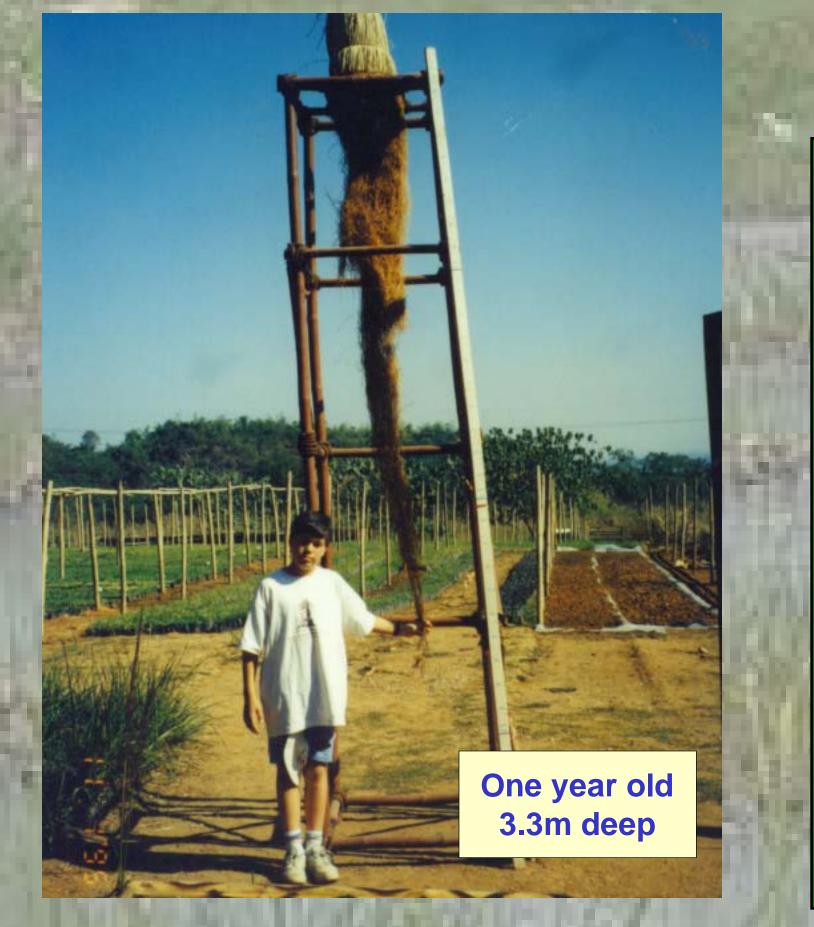


VETIVER SYSTEM FOR ALGAL BLOOM CONTROL

Paul Truong, TVN and DNR&M, Brisbane, Australia and Pham Hong Duc Phuoc, HCM City University, Viet Nam

The following extraordinary characteristics make vetiver grass highly suitable for algal bloom control: * Higher evapo-transpiration rate than most wetland plants * Highly tolerant to salinity, acidity, alkalinity and sodicity * Very high and fast absorption rate of nutrients, particularly * Highly tolerant to heavy metal toxicity Ammonia, total Nitrogen and Phosphorus * Highly tolerant to water logging and inundation

Hydroponics





Two month old roots (72cm) from a floating platform

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Left: Sewage effluent infested with Blue-Green algae due to high Nitrate (100mg/L) and high Phosphate (10mg/L) *Right:* Same

effluent after 4 days treatment with vetiver, reducing N level to 6mg/L (94%) and P to 1mg/L (90%)

Mastewater Purification

Vetiver on a floating platform to treat waste water of a pig farm at Dong Nai **Province**, Vietnam

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River 1*	River **	Тар
		water
13.8	10.5	0.1
71.0	58.1	
0.94	1.03	ND
99.3	93.7	
	71.0 0.94	71.0 58.1 0.94 1.03 99.3 93.7





