

# SITE SELECTION, POND DESIGN AND CONSTRUCTION

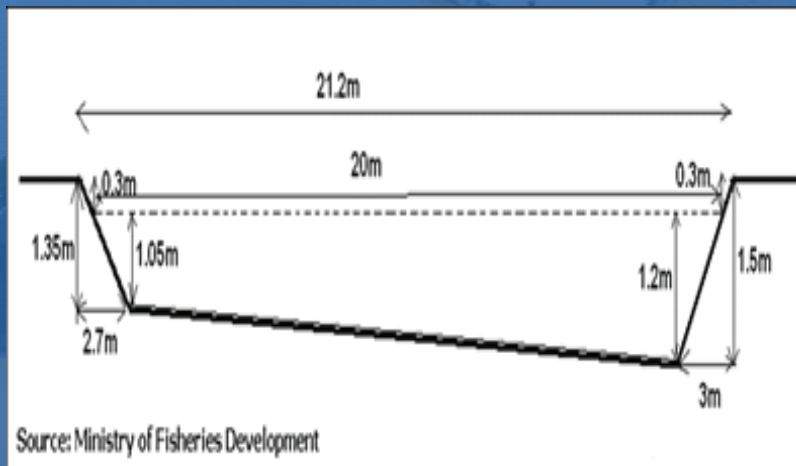
## Site Selection

Consider the following when choosing a site:

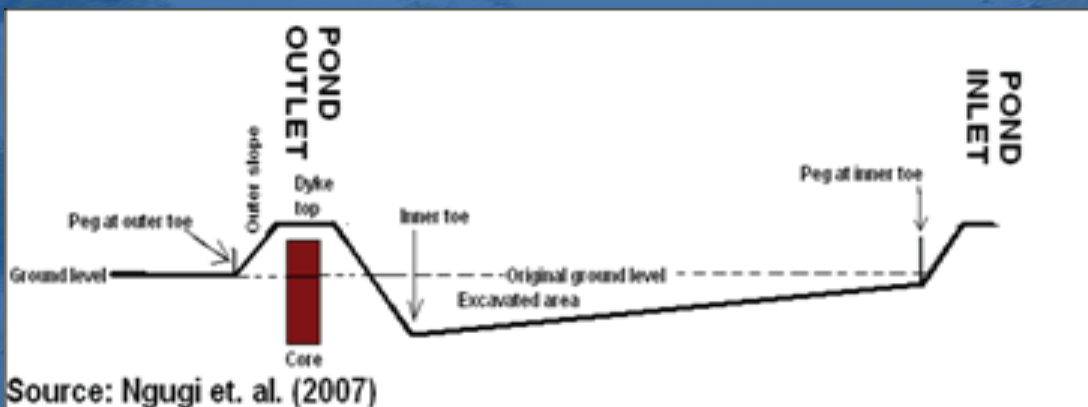
- **Water;** springs, streams, groundwater and rainwater are good water sources.
- **Soil;** the soil must have enough clay to ensure that the pond will hold water.
- **Environmental conditions;** water temperature should be suitable for the fish species.
- **Topography;** land should be relatively level (gentle slope of 1-3%).
- **Location;** the area should be accessible by road.
- **Legal issues;** relating to ownership of the land, use of water, disposal of effluents, public health issues must be addressed and necessary permits should be acquired.

## Pond design

Length wise section of the pond showing the various measurements. (Not drawn to scale)



A cross section showing the relationships of the dyke, inner and outer toes, and the core to the original ground level and clay layer beneath the pond bottom



## Pond construction

Steps in pond construction

- Prepare the area to construct the pond
- Mark out the pond, its inlet and drainage
- Construct the core trench
- Construct the pond walls (dykes)
- Construct the harvest basin



- Install the outlet pipe



- Install the inlet pipe
- Smoothen and compact the pond bottom
- Strengthen the dyke tops and free-board areas

