



## **REPORT ON ALTERNATIVES**

### **THE ESTABLISHMENT OF AN ASPHALT PLANT ON PORTION 57 OF THE FARM STRATHMORE 214, NELSPRUIT DISTRICT, MPUMALANGA.**

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**Site Information:**

Farm name and number : Strathmore 214  
Portion : 57  
21 Digit Surveyors Code : TOJU00000000021400057  
District : Nelspruit  
District Municipality : Ehlanzeni District  
Municipality  
Local Municipality : Nkomazi Local  
Municipality  
Site coordinates (Centre of site) : 25° 31'55.52"S and 31° 27'2.48"E

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## 1 Project Description

At-Road Construction (Pty) Ltd ("**the applicant**") seeks to apply for Environmental Authorisation ("**EA**") in terms of Section 24(G) and 24(F) of the National Environmental Management Amendment Act (Act No.62 of 2008) for rectification of the unlawful commencement of a listed activity – the establishment of an Asphalt Plant on Portion 57 of the farm Strathmore 214, Nelspruit District, Mpumalanga ("**site**").

This report provides more detail to alternatives that are/may have been possible had an environmental impact assessment been undertaken prior to the commencement of the above-mentioned activity.

## 2 Location Alternative

One location alternative for the Asphalt Plant was identified. This site is located on Portion 141 of the farm Alkmaar 286, Nelspruit District at the following coordinates:

25°26'53.93"S and 30°49'44.46"E

However, this location was decided against because of the environmental sensitivity of the site. This site is located in close proximity to numerous wetlands and river lines. This site has a high environmental sensitivity and the negative impacts of the Asphalt Plant on this site would have been too great. Therefore, it was not considered further. Please refer to figure 1 below for the location of the alternative and to figure 2 for a sensitivity map.

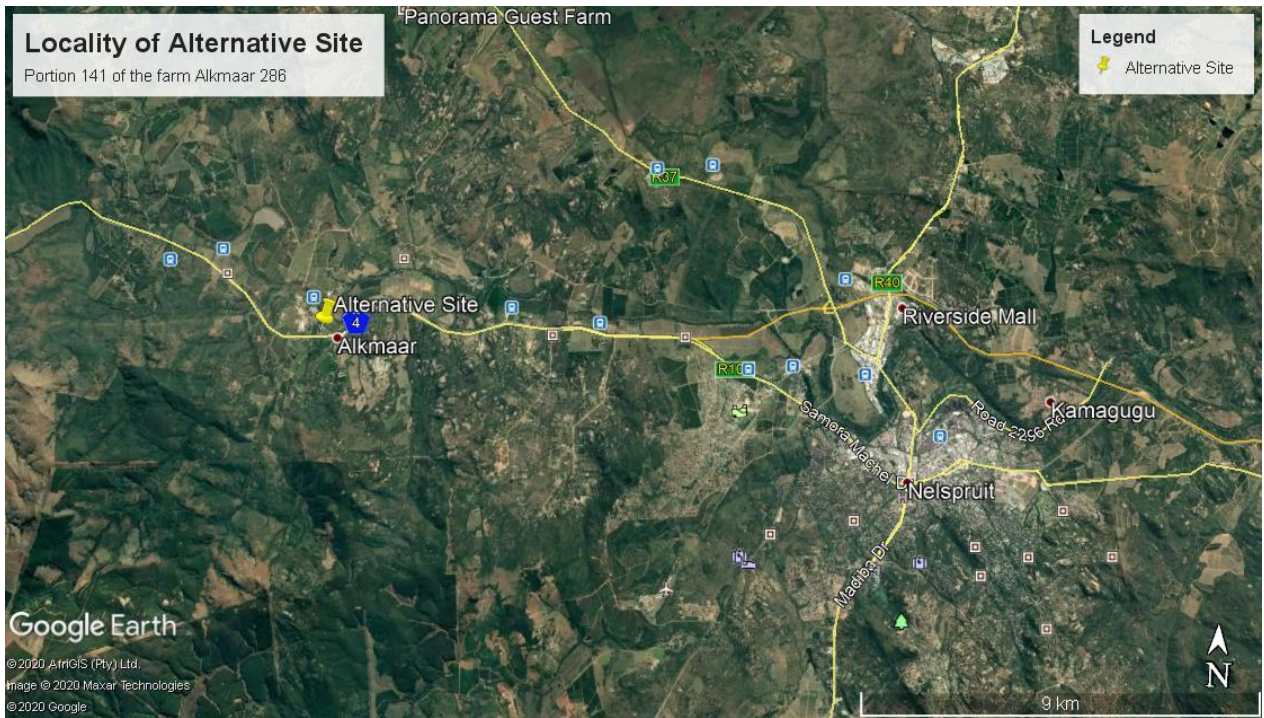


Figure 1: Google Earth locality of the Alternative Site.

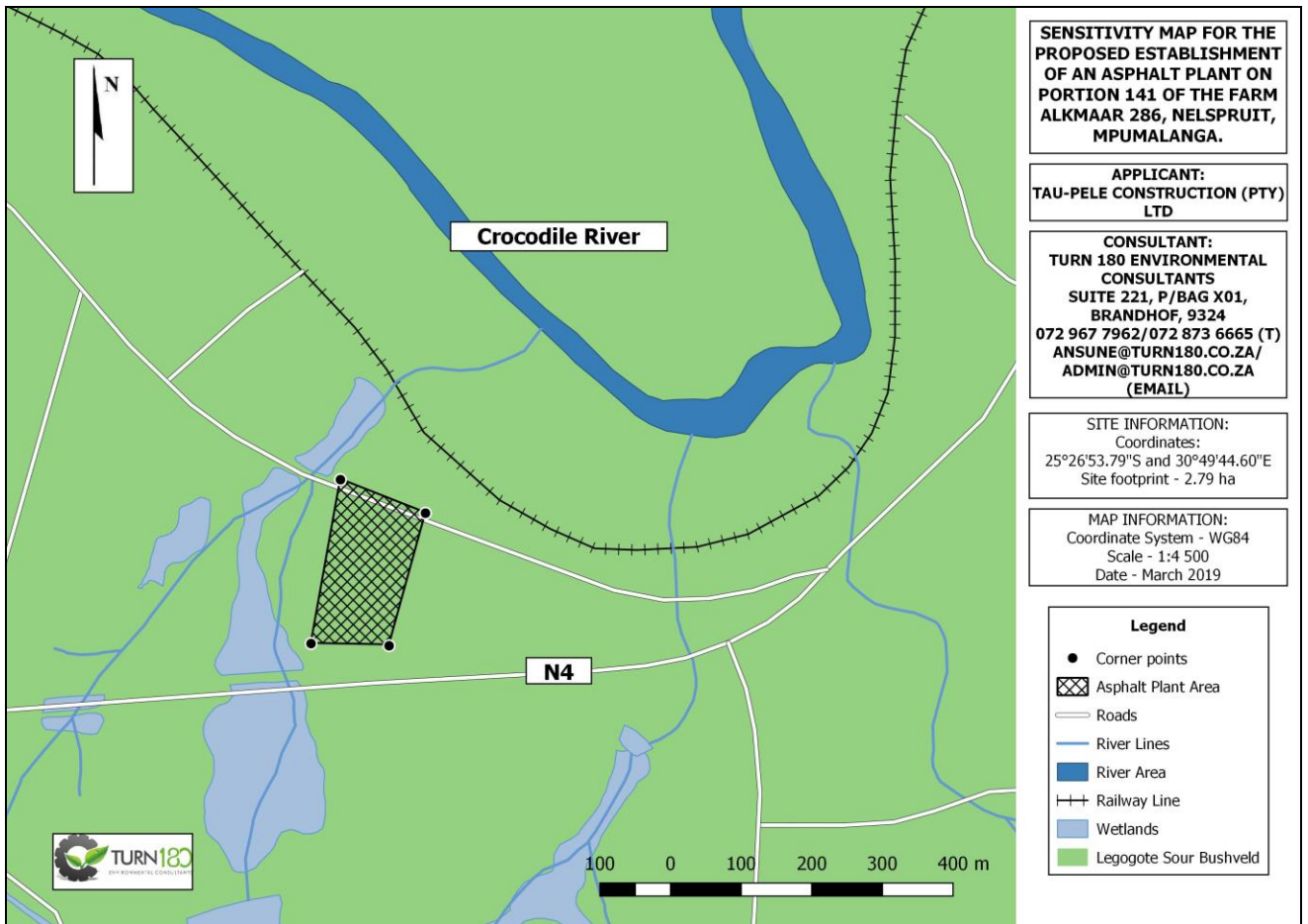


Figure 2: Sensitivity Map for the Alternative Site.

### 3 Design/Layout Alternative

There is no feasible design/layout alternative for this project that will be/was assessed due to the following reasons:

The applicant has extensive knowledge and experience in the operation of the Asphalt Plant and the layout of the site is usually designed in a manner to allow the most efficient and safest way of operation, storage of goods and transportation of material to and product from the plant. Please refer to figure 3 below for the layout of the Plant.

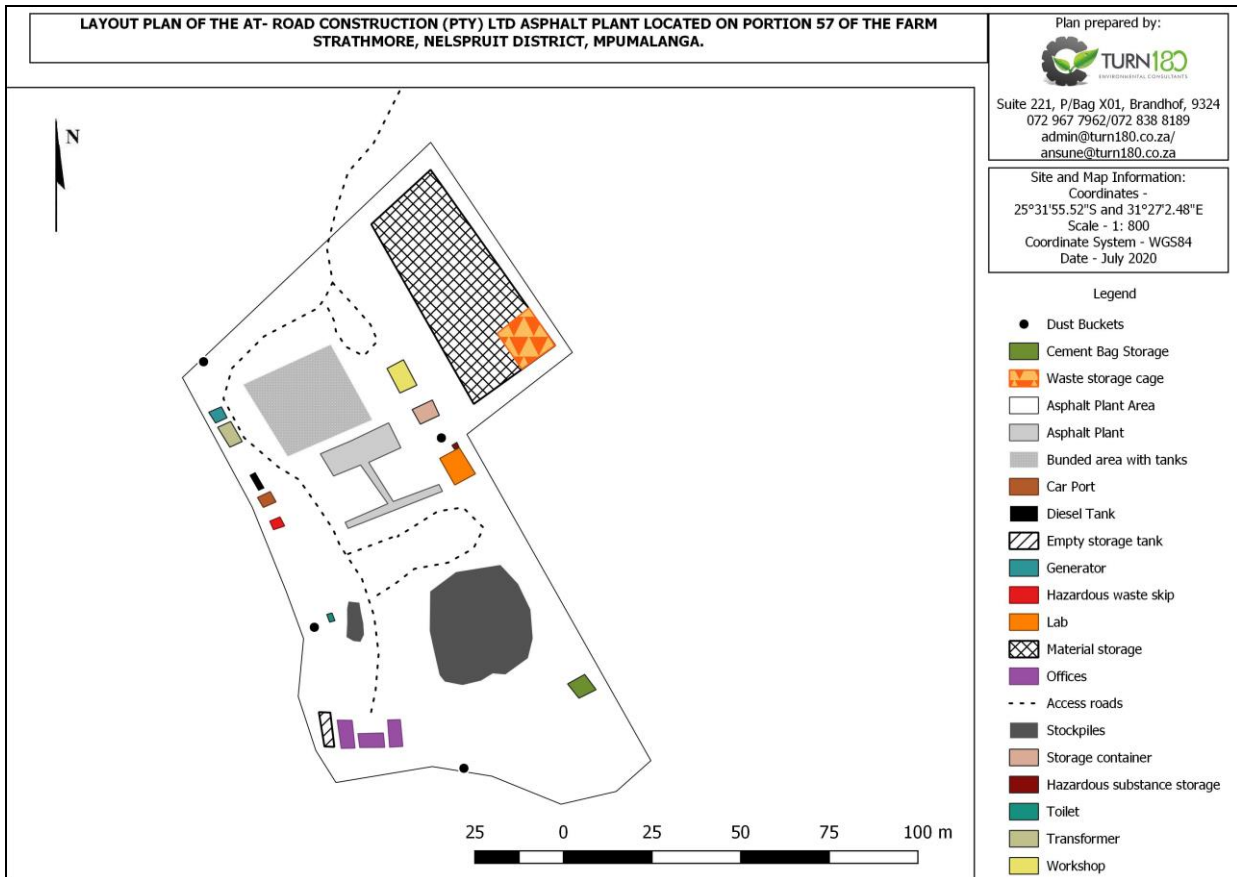


Figure 3: Layout of the Asphalt Plant.

### 4 Technological Alternative

As far reasonably possible, the best technology is utilised to limit and / or prevent impact on the environment. The type of tanks that are used for the storage of goods on site is of such nature as to minimise "breathing losses" into the atmosphere. All dangerous substances stored at the plant is stored in a bunded area which can contain 110% of the volume of the substance. An air emission monitoring program will be implemented to verify compliance to the air emission standards in terms of the NEM:AQA. A dust monitoring programme is already in place.