

## Restoration of polluted environment and ecology of marine sediments by reducing Acid Volatile Sulfides

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**ABSTRACT:** Aquaculture is the process of cultivating or rather rearing of aquatic species, both plants and animals in controlled aquatic environment. Therefore, Sustainable Aquaculture involves the practice of maintaining increased livelihood from aquaculture production without creating adverse socio-economic or environmental impacts. Aquaculture is an environmental friendly process that should be encouraged in all agricultural platform. It can be done for commercial purposes, consumptions and educational purpose. Aquaculture is practiced all over the globe and it has greatly increased due to the advanced technology and knowledge gained through scientific research. There are various types of Aquaculture which include:

- Mariculture - the culture of seawater plants and animals (seaweeds)
- Fish farming - Breeding of fish for consumption
- Alga culture - Cultivation of algae

Cage systems, Raceways, Integrated Multi Trophic Aquaculture etc.

The global venture in aquaculture helps to improve freshwater and marine habitat by rebuilding species population which are threatened and endangered to extinction by humans. This decreases human effects on overfished aquatic environments.

In all that we do as humans there must be negative impacts, in this case the major challenge in aquaculture is pollution of water systems with excess nutrients generated from the cultured aquatic farms. In fish farming the fertilizers and feeds used contain chemicals that when used in excess, flow out from the farms into the rivers which becomes harmful to the environment. Some of the cultured species use other aquatic organisms as their feeds which will lead to depleting the wild fish species for feed formatting for the cultured fish.

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