



Bionetix Newsletter

January, 2015

ATP Fluorescence

Understanding Wastewater Treatment with Bioaugmentation

Many of our distributors are now opting for ATP monitoring systems. The technology uses Adenosine Triphosphate (ATP) for the measurement of total microbiological content and activity in a given sample. The test kits are easy to use and are hand held so anyone promoting Bionetix can go in a treatment facility and provide on-site, hands-on results on the efficiency of bioaugmentation and biostimulation. It allows users to improve process performance by visualizing the optimum biological activity once Bionetix BCP products are added in to treat incoming waste. Contact your local representative for more information on how you can obtain your test kit.

Featured Products

Bionetix® All Purpose Odor Eliminator

Bionetix® All Purpose Odor Eliminator has specially blended natural active ingredients that are capable of neutralizing a wide range of malodorous molecules. Bad smells are detected from foul particles that are volatile and dispersed in the air - replace these unpleasant odors with a fresh scent using the power of nature. The ingredient in All Purpose Odor Eliminator forms a complex with odor causing organic compounds, which yields a lower concentration of these molecules, destroying the toughest odors so they are gone for good.

All Purpose Odor Eliminator utilizes the latest technology of microbial action with a highly effective organic neutralizer for the ultimate bio-based deodorizing spray that traps odors and digests them back to nature, safely and naturally. It is formulated from a unique blend of natural and environmentally friendly ingredients specially developed to attack and destroy many unpleasant odors, providing a powerful cleaning action. It will effectively eliminate odoriferous gases like ammonia, amines, hydrogen sulfide, thiols, mercaptans, butyric or caproic acid, and others which are emitted from smoke, mold, waste, decomposition, garbage, cooking, food, animals, sweat, urine, feces, or other organic substances.

Applications include: deodorizing spaces (cars, rooms, hotels, etc...), deodorizing fabric and textiles (carpets, curtains), or for use on hard surfaces. Simply spray onto affected areas with a compressed air sprayer or fogging equipment, or with aerosol in ready to use format. No need to evacuate the premise during application and no special equipment is required. Product is safe to leave on wet, no rinsing needed. Reapply as desired.





New Products

SPILL KIT 35S

Reduce Your Processing Cost and Increase the Time of Remediation

Bionetix International a wholly owned subsidiary of Cortec® Corporation, in the business of manufacturing microbial based bio-products, presents a newest addition to its rich line of products - SPILL KIT 35S, new bioremediation product for hydrocarbons spills.

Oil spills often result in immediate, long-term and expensive environmental damage that can last for decades after the spill occurs. SPILL KIT 35S, an environmentally safe and economical alternative to the use of chemicals includes 2 applications for spills up to 10 square meters. It is designed to bring two of the best hydrocarbon degrading technologies into one to enhance the three steps of bioremediation.

Each kit includes two of Bionetix best selling products: BIOSURF, a plant derived biosurfactant solution rich in nutrients that promotes bacterial activation and solubilizes the hydrocarbons, and BCP 35S, a powder blend of beneficial and naturally occurring microorganisms (*Bacillus* and *Pseudomonas*) specialized to degrade hydrocarbons molecules such as: Gasoline, Diesel, Crude oil, and BTEX (Benzene, Toluene, Ethylene and Xylene)

Bioaugmentation with SPILL KIT 35S will deep clean soil that has received an accidental spill by enhancing the natural degradation process both by the action of specialised microorganisms and by increasing the solubility of the waste.

There are several guidelines that should be followed to obtain the optimum degradation rates of the organic contaminants. Bioremediation of contaminated soils may take place in a lined treatment cell in the case of excessive runoff.

Direct application of the microorganism and nutrient solution can be used for treatment. Soil pH, nutrient levels, oxygen availability, and moisture content are critical to the success of bioremediation.

Tilling the earth after application of the SPILL KIT 35S solution will enhance the treatment efficiency. SPILL KIT 35S can also be used to treat residual waste after absorbing pads have been used.



Coming Soon

Macronutrients and Micronutrients for enhanced process performance of biological wastewater plants.

Biological treatment of waste water systems depends highly on the availability of both micro and macro nutrients. Most facilities treated chemical or organic waste lack sufficient supply of both macro- and micronutrients for efficient biological treatment. On average, based on scientific results, COD removal rate can be enhanced almost 4 fold by properly adding the correct amount of nutrients. The macro nutrient range of products will enhance either nitrogen or phosphorous-limited wastewaters. The Micronutrient range or products will be beneficial for all types of waste by addition of selected vitamins and trace metals.

Regular applications of the beneficial nutrient blends can help operators of various types of processes in both municipal and industrial facilities. Poor nutrients has been shown to reduce floc formation, poor settling, and low digestion rates. A more balance nutrient load will help the biological processes work efficiently especially when dealing with higher organic loads or constant toxic shocks. It has been found in countless systems that the lack of nutrients can cause unbalances in the biomass creating low digestion rates or creating filamentous growth and bulking, a widespread issue across many facilities.

The nutrient blends we are developing are cost effective, can change biomass dynamics to help them responds to higher stress environments and will increase the bio efficiency of the system. The products will be designed to be used in the following systems:

- Anaerobic digesters
- Activated sludge systems
- SBR's
- Lagoons
- Oxidation tanks



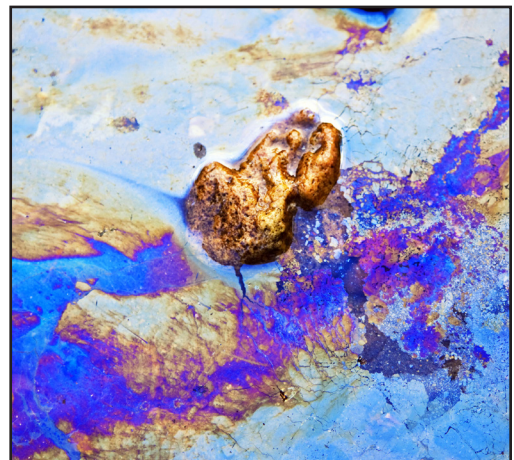
New Report

BCP 35 and BIOSURF

The Division of Environmental and Occupational Health of the department of Environmental Protection and Health Ecology in Croatia are pleased to present recent results on the efficiency of BCP 35 and BIOSURF for the treatment of crude mineral oil. It was found that both linear and branched hydrocarbons with C10 to C56, BTEX, C3 and C4-benzene substituents were fully degraded in contaminated soil samples after 3 weeks of treatment.

The BCP 35 and BIOSURF combo for small spills (SPILL KIT 35S) and for large scale soil remediation projects have developed into economical alternatives to excavation and incineration.

http://www.cortecvci.com/whats_new/announcements/Report%20BCP35S_BioSurf.pdf





Case Study

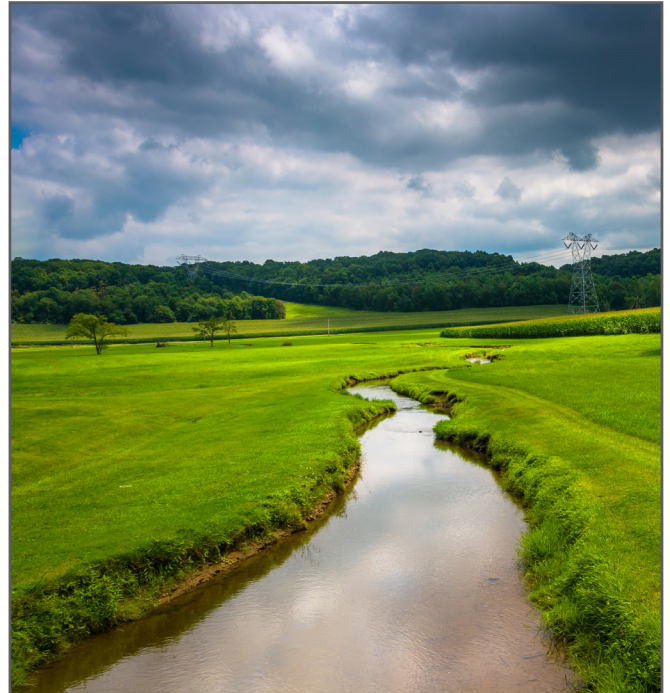
EcoSept

An Ohio family purchased an existing home in Westerville, Ohio. On the property is a creek that is part of the local Metro Park System featuring the Rocky Fork Creek Watershed and is one of the scenic features of the estate and local area. The creek flows year round except during times of drought.

New home owners discovered that their septic system had not been functioning properly for the first few weeks since they had moved in. Since it was late summer the creek has stopped flowing. The pool in the creek where the septic systems drains was black and filled with waste from the septic.

The homeowners chose to act quickly by adding a dose of Bionetix EcoSept directly to the stagnant pool. The specifically selected organisms in the EcoSept began to work right away. Within 3 days the pool was completely clear and fish, frogs and wildlife were again active in the water.

The weather brought rain a few days later and when the creek began to flow again only clean, clear water was washed away.



Trade Shows

WWETT 2015
FEBRUARY 24-26, 2015
INDIANAPOLIS, IN
BOOTH # 2333



AWT 2015
SEPTEMBER 09-12, 2015
NASHVILLE, TN



Test Requests

<http://www.bionetix-international.com/resources/getrequest.html>

Sample Submission

<http://www.bionetix-international.com/products/>



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Created: 06/2014



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