

File ref:

County: Nottinghamshire **Site name:** Styrrup Quarry

District: Bassetlaw

Status: Site of Special Scientific Interest (SSSI) notified under Section 28 of the Wildlife and Countryside Act 1981 (as amended).

Local Planning Authority: Bassetlaw District Council

National Grid Reference: SK 605902 **Area:** 0.3 (ha) (ac)

Ordnance Survey Sheet 1: 50 000: 111 **1: 10 000:** SK 69 SW

Date Notified (Under 1949 Act): **Date of Last Revision:**

Date Notified (Under 1981 Act): 27.03.1998. **Date of Last Revision:** -

Other Information:

This is a Geological Conservation Review site.

Description and Reasons for Notification:

Styrrup Quarry is a non-working quarry lying at the south-western edge of the village of Styrrup in north Nottinghamshire.

The north-eastern face of the quarry provides an extensive exposure of the Nottingham Castle Formation (Sherwood Sandstone Group, Triassic). The face shows a succession of accreted sand bodies in a section approximately at right angles to the palaeocurrent direction. As such, the section is complementary to that seen in the nearby Scrooby Top Quarry, where exposures are parallel to the current direction. Study of both sites together is therefore essential to the understanding of the facies of the Nottingham Castle Sandstone.

The bounding surfaces between the larger packages of sediment seen at Styrrup have a lenticular form and a hierarchy of such surfaces can be recognised. The most persistent surfaces are interpreted as representing the migration of the channel belt. Lower order forms are interpreted as defining laterally and vertically accreted packages of sediments and the form of second order channel fills. Study of these structures provides a valuable insight into the nature of British Triassic palaeoenvironments and depositional processes.

Styrrup Quarry is a key site for studies of Triassic fluvial sediments and has additional educational potential.