Mine & Associated Rehabilitation Projects in Africa & the Indian Ocean Islands at Large Industrial Scale Application

by

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Introduction

Mining and associated rehabilitation projects in Africa and the Indian Ocean Islands have been successfully implemented jointly under the guidance and auspices of "The Vetiver Network International (TVNI) and the International Erosion Control Association (IECA) as a result of the interaction that has developed between the two organisations in Africa and on the Indian Ocean Islands.



It is recorded that practically 95% of the 53 countries on the entire African Continent (including Islands) have successfully implemented the Vetiver System for soil & water conservation over the past 20 years.

A short overview of projects in the following countries Illustrate current activities using the Vetiver System:

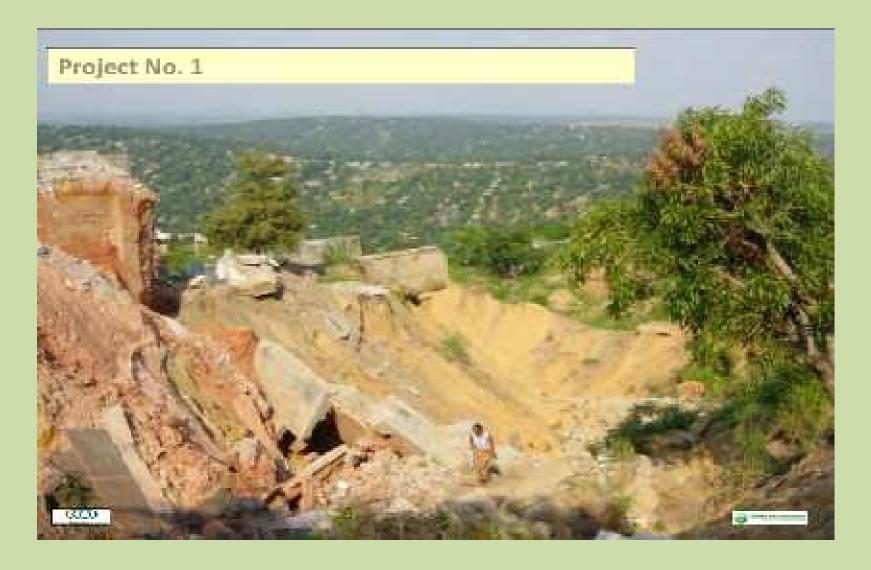
- 1.DemocraticRepublicofCongo
- 2.Congo-Brazzaville
- 3.Congo-PointeNoire/Brazzaville
- 4.Guinea
- 5.MadagascarA&B
- 6. SouthAfrica.

These case studies reflect the major Strides that have been achieved in Erosion & sediment control, bio-Engineering & vegetation restoration And the participation of local Communities in general.

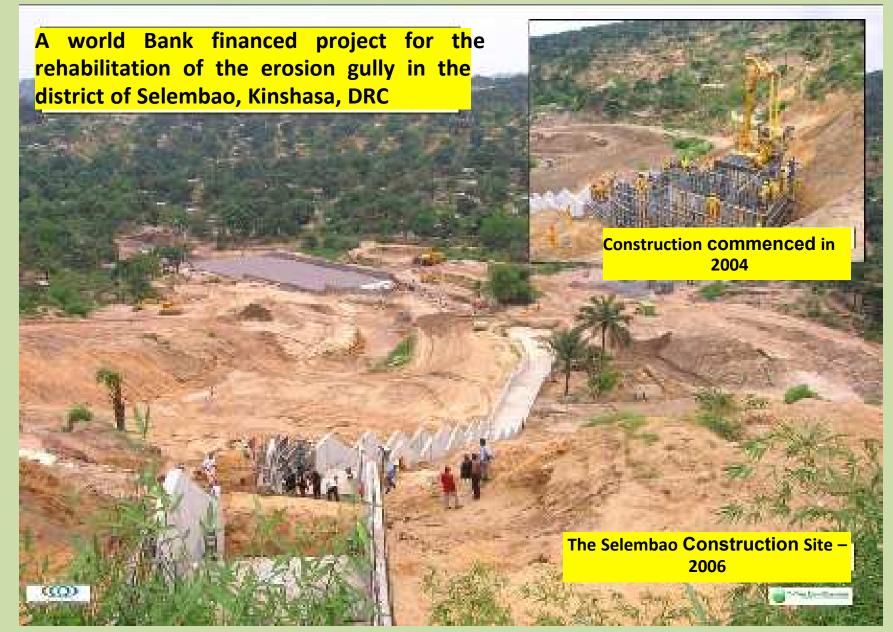




Project No. 1 - Selembao Project, Democratic Republic of Congo



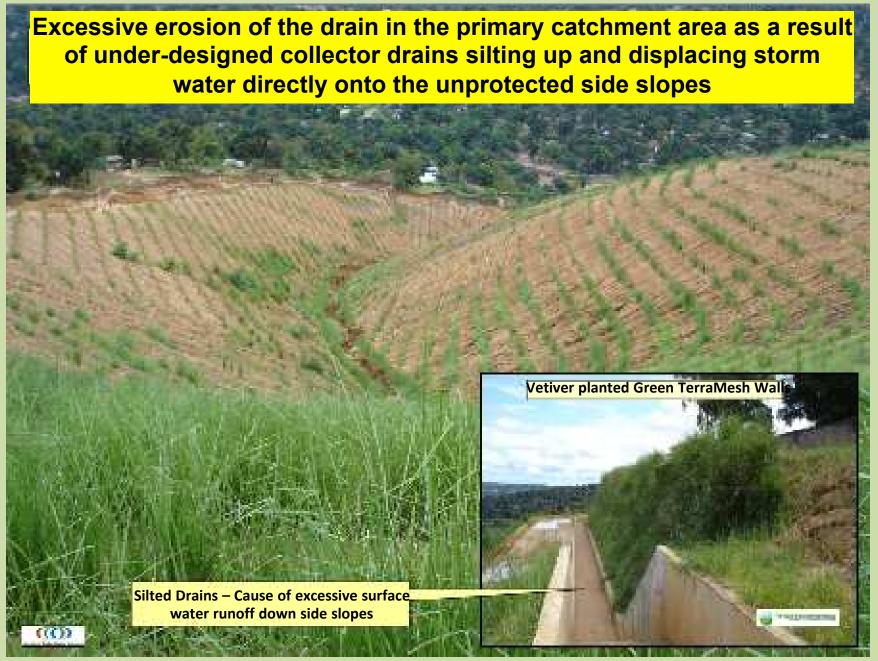




A total of 11.5 hectares was planted to Vetiver and then hydroseeded using locally harvested and commercial seed.





















80,000 Sand Bags were used for the stabilisation of the erosion gullies. Vetiver grass was planted into the Sand Bags.

The project where TVNI &
Hydromulch formed a
established working relationship
Dr. Paul Truong
Dr. Dale Rachmeler
Eng Alain Ndona
Roley Noffke









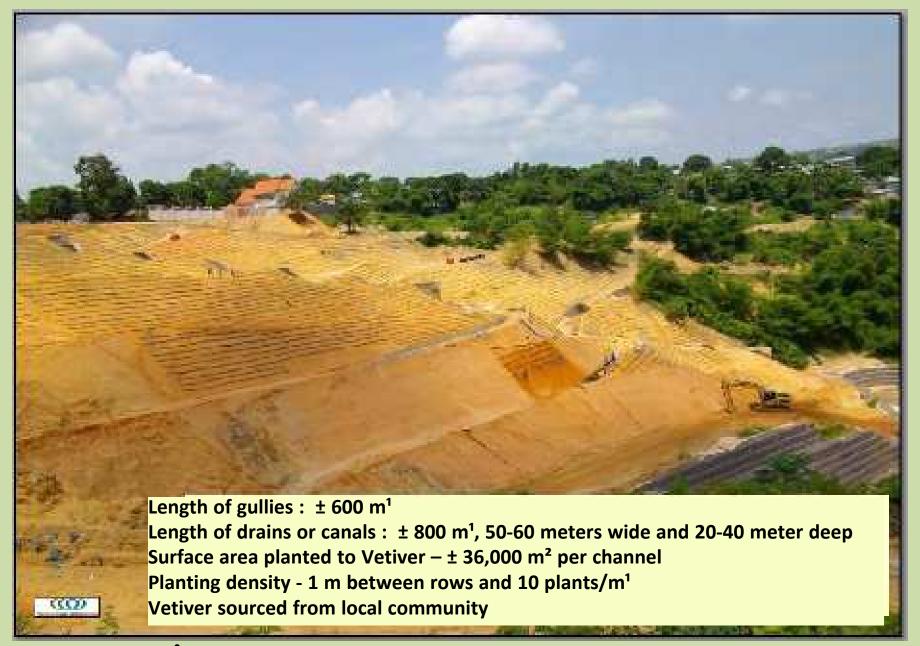
Project No.2 - Boukeni Erosion Gully Project, Brazzaville, Congo



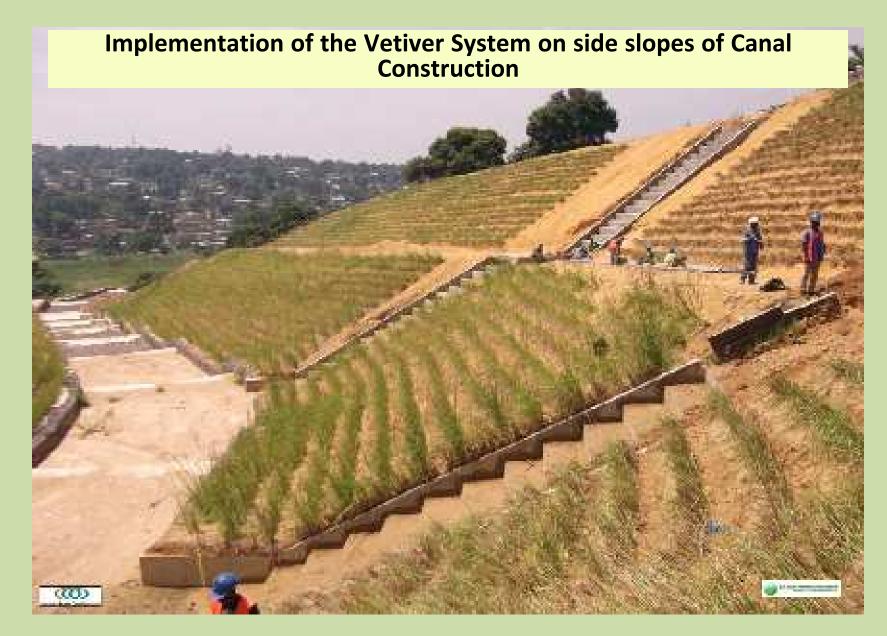




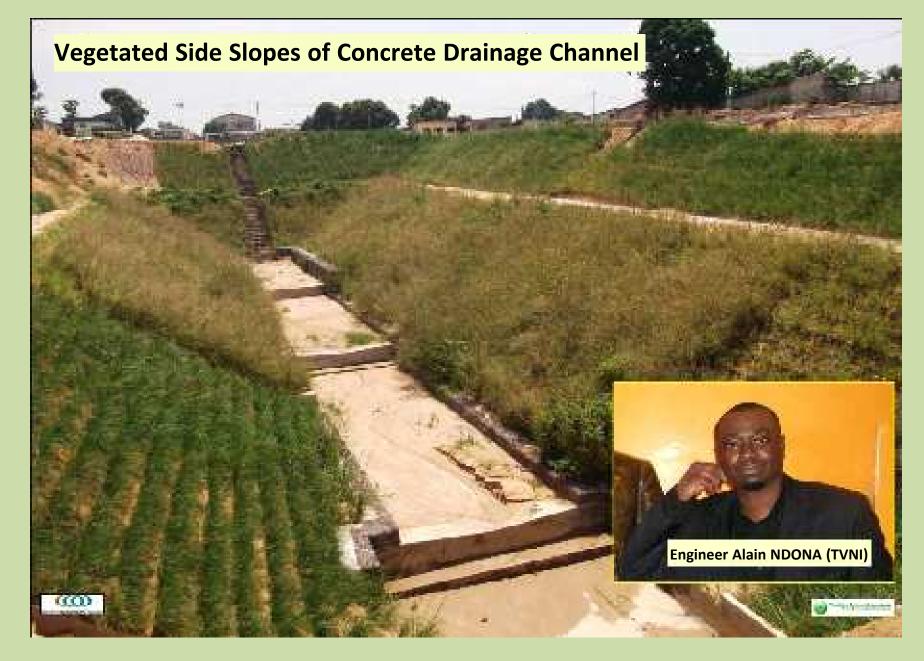




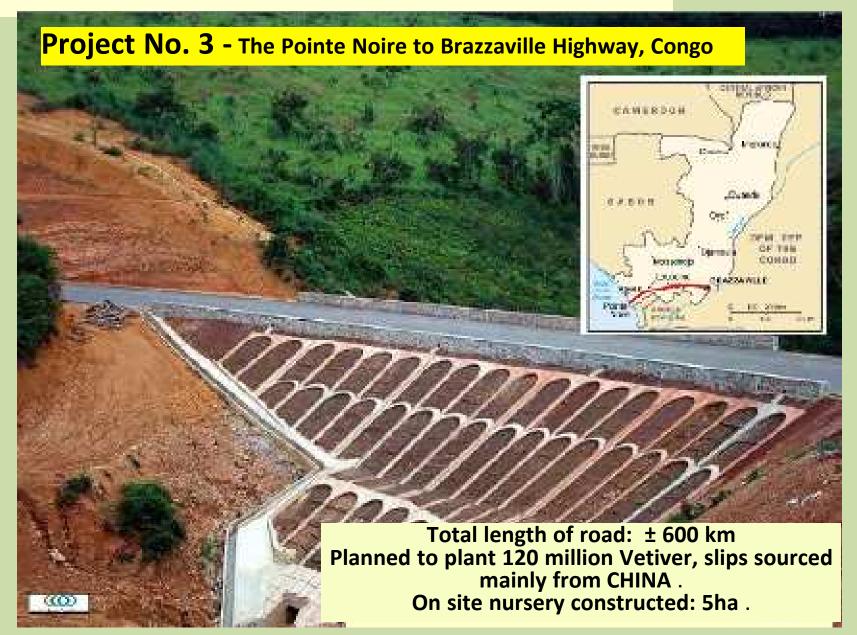






















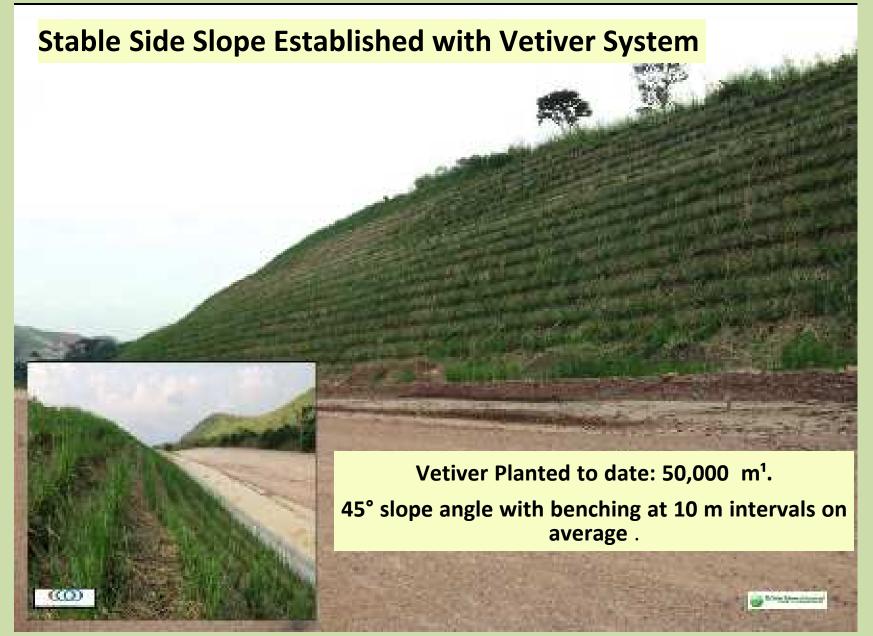
Construction by a Chinese company - China State Construction Engineering Corporation LTD (CSCEC). The consultant Engineers for the project- EGIS-INTERNATIONAL. Environmental & Bio-Engineering design and supervision - Engineer Alain NDONA.





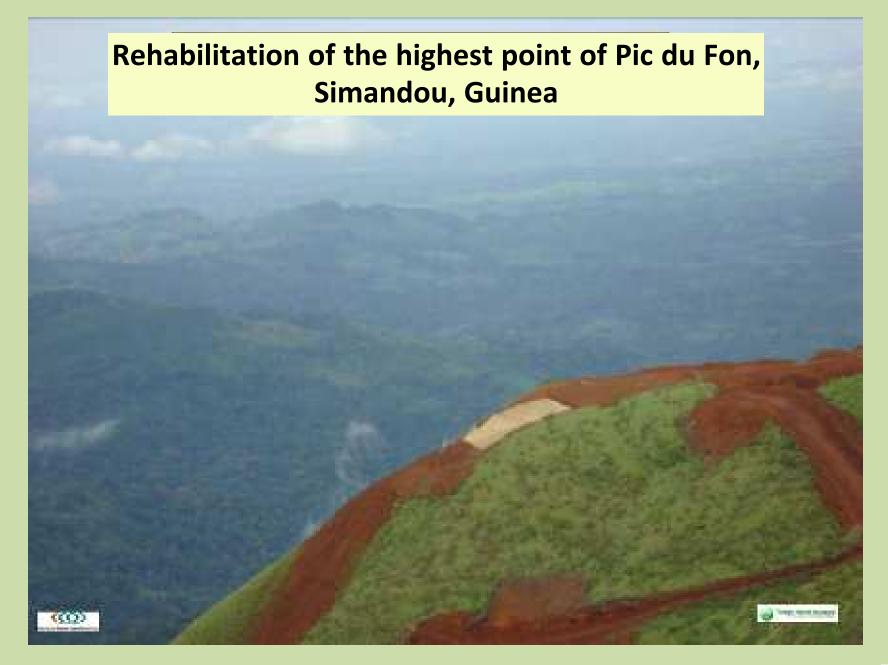








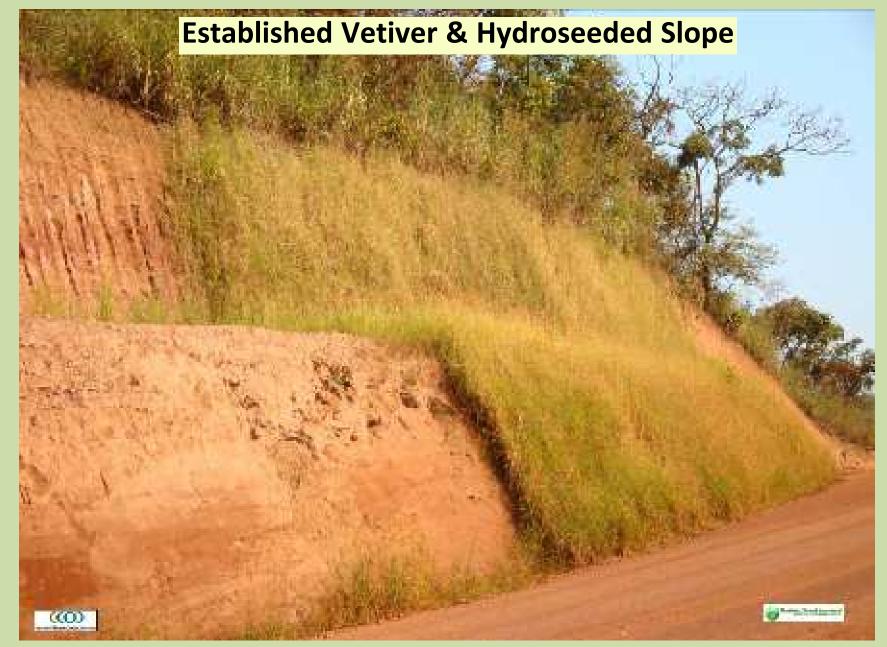
Project No. 4 - The Rio Tinto Project- Simandou, Guinea





Installation of Bio-Engineering Techniques & Hydroseeding on **Exploration Site for protection of chimpanzee habitat**











Madagascar - Projects

Projects 7 A – Rio Tinto/QMM Ilmenite Mine

Projects 7 B – Sherritt Mining Ambatovy Pipeline











Vetiver Sources

- Vetiver plant material was sourced from surrounding areas within a 50 km radius
- No planting material was imported or introduced from outside areas









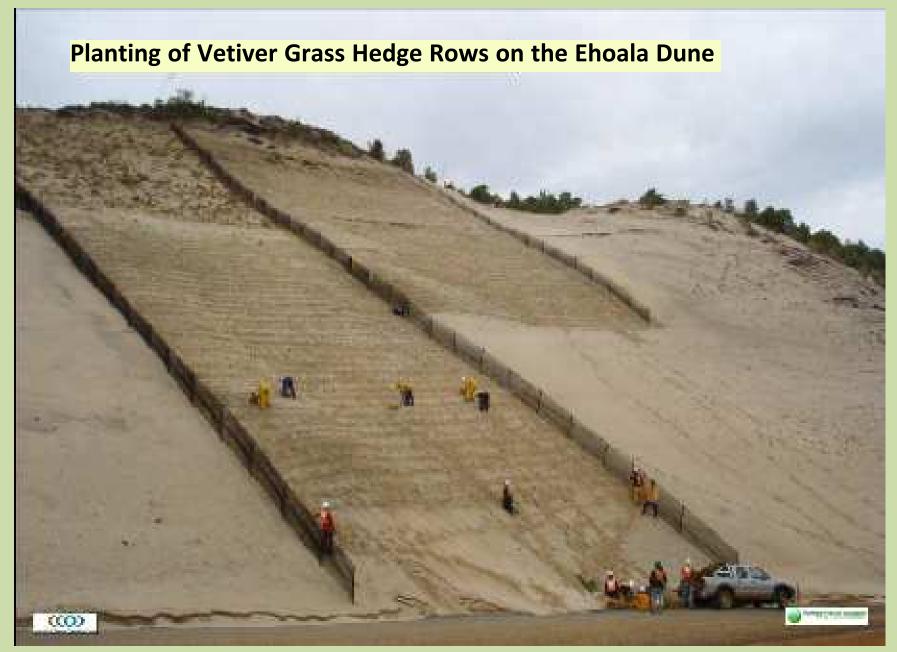




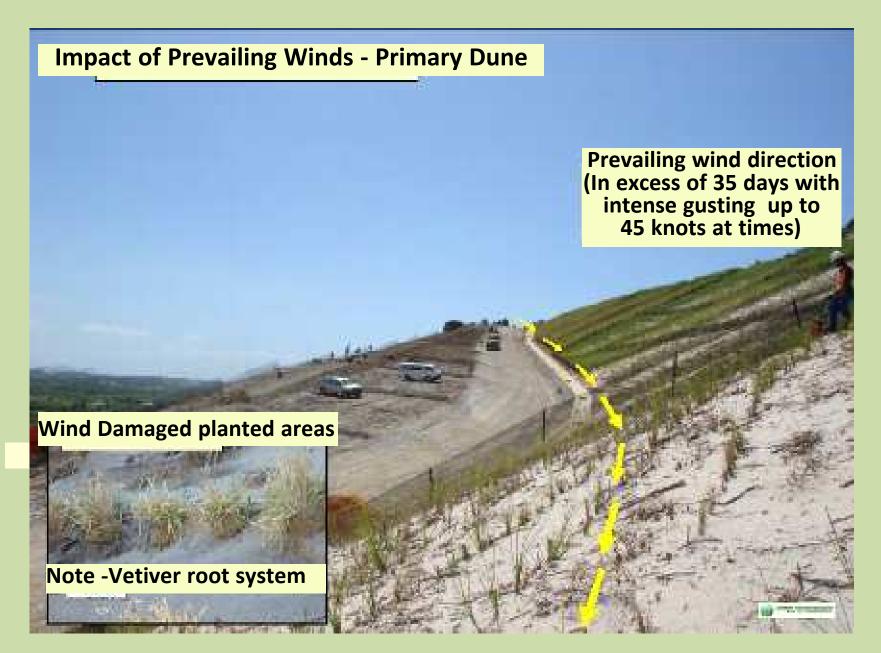
- Environmental work Started in 2006 with 15 communities, expanded to 32
- communities by 2008. 40 hectares were stabilized and re-vegetated.
- 4,000,000 Vetiver plants were propagated & supplied by local villagers.
- Assisted in setting up Vetiver nurseries and provided the necessary training
- of the local communities.



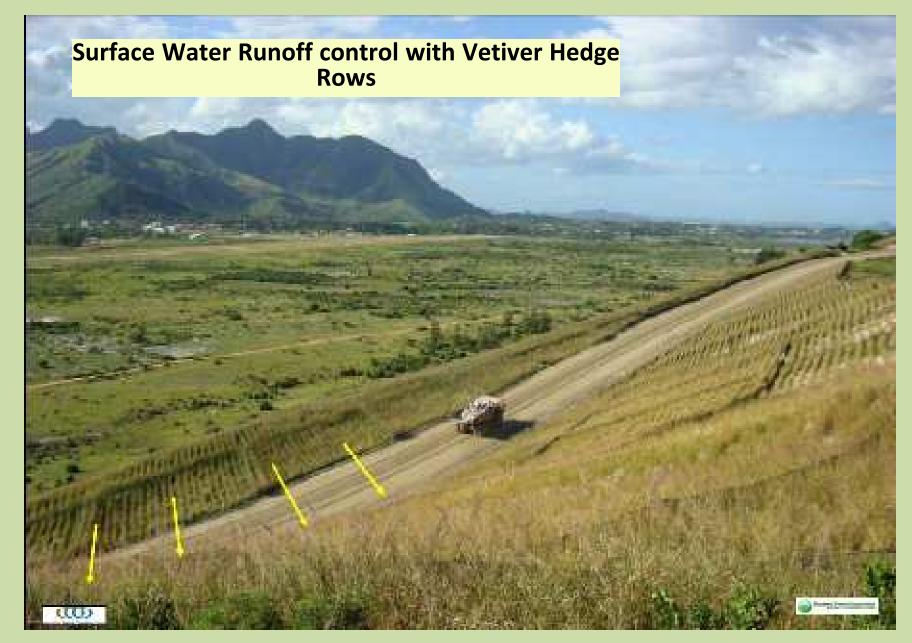




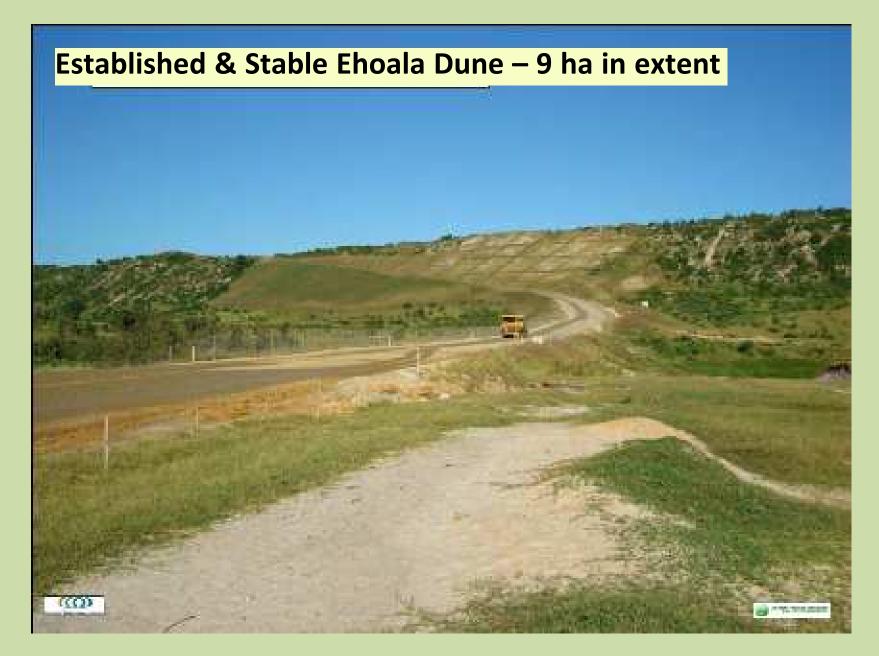














Project No. 7 B – Ambatovy Project, Moramanga to Tamatave, Madagascar













