

- During the site inspection the proposed site was reduced from 10ha to 9.5ha because of the electricity poles and it is also next to the road.
- The applicant is assisted by Mondi Forests.
- The proposed site also consists of sandy and loamy soils that is suitable for timber to grow.
- The applicant is to establish 2ha per year for the benefit of teaching the children.

**HYDROLOGICAL IMPACT:**

**Quaternary Sub-Catchment W21A: 9.5 ha**

The reduction in low flow of the application is 0.03 % and will increase the reduction in low flow in the catchment to 25.37 %.

According to the SFRA tables, the Stream Flow Reduction Activity for this proposal has been determined to reduce the Mean Annual Runoff on the water resource by a rainfall equivalent of 97.2 mm. The volumetric reduction is estimated at 9234 m<sup>3</sup>/ annum. The smooth volumetric reduction is estimated at 6508 m<sup>3</sup>/ annum.


**RESERVEWATER BALANCE AND SECTION 27(1) REQUIREMENTS:**


Modelling has indicated that there is no water for forestry development as the Klipfontein Dam which supplies Vryheid with water runs very low during low rainfall years and the lower catchment of the Mfolozi has too little water during low flow periods especially the town of Mtubatuba.

**SUMMARY**

Although the catchment is stressed the impact of the proposed application will be relatively small and will have no significant impact on the downstream users. The plantation of 9.5ha will be used to teach the mainly black children the subject of forestry.

This office has no objection to the proposed afforestation, subject to the applicant being assisted with the establishment and management thereof.

SIGNATURE:  ..... DATE: 05/04/2013  
 CHIEF INDUSTRIAL TECHNICIAN

SIGNATURE:  ..... DATE: 5/4/2013  
 CONTROL INDUSTRIAL TECHNICIAN  
 WATER RESOURCES  
 KWAZULU-NATAL