



REHABILITATION OF EMBANKMENT SCOUR

STRUCTURAL SOIL NAIL WALL & ARCHITECTURAL SHOTCRETE

Wollongong City Council engage RIX Group for the rehabilitation of the embankment scours behind the roadside barrier kerb between Kurraba Road and Woonona Beach. This project was managed by Keshab SUBEDI and the works involve excavation, soil nailing, placement of no-fines concrete, shotcreting and pavement reconstruction.

This was a complex multi-discipline project with various activities that were completed to the full satisfaction of the Principal to the highest quality.

The Wollongong council is going to promote the architectural shotcrete technique among other councils along NSW South Coast.

A very diligent approach was implemented to achieve the best colour to match the surrounding rock strata. The investigation started from assessing 11 different shotcrete oxides and shortlisting them into three pigments which best matched the rock matrix. Then, several different combinations of shotcrete oxide and five stains were examined until the most natural look was selected.

After the completion of the works, not only the location of the soil nails under the shotcrete layers are completely unrecognisable, but also the shotcrete surface was hardly distinguished from rock by some of the client's visitors.

The works were described by the client as "excellent".

CLIENT: Wollongong City Council

LOCATION: Kurraba Road, Woonona NSW

SCOPE: Soil nails;
Steel reinforced shotcrete;
200m² architectural shotcrete

VALUE: \$450k

COMPLETION: 2020