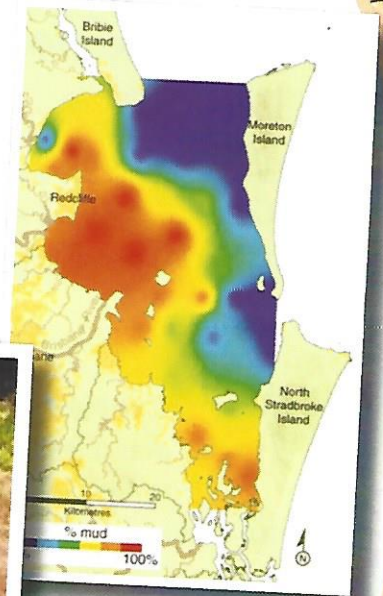


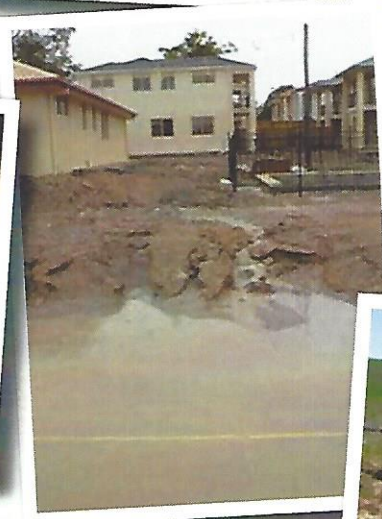
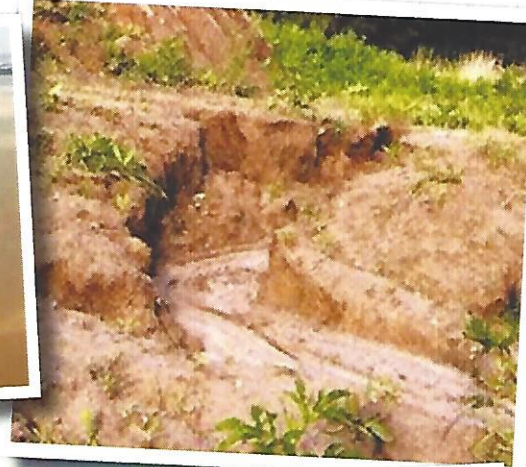
# Soil Erosion, Nutrients and Sediment Movement Control

## THE PROBLEM:

During Queensland's heavy rain event season including cyclones that occur regularly, our catchment areas are devastated by volumetric high powered runoff causing soil erosion and in many places land loss. The result is that this soil and sediment continues along our estuaries and rivers into our major bays and catchment areas causing considerable damage to marine life and water quality.



Silt and mud from the floods in Brisbane and Ipswich spread out over Moreton Bay.



## THE EFFECT:

Huge costs are involved in rectification processes for both businesses and government alike. Currently these rectification processes become undone when the next rain event occurs. Risk management and a reduction in maintenance and construction expense would be welcomed by everyone especially Government and business with considerable community and environmental benefit.





## THE SOLUTION:

Turf Queensland has undertaken a number of third-party scientific research programs to prove that the use of natural turfgrass as an environmentally friendly control medium works and provides cost reduction. Once established, natural turfgrass root growth has the holding power to maintain and stabilize river and creek banks.

Nutrient and sediment control test site results at Canungra (Gold Coast Hinterland) turf farm:

3 x 30M2 plots (Bare Earth, Sprigged, Full Sod) on 7degree slope, heavy rainfall January/February 2012.

BARE EARTH	SPRIGGED AREA	FULL SOD
60.5tonnes/hectare lost	35.8 tonnes/hectare lost	only 0.55 tonnes/hectare lost
9.1kg/ha phosphorus lost	3.2kg/ha phosphorus lost	only 0.1 kg/ha phosphorus lost



**Contact your local Turf Queensland member to discuss cost efficient methods to control erosion.**

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