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In addition, successful bioremediation in marine environments requires that water containing the applied nutrients must be able to contact the oil. Oil that is sequestered (buried under layers of sediment that impede free water flow)

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may not benefit from applied nutrients.

**Bioremediation of marine oil spills:
when and when not ...**

Bioremediation of marine oil spills Roger C. Prince Bioremediation is a potentially important option for dealing with marine oil spills. Oil- degrading microorganisms are indigenous to the world oceans, but

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environmental constraints limit their activity and so a bioremediation strategy must be tailored to local conditions.

Bioremediation of marine oil spills - ScienceDirect

Abstract — Bioremediation of Marine Oil Spills — In the long run, biodegradation is the eventual fate of oil spilled at sea

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that cannot be collected or burnt.
Stimulating this biodegradation ...

(PDF) Bioremediation of Marine Oil Spills

Bioremediation of oil spills An oil spill is a form of pollution that involves the release of petroleum into the biosphere especially the waterways such as

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oceans, posing a huge threat to marine life.

Bioremediation of oil spills using microorganism

the practical problems of applying bioremediation technologies to marine oil spills, although advocates have suggested their use in the wake of

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several major spills. The problems associated with using bioremediation technologies in marine environments are fundamentally different from those associated with land-based applications. Although bioremediation

**Bioremediation for Marine Oil Spills
- OTA Archive**

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Bioremediation is any process that uses decomposers and green plants, or their enzymes, to improve the condition of contaminated environments. Specific bacteria can be used to bioremediate specific contaminants, such as hydrocarbons, which are present in oil and gasoline. Oil spills [...]

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Bioremediation of Oil Spills - Science World

Title: Bacteria and bioremediation of marine oil spills
Virtually all marine ecosystems harbor indigenous hydrocarbon-degrading bacteria. These hydrocarbon degraders comprise less than one percent of the bacterial community in unpolluted environments,

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but generally increase to one to ten percent following petroleum contamination.

Bacteria and bioremediation of marine oil spills (Journal ...

33) The natural rapid attenuation of oil in the BP Deepwater Horizon spill is due to a number of parameters, for example,

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type of crude, offshore, jetting of the oil in to the deep-sea, rapid dissolution, and microbial adaption. The Gulf of Mexico has more natural seeps of oil than any marine area in North America,...

Oil Biodegradation and Bioremediation: A Tale of the Two

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Petroleum Biodegradation Since the first wreck of a supertanker in 1969 (the Torrey Canyon oil spill in the English Channel), there have been over 40 major marine oil spills. After most of these catastrophes, such as the Argo Merchant oil spill off the coast of Massachusetts, the oil has moved away from shorelines and not caused any

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detectable ecological impact on pelagic marine life.

Petroleum biodegradation and oil spill bioremediation ...

These microbes will reduce, oxidize, ferment, and demobilize the constituents of oil spills over time, and create innocuous compounds.

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Bioremediation techniques involve using these mechanisms to reduce pollutant amounts and are dependent on pollutant aspects: Ex situ bioremediation

Bioremediation of oil spills - Wikipedia

Bioremediation is a potentially important option for dealing with marine oil spills.

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Oildegrading microorganisms are indigenous to the world's oceans, but environmental constraints limit their activity and so a bioremediation strategy must be tailored to local conditions.

**Bioremediation of marine oil spills:
Trends in Biotechnology**

The use of bioremediation is a preferred

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technique for cleaning up oil spills because it facilitates the process of naturally converting oil into non-toxic byproducts without any further local...

(PDF) Bioremediation of marine oil spill using beeswax

Bioremediation of oil spills Research into the bioremediation of oil spills in tropical

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Australia with particular emphasis on oiled mangrove and salt marsh habitats. This three-year project assessed short term effects of commonly transported oils and in situ bioremediation on tropical Australian mangrove and salt marsh habitats.

Bioremediation of oil spills -

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Australian Maritime Safety ...

Bioremediation Oil Spills Oil spills have become serious problem in cold environments with ever icrese in resource

exploitation,transportation,storage and accidental leakage of oils Bioremidation is a promising action for remedation it is effective and economic in removing oils

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with less undue environmental damages

Bioremediation Oil Spills | List of High Impact Articles ...

What are two common methods used in bioremediation of oil spills? ... Journal of Applied Microbiology. 102, 184-194. ... Microbiological Research. 162, 185-190. ... - A free PowerPoint PPT presentation

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(displayed as a Flash slide show) on
PowerShow.com - id: 227db4-ZDc1Z

**PPT - Bioremediation of Oil Spills
PowerPoint presentation ...**

Bioremediation for marine oil spills can be approached in two different ways depending on the case at hand. This includes bioaugmentation which involves

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introducing oil degrading microorganisms to the affected site, and also biostimulation which involves adding supplemental nutrients

Bioremediation of Marine Oil Spills **ABSTRACT**

4 Bioremediation for Marine Oil Spills
bioremediation may have a role in

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settings such as salt marshes and sensitive ecosystems where the use of mechanical or other approaches might do more harm than good. Just as for open water spills, however, appropriate protocols need to be developed for testing and applying bioremediation technologies in these

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Bioremediation for Marine Oil Spills (Part 5 of 11)

An oil spill is the release of a liquid petroleum hydrocarbon into the environment, especially the marine ecosystem, due to human activity, and is a form of pollution. The term is usually given to marine oil spills, where oil is released into the ocean or coastal

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waters, but spills may also occur on land. Oil spills may be due to releases of crude oil from tankers, offshore platforms, drilling rigs and wells, as well as spills of refined petroleum products and their by-products, heavier fuels us

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