

MAGOEBAKLOOF
EROSION CONTROL REPORT

The erosion control and vegetation establishment work carried out on the Magoebaskloof site was inspected by us and the following observations were made.



The Vetiver grass hedges have established well behind the rows of vegetation cylinders or compost rolls. The average height of the plants vary around 1200mm in the more fertile soils and around 450 mm along the steep slope areas where little soil is present. The various grass species incorporated into the hydroseeding mixture is clearly visible along the full, extent of the scarified side slope and is well developed.



The placing of topsoil and the planting of Aloes and other selected plants have resulted in an aesthetically pleasing vegetation cover along the full extent of the gabion walls.



The view of the protected side slope demonstrating the combined use of gabion walls and the erosion control methods deployed have successfully achieved the required stability. Little or no silt deposits can be observed along the full extent of the concrete side drains.



The basal cover of the selected grasses that have established between the rows of vetiver grass and vegetation cylinders or compost rolls will improve overtime. It is to be noted that little or no rill erosion has occurred as the runoff area is restricted by the rows of vegetation cylinders or compost rolls and vetiver grass.



The success of the combination of the various erosion control measures used to stabilise this side slope is clearly demonstrated.



The hydroseeded grasses between the rows of vegetation cylinders or compost rolls and vetiver grass hedge rows have established in the horizontally "scarified" or "ridged" rows.



A *Vetiveria zizanioides* (Vetiver) plant dug out from the side slope. The root system is well defined in spite of not being fully removed.

The vetiver plant is about 15 months old.



A well established side slope demonstrates the advantage of selecting suitable erosion control techniques.



The combination of the installed rows of vegetation cylinders or compost rolls, planted vetiver grass hedge rows, application of selected grass seeds incorporated into the hydroseeding mixture and with the gabion baskets has resulted in a stable environmentally acceptable vegetation cover being attained.

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