

NELSPRUIT P.O. BOX 6215 NELSPRUIT, 1200

9 EHMKE STREET NELSPRUIT, 1200 MPUMALANGA SOUTH AFRICA Tel: +27 (13) 755-1190 Fax: +27 (13) 755-4904

website: www.endeconubuntu.co.za e-mail: ubuntu@endecon.co.za

OUR REF: N-2329/Gen/Out DATE: 29 November 2012

YOUR REF: 17/2/3N-210 ENQUIRIES: Wihan Venter

## **Deputy Director**

## **Environmental Impact Management**

Nkangala District Office

For attention: Martha Seshweni

Responsible Officer

Mam,

## REHABILITATION OF ROAD P127/2: REPLACEMENT OF CULVERT C7

Endecon Ubuntu (PTY) LTD herewith wishes to elaborate on the reasons for replacing Culvert C7.

Culvert C7 is structully damaged, and is failing in such a way that if maintenance is not done as a priority, then the road will fail to such an extent that it will need to be closed. (this can't be allowed, since the road is a main road transporting coal to Duvha powerstation.)



The culvert has already lost some of its spans, together with the outlet structure.

The remaining portion is showing signs of distress, where some of the foundation of the culvert have

already been washed out, causing the culvert to split in two with one side already sagging with

+50mm.

The process of maintenance that will be followed on this culvert, necessitates us to remove the

culvert, in order to secure the foundation of the culvert, and then to replace the culvert with like on

like. Since the culvert structure cannot be removed without damaging the spans, we need to replace

them with new spans.

It is our belief that there was a miscalculation during the initial design of the culvert structure, and that

the actual size of the structure should be 2 of 1.8 x 1.8m, instead of the 2 of 1.8 x 1.2. The new culvert

footprint will stay exactly the same and only the height of the culvert will differ.

To carry out the proposed maintenance, we will be utilizing existing farm bridge structures to divert

the traffic, and no work will be done to upgrade these farm bridges as they are of adequate size to

accommodate the traffic.

Yours faithfully,

JL Venter - Pr. Eng (Civil)

for ENDECON UBUNTU (Pty) Ltd