



To: P Mazibuko  
Senior Electrical Designer

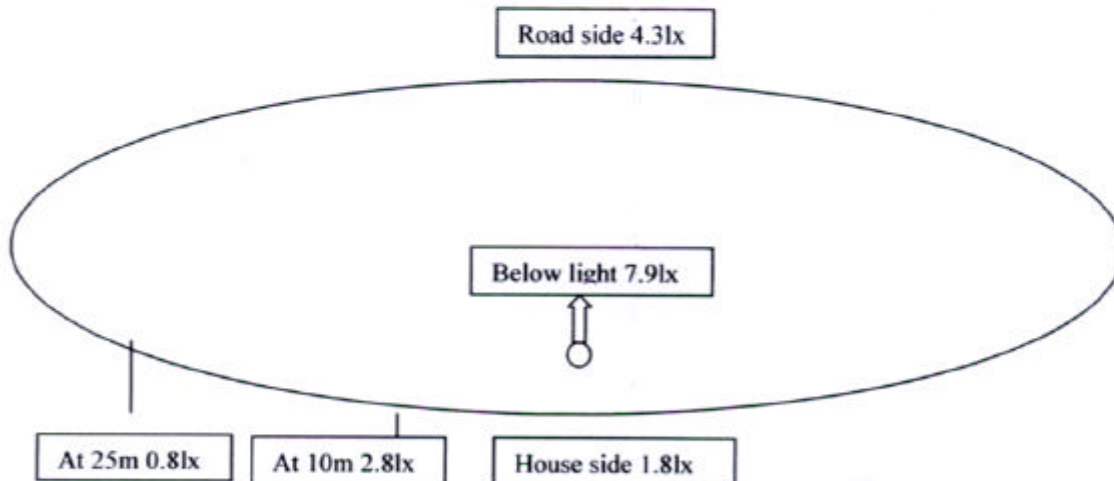
Date: 15<sup>th</sup> May 2009

From: B Mayo  
Senior Electrical designer

**Subject: Low energy street lighting luminaire**

I was approached recently by Keith Arnold, Energy Engineer, to investigate the 54 watt energy saver streetlight luminaire for possible replacement of existing 125 watt Mercury vapour currently used in the mine villages. Three of these luminaires were supplied by the distributor and installed in Golf Street, Linksfield by the town council. I was invited to visit the site and did so on the evening of the 14<sup>th</sup> May 2009 and found the lighting to be very effective and am impressed with the fully cut off feature of the luminaire.

It was estimated that the luminaires are mounted at +/- 8 metres above the road surface and with the aid of a lux meter the following readings were obtained.



I was furthermore surprised that at a spacing of 80 metres, not that they would be spaced so far apart, I obtained 0.25 lux at the midpoint.

I was informed that a number of samples had been given to the Electrical Foreman at Vaal River for testing purposes and the feedback from them is very positive. The luminaires have been in operation for approximately 3 months with no failures and no sign of light depreciation.

I recommend that a replacement program is put in place to replace the existing luminaires.

B Mayo  
Senior Electrical Designer