

The Equipment & Techniques Committee

Eco and BP anchor long term test bed anchor placement report 20th October 2012

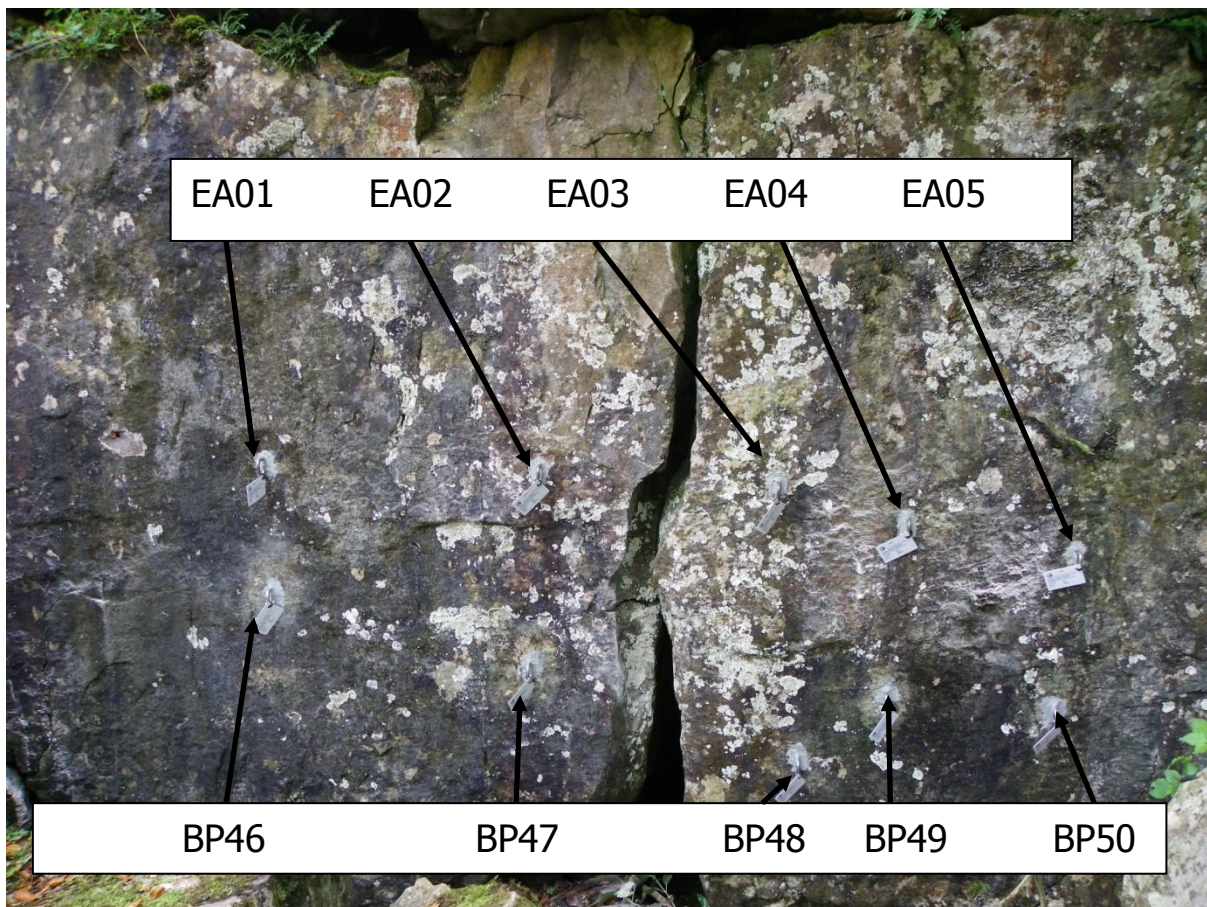
Location: Yordas gorge, West Kingsdale, North Yorkshire NGR: SD705792

Climatic conditions: Temperature 10°C, no precipitation

Progressive long term test bed

On 20 October 2012 five Eco anchors were installed in the cleaned holes of the previous test bed. The Eco anchors were installed using KMRES AUG 2012 to the installation procedure, as defined in the document Installation Procedure, Training and Documentation as approved by the BCA AGM 2010.

On 20 October 2012 five BP anchors were installed. The BP anchors were installed using KMRES AUG 2012 using the installation procedure, as defined in the document Installation Procedure, Training and Documentation as approved by the BCA AGM 2010. Issue 5 - Updated 13 December 2011 for installing BP anchors.



Placement notes

Eco anchor 01. The anchor was installed in a re-drilled hole of the original test bed. The hole was brushed and washed with a pressure washer and then dried. The hole was visually examined with a camera probe and it appeared that the hole had not intersected any subsurface fissures. The surface of the substrate was visually solid in appearance.

Eco anchor 02. The anchor was installed in a re-drilled hole of the original test bed. The hole was brushed and washed with a pressure washer and then dried. The hole was visually examined with a camera probe and it appeared that the hole had intersected a vertical fissure that was about 50mm from the surface and radiated around the drilled hole. The surface of the substrate had a vertical fissure either side of and within 6-7cm. of the placement.

Eco anchor 03. The anchor was installed in a re-drilled hole of the original test bed. The hole was brushed and washed with a pressure washer and then dried. The hole was visually examined with a camera probe and it appeared that the hole had not intersected any subsurface fissures. The surface of the substrate was visually solid in appearance but did have a calcite veneer of about 2mm thickness.

Eco anchor 04. The anchor was installed in a re-drilled hole of the original test bed. The hole was brushed and washed with a pressure washer and then dried. The hole was visually examined with a camera probe and it appeared that the hole had intersected a vertical fissure about 75mm from the surface that radiated around the drilled hole. The surface of the substrate had a damp vertical and horizontal fissure within 5cm. of the placement.

Eco anchor 05. The anchor was installed in a re-drilled hole of the original test bed. The hole was brushed and washed with a pressure washer and then dried. The hole was visually examined with a camera probe and it appeared that the hole had not intersected any subsurface fissures. The surface of the substrate had a damp horizontal fissure within 5cm. of the placement and a damp vertical fissure within 4-5cm. of the placement.

Anchor BP46. The anchor was installed in a 16mm diameter hole. The hole was brushed and washed with a pressure washer and then dried. The hole was visually examined with a camera probe; the hole had not intersected any fissures during drilling. The surface of the substrate appeared visually sound.

Anchor BP47. The anchor was installed in a 16mm diameter hole. The hole was brushed and washed with a pressure washer and then dried. The hole was visually examined with a camera probe and it appeared that the hole had intersected a horizontal fissure that ran from the surface to the bottom of the hole on the left hand side. The surface of the substrate had a horizontal fissure about 5cm. above the placement which was damp. There was also a damp vertical fissure within 5cm. on the left hand side of the placement.

Anchor BP48. The anchor was installed in a 16mm diameter hole. The hole was brushed and washed with a pressure washer and then dried. The hole was visually examined with a camera probe; the hole had not intersected any fissures during drilling. The surface of the substrate appeared visually sound.

Anchor BP49. The anchor was installed in a 16mm diameter hole. The hole was brushed and washed with a pressure washer and then dried. The hole was visually examined with a camera probe; the hole had intersected a horizontal fissure which ran from mid-hole (50cm.) to the base of the hole. The surface of the substrate appeared visually sound.

Anchor BP50. The anchor was installed in a 16mm diameter hole. The hole was brushed and washed with a pressure washer and then dried. The hole was visually examined with a camera probe; the hole had not intersected any fissures during drilling. The surface of the substrate appeared visually sound.



Example of Eco placement



Example of BP placement