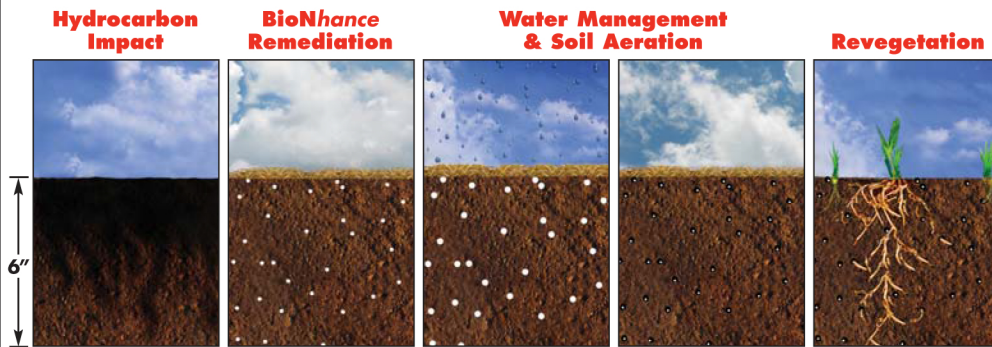


# BioNhance™

**For faster remediation and restoration of hydrocarbon-impacted soils**

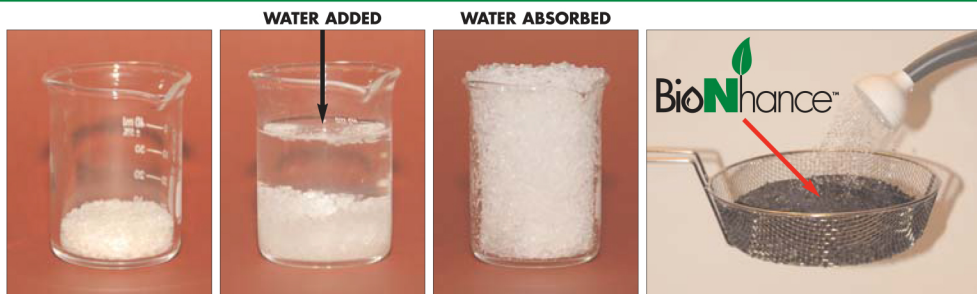
- BioNhance is the first soil remediation and restoration product with a unique water management system that:
  - ✓ Makes the most out of every drop of water.
  - ✓ Reduces leaching of fertilizers from the soil.
  - ✓ Reduces nitrogen losses by denitrification.
  - ✓ Creates macrospores in the soil to facilitate oxygen penetration aeration and water infiltration.

## Hydrocarbon-impacted site's remediation, restoration and revegetation process



The active component is an environmentally safe, non-toxic, water-absorbing polymer that swells and absorbs over 200 times its weight in water during irrigation or rainfall. As the soil dries the polymer slowly releases water into the soil, making that water available to hydrocarbon-degrading bacteria.

## Water Management System Demonstration



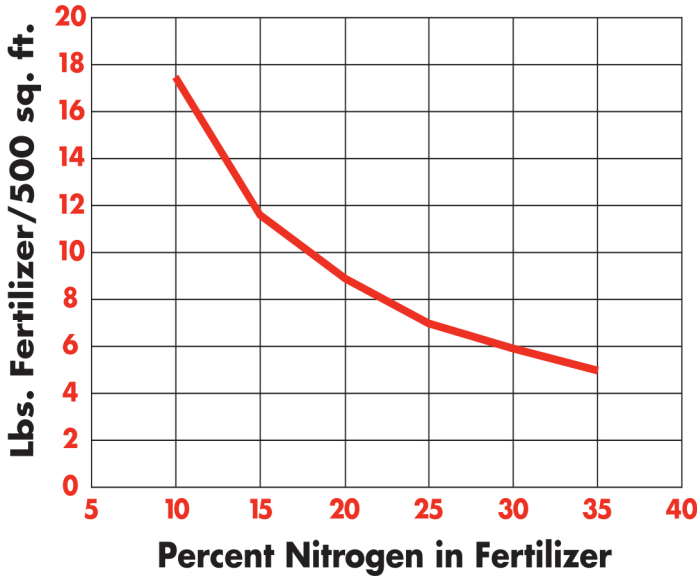
**Swells and absorbs over 200X its weight in water!**

As the polymer swells and shrinks, macrospores are created in the soil which increase soil aeration and water infiltration.



## Maximum Weight of Fertilizer to Use in Step 2 to Prevent Burning

Example: For 14-14-14 the maximum application is 12.5 lbs./500 sq. ft.



## Proprietary Water Management

The water management system in BioNhnance has been proven for years in the landscaping and nursery industries. Tests show that the water management system works well in hydrocarbon-impacted soils too. The same benefits produced by BioNhnance during revegetation increase rates of biodegradation of hydrocarbons during the remediation phase.

## BioNhnance™ 4 easy steps, 3 applications

Till Soil



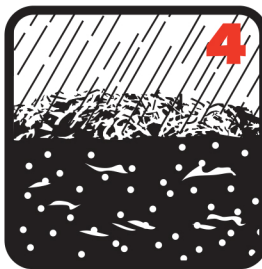
Top Dress Hay



Till In BioNhnance,  
Hay & Fertilizer



Water 1" Eqv.



## What Is In It, What You Need

In addition to the water management system, BioNhnance contains two types of stable organic matter, both of which have been shown to stimulate bioremediation and plant growth. A regiment of bioavailable nitrogen and phosphorous plus hay should be applied in conjunction with BioNhnance. We do not include the fertilizer in the product for two reasons, first to increase the shelf life of the product and second to allow the user to use locally available fertilizer. Fertilizer applications guidelines are provided with the packaged product and on the web at [bionhnance.net](http://bionhnance.net).

For Brine Spills-



For Environmentally Sustainable Remediation  
& Restoration of Brine Impacted Soils

**Ca<sup>++</sup>Nhnance** consists of food-grade organic acids which react with calcium carbonate (limestone) in soil to produce soluble calcium to fight sodicity using twenty times less water than required to produce an equivalent amount of soluble calcium from gypsum. And **Ca<sup>++</sup>Nhnance** does not interfere with nutrient availability like gypsum. In fact **Ca<sup>++</sup>Nhnance** stimulates microbial growth in the soil which immobilizes nutrients preventing leaching and building soil nutrient pools.

Go to [BioNhnance.net](http://BioNhnance.net)  
for complete directions  
and information.



**Bovaird Supply Company LLC**  
Mailing Address:  
P.O. Box 52826, Tulsa, OK 74152  
Street Address:  
1636 E. 6th St, Tulsa, OK 74120  
918-293-0223 Fax 918-894-6742  
888-525-5103  
[sales@bovairdsupply.com](mailto:sales@bovairdsupply.com)  
[bovairdsupply.com](http://bovairdsupply.com)

Developed in  
collaboration with

