

MAKING IT EASY TO DO IT RIGHT

**P&R** Remediation  
**SP** & Restoration  
Science Products™

# BioNhance™

Your complete spill solution for faster remediation and restoration of **hydrocarbon-impacted soils**.

- **BioN

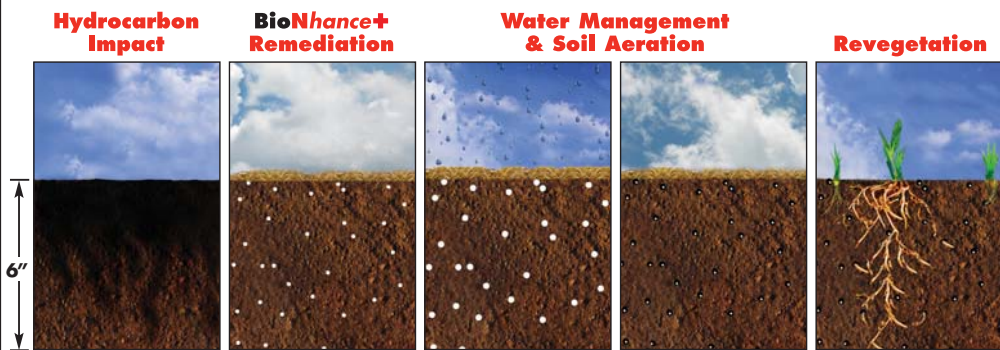
## hance

+** is the first soil remediation and restoration product with a unique water management system. **BioN

## hance

+** also provides:
  - ✓ Readily available pre-measured fertilizer to support biodegradation of the hydrocarbon.
  - ✓ High quality organic matter to aerate the soil, supply slow released fertilizer and trace nutrients, support ultimate vegetation and reduces nitrogen losses by denitrification.
  - ✓ Hydrogels to capture and hold moisture for both biodegradation and revegetation.
  - ✓ Creates macrospores in the soil to facilitate oxygen penetration aeration and water infiltration.

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



Hydrogels are environmentally safe, non-toxic, water-absorbing polymers that swell and absorb over 200 times their weight in water during irrigation or rainfall. As the soil dries the polymers slowly release water into the soil, making that water available to hydrocarbon-degrading bacteria and ultimately new vegetation.

As the polymers swell and shrink, macrospores are created in the soil which increase soil aeration, water infiltration, and ultimately root penetration.

## Water Management System Demonstration



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

**Bovaird Supply Company, L.L.C.**

Mailing address: P. O. Box 52826, Tulsa, OK 74152 • Street address: 1547 S. Harvard Ave. Tulsa, OK 74112  
918-293-0223 fax 918-398-0799, 1-888-525-5103, sales@bovairdsupply.com, bovairdsupply.com

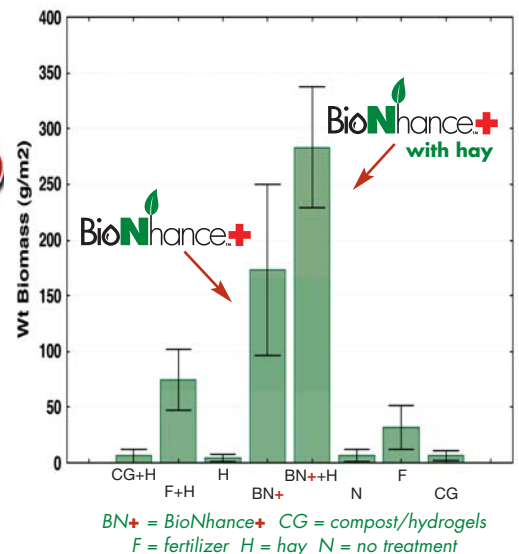


# IN A RECENT FIELD TEST **BioNhance+** PROVED TO GIVE SUPERIOR PERFORMANCE IN TERMS OF REMEDIATION AND REVEGETATION OF CRUDE OIL IMPACTED SOIL.

## BioNhance+ FIELD TEST

- Randomized block design with at least triplicate treatments
  - ✓ 8 ft by 8 ft plots
  - ✓ 9 gal of 42 API crude oil applied and tilled in
  - ✓ Amendments for treatments applied and plots re-tilled
  - ✓ Equivalent of one inch rainfall applied at startup
  - ✓ Reapplication of amendments at 30 and 60 days

- Treatments
  - ✓ Hay (H)
  - ✓ Fertilizer (F)
  - ✓ Fertilizer + Hay (F+H)
  - ✓ Compost/Hydrogels (CG)
  - ✓ Compost/Hydrogels + Hay (CG+H)
  - ✓ BioNhance+ (Compost/Hydrogels/Fertilizer) (BN+)
  - ✓ BioNhance+ + hay (BN++H)
  - ✓ No Treatment (N)



Above-ground biomass in test plots in the spring following summer and fall remediation

## BioNhance+ 4 easy steps

**Break Up Soil**

**Light Top Dress with Hay**

**Till in Contents and Hay to 6"**

**Water 1" Eqv.**

### Proprietary Water Management

The water management system in BioNhance+ 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 BioNhance+ during revegetation increase rates of biodegradation of hydrocarbons during the remediation phase. **SOLD IN CONVENIENT 4# SPILL KITS OR 50# BAGS FOR LARGER APPLICATION AREAS.**



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

Developed in collaboration with

