

# THE NATURAL WAY – BIOCHAR LAWN PROGRAM

**Our BioChar application for your lawn will help reduce irrigation needs, help develop deeper and thicker roots, reduce disease problems, and result in thicker, greener, healthier turf grass. Biochar is a fine grained, highly stable, carbon rich, porous product made by slow burning dead plant biomass in a low oxygen environment.**

Improving the soil biome is key to improving soils and the plants that grow within it. The healthier the soils are with diverse and abundant microbes, micro-organisms, and organisms, the healthier plants will be. There are many symbiotic relationships between plants and other organisms. There are over 1 billion organisms in one teaspoon of healthy soil. Promoting these organisms helps plants by increasing nutrient uptake, increasing water holding capacity of the soil, increased aeration, increased organic matter, better soil structure, and making bound nutrients available to plants.

Biochar provides niches for these micro-organisms to live and prosper.

Biochar has been used in the Amazon Basin to create Terra Preta (Portuguese for black soil) to grow

## **Biochar – The key to a healthier root zone biome.**

Our applications are early spring and mid/late summer and can be used to supplement or replace mechanical aeration.

With our complete lawn care program including Biochar you will maximize your watering expenses and have a greener, healthier lawn!!!

crops in the nutrient poor rainforest soils. There has been extensive research on biochar, more research than on mechanical aeration. It holds more than 5 times its weight in water, helps break up hard soils, and provides niches for beneficial micro-organisms to live in its many pore spaces. Increasing micro-organisms and all beneficial organisms in the soil provides many benefits to grass. These organisms move around, creating tunnels and chambers that provide natural aeration within the root zone as well as increasing water penetration and holding capacity of the soil. When we have healthy population levels of these beneficial organisms, they are consuming organic matter in the soil and their excrement provides natural compost throughout the root zone. As an additional bonus, it sequesters carbon for thousands of years.

- **Reduces water requirements and can hold over 5 ½ times its weight in water**
- **Detoxifies soil of excess salts, pesticides, herbicides, and heavy metals**
- **Improves soil fertility, structure, porosity, and nutrient availability while reducing nutrient leaching**
- **Introduces and creates habitat for beneficial bacteria, mycorrhizae and other micro-organisms**
- **Increases resistance to plant and soil pathogens and pests.**
- **Locks up and sequesters carbon for thousands of years.**