

Earthmoving: construction



Earthmoving: land clearing



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Erosion Controls

- Methods or measures used to control erosion, runoff & sedimentation.

Common Erosion Controls in the CNMI:

- Silt fence,
- Earthberms, &
- Ponding Basin

Erosion Control: silt fence



SILT FENCE

Erosion Control: ponding basin & earthberm



Impacts

- Soil erosion is an important social and economic problem and an essential factor in assessing ecosystem health and function. Estimates of erosion are essential to issues of land and water management, including sediment transport and storage in lowlands, reservoirs, and most especially our precious lagoon.

Impacts *cont'd*

- The deposition of sediment into a waterway can *significantly diminish the water quality and aquatic habitat*. Sediment deposition in a waterway makes the water more turbid and does not allow as much light to penetrate the water. This causes problems for aquatic plants that need sunlight in order to perform photosynthesis.

Impacts *cont'd*

- Furthermore, suspended sediments in the water have the potential of clogging the gills of aquatic organisms and covering the stream bottom. Deposition of sediment on the stream bottom can lead to the suffocation of fish eggs and benthic macro invertebrates and can cause the destruction of natural spawning substrate. Also, with an increased amount of particles in the water, dissolved oxygen levels are reduced because of higher water temperatures.

End Result:

