

# BioHaven Floating Islands

*...for solutions above and below the waterline*



**Patriot Land and Wildlife Management** is proud to offer an innovative and revolutionary water and habitat stewardship tool – **BioHaven Floating Islands**

## BioHavens do 5 main things

1. Remove pollutants from a waterway, including Nitrates, Phosphates, Ammonia, and heavy metals
2. Provide critical riparian edge habitat – in fact, new land mass for use by all kinds of creatures, from the smallest microbe to the largest human!
3. Sequester carbon and other greenhouse gases
4. Provide wave mitigation and erosion control



- Made from layers of recycled plastic “matrix” which are bonded together with buoyant adhesive foam, **BioHavens** are planted with sod, garden plants, or wetland plants and launched onto a water body.
- There, the plants are allowed to grow naturally, and, as they develop, their roots grow through the matrix and into the water below.
- Over time, a natural eco-system evolves. The model for this is Nature herself – the key is balance. **BioHavens** “*bio-mimic*” Nature.



- **BioHavens** are effectively a concentrated wetland – the huge surface area of fibers provides many times more surface area than an equivalent stretch of bare wetland.
- Surface area is the key factor for microbial activity to take place, and microbes (bacteria) are the key to removing contaminants from the water.
- Plants and their roots are also important, but more for the extra surface area the roots provide than any nutrient uptake the plants themselves account for.

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**BioHavens** were invented 8 years ago, have been successfully trialed for 6 years, and have been on the market since July 2005.

**BioHavens** represent a natural, convenient, and cost-effective solution for some of the most intractable and expensive problems on the planet.

- “Polishing” wastewater and stormwater of nutrients and heavy metals to return it safely to the watershed
- Sequestering carbon dioxide and methane from effluent ponds to reduce global warming
- Wave mitigation and protection of levees in the event of severe storms
- Mining nutrient loads from any waterway and reducing algal blooms
- Restoring wetlands without the need for new land
- Restoring habitat for endangered species (such as the trumpeter swan)



**BioHavens** can be made in any shape and size and offer some fun uses to balance the more serious side...

- Creating walkways, piers, docks, and jetties
- Providing support for recreational uses, such as picnic tables, floating stages, gazebos, and golf course logos
- Floating vegetable gardens which never need watering!
- Restoring a natural look and balance to any waterway of any size
- New land mass for human habitation



Not only are **BioHavens** natural, aesthetic, and functional, they are cost-effective, “Green”, and virtually maintenance free!

To learn more about **BioHaven Floating Islands** and how to get your own, visit us today at

[www.PatriotLWM.com](http://www.PatriotLWM.com)

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