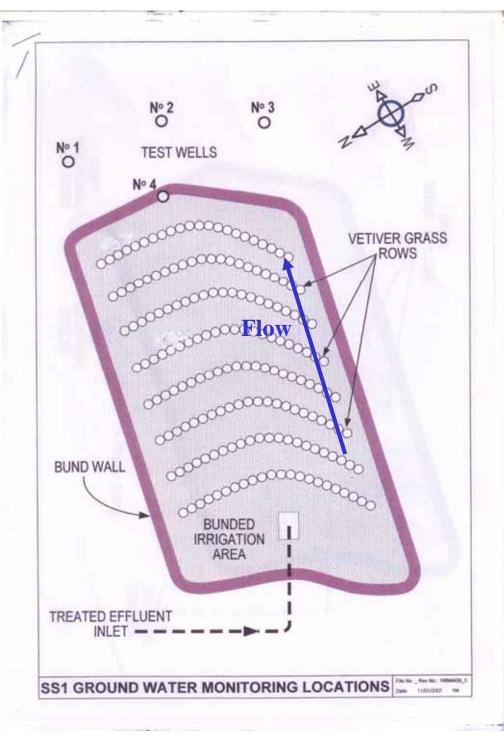
EFFECTIVENESS OF THE VETIVER SYSTEM IN TREATING SEWAGE EFFLUENT

Vetiver was planted to dispose sewage effluent from a small recreational airfield in Queensland, Australia

Paul Truong



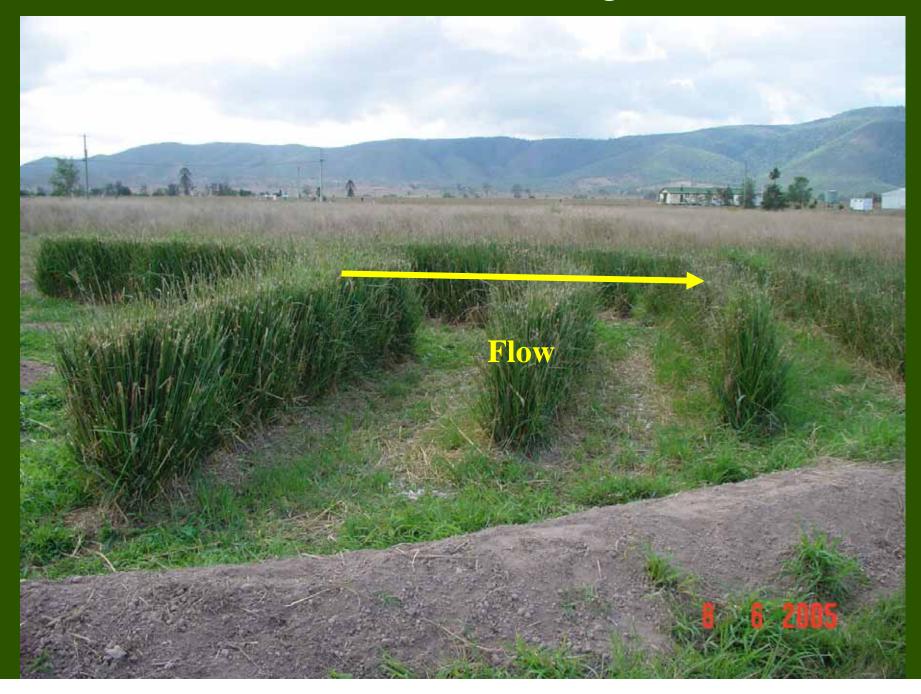
Planting Design

- 8 rows of vetiver
- 10m long each
- Inter-row spacing 1m
- Plant spacing 5-plants/ m
- Total plants 400
- Gravel trench 60cm deep
- Land area 100 sqm
- Bund wall W54 X H30cm

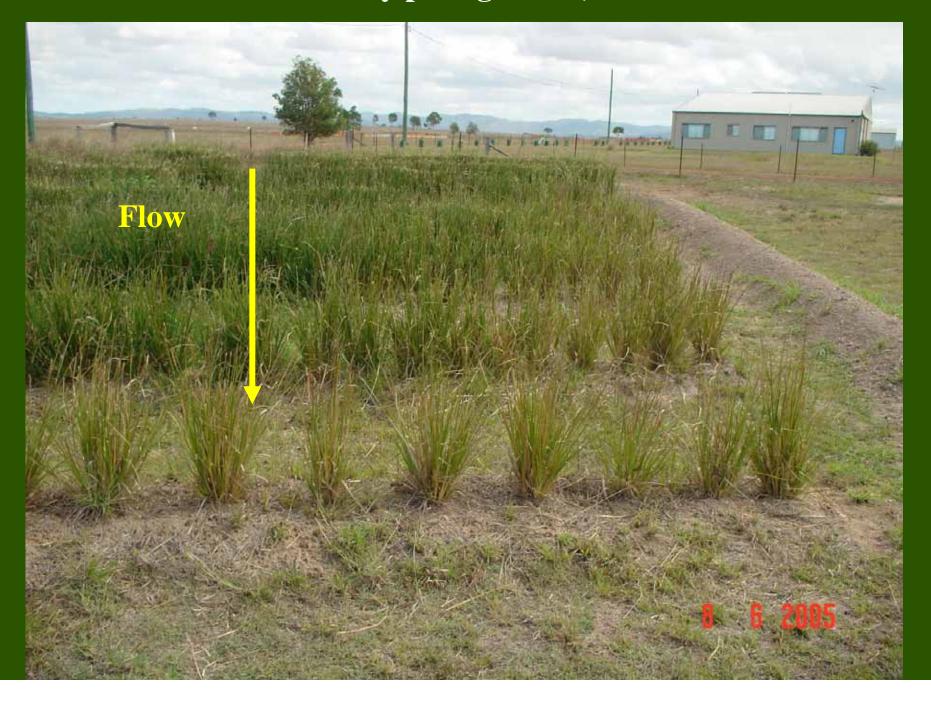
First year: The first few rows have excellent growth, but the last 2 rows are very poor due to lack of effluent



The first few rows have excellent growth



The last few rows have very poor growth, due to lack of effluent



Third year: Excellent growth, exceeding 2m.



Cutting down to 50cm every 3 months



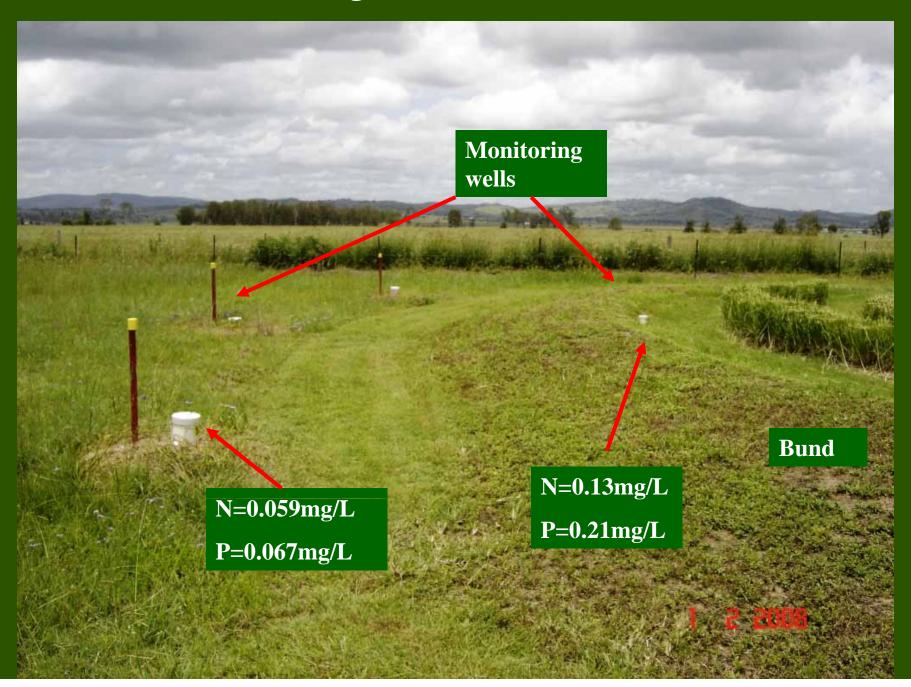




Properly maintained, note no weed in or between hedges



Monitoring wells and nutrient levels



Hay for mulch or fodder





INPUT

Average daily flow: 1 670L

Average total N: 68mg/L

Average total P: 10.6mg/L

Average Faecal Coliform:>8 000

SUMMARY

OUTPUT

Average daily flow: Almost Nil*

Average total N: 0.095mg/L

Average total P: 0.138mg/L

Average Faecal Coliform:<10

* Only flow after heavy rain

