

Table 21 Effects of pollutants on marine biota

Pollutants	Organisms	Effects	
Discharged Oil	Phytoplankton	Reduced Carbon fixation, cell photosynthesis and finally death.	
	Zooplankton	Clogged by the oil and sink to bottom	
	Mangrove vegetation	Mangrove swamps are highly vulnerable to oiling and oil residue.	
	Marine Mammals		Hampered on breeding.
			May die from ingestion oil causing liver damage
	Algae and sea weeds	Cell division is inhibited at oil concentration of 0.01ppm Sea weeds are clogged and smothered by oil.	
	Eggs and larvae		At concentration of 0.01 ppm crude oil hatching of fish eggs is irregular, late and deformed
			At 1 ppm of oil creates abnormal development of young lobsters
	Fish and shellfish		Locking of gills of fishes
			Retardation of growth
			Reduction by defence
	Benthos		Oil residues as tar balls creates acute toxic condition at the bottom
		Aromatic hydrocarbons cause pronounced mortality to the burrowing organisms	
Sea birds		Reduction of flying capacity due to excessive mixing oil with feather	
		Loss of buoyancy of birds	
		Reduction of shell thickness of eggs	
		Loss of breeding capacity	

Note: Source: Hossain (2011)