In early 2013 PolyCom was used to stabilize a moisture sensitive clay gravel material utilized in the Plutonic Mine Site Airstrip reconstruction works. The airstrip is approximately 2100m in length and 30m wide. Due to the sensitive nature of the material the client decided to treat the airstrip to a depth of 200mm in order to ensure the airstrip could remain open for longer periods through wet weather, additionally assisting in the reclassification of the airstrip with a higher PCN therefore allowing the use of jet aircraft on the dirt strip.

Above is the total amount of PolyCom required to treat the airstrip to a depth of 200mm

\[2,100 \text{m (L)} \times 30 \text{m(W)} \times 0.2 \text{m(D)} = 12,600 \text{ Cu M Compacted Volume}\]

\[12,600 \text{ Cu M} / 25 = 504 \text{ Kg's PolyCom in total}\]
Application Method

A combination of Dry spreading the scarified surface and conventional blade mixing and watering ensured a homogenous mix at Optimum Moisture Content was realised prior to rolling.

Conventional Rolling Practice ensured a high degree of compaction was achieved during the construction phase which resulted in high CBR values being realized.

Clegg Hammer Result showing CIV 57 which equates to CBR 227 % (Very Strong)
Post construction the pavement has continued to perform well through all weather conditions including significant storm events allowing the Airstrip to stay open for significantly longer during bad weather.

Subsequent testing after wet weather has confirmed the pavement has remained serviceable with pavement strength being maintained through the use of PolyCom.

The client, Barrick has indicated that they are very happy with the outcome and have used the PolyCom product on other projects within the Goldfields Region.
Clegg Hammer Results supplied by Barrick after 25mm of rain over night confirms the Pavement strength of the treated material will enable the airstrip to be used through significant wet cycles.