays in a healthy aquatic ecosystem.

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