

Warwickshire Geological Conservation Group

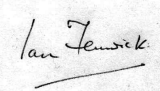
Warwickshire Local Geological Site	
Site No: 50	Avonhill Quarry
Geological Formations	Dyrham Formation (Jurassic) Marlstone Rock Formation (Jurassic) Whitby Mudstone Formation (Jurassic)
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Local Geological Sites (LoGS), designated by locally developed criteria, are currently the most important places for geology and geomorphology outside statutorily protected land such as Sites of Special Scientific Interest (SSSI). The designation of LoGS is one way of recognising and protecting important Earth science and landscape features for future generations to enjoy.

WGCG is responsible for the identification of LoGS in Warwickshire and the West Midlands.

Please note that designation of a site as a LoGS does not confer a legal right of access. Unless the site is on a designated public right-of-way, the landowner's permission is required before visiting.

Warwickshire Local Geological Site - Criteria Form

Site name: Avonhill Quarry		Also known as:	
District: Stratford on Avon		County: Warwickshire	
Grid reference: SP 4165 5065 (centroid) SP 4173 5076 (Marlstone Rock Fm. & Whitby Mudstone Fm.) SP 41641 50743 (Dyrham Fm.)		LoGS Number: 50	ESCC Class: ED
Brief Description: A quarry exposing fossiliferous Dyrham Formation, Marlstone Rock Formation & basal Whitby Mudstone Formation (Lower Jurassic)			
This site qualifies as a Local Geological Site for the following criteria:			
A Good Example of fossiliferous Dyrham Formation, Marlstone Rock Formation and Whitby Mudstone Formation.			
Educational Fieldwork			
1. Educational Potential	✓	2. Physical access	✓
		3. Safety	✓
Scientific Study			
1. Diversity of interest	✓	2. Rarity of interest	✓
		3. Size of feature	✓
4. Typicalness of feature	✓	5. Geological/physiographic linkage to: <i>Burton Dassett Hills (33), Edge Hill Quarries (35), Meon Hill Barn(36), A422 Quarry, Hornton (59), Humpty Dumpty Field, Ilmington (77), Warmington Marlstone exposure (85) & Edge Hill Farm Quarry (88).</i>	
Historical Value			
1. Celebrity link		2. Pioneering research	
		3. Historical link	
Aesthetic Value In The Landscape			
1. Local importance in the landscape		2. Promotion of Earth science	
Signed		Date first selected 21 November 2001	
 I M Fenwick, Chairman, Warwickshire Geological Conservation Group		Reviewed by LoGS panel Oct. 2009	
		Further survey required	
		LoGS Confirmed ✓	
Endorsed by			
Warwickshire Museum		Natural England	
J Radley, Keeper of Geology		J A Irving, Conservation Adviser	
In the event of any development or planning consultation relating to this site or its surrounds please inform: The LoGS Officer WGCG, c/o Keeper of Geology, Warwickshire Museum, Market Place, Warwick CV34 4SA (tel: 01926-418182)			

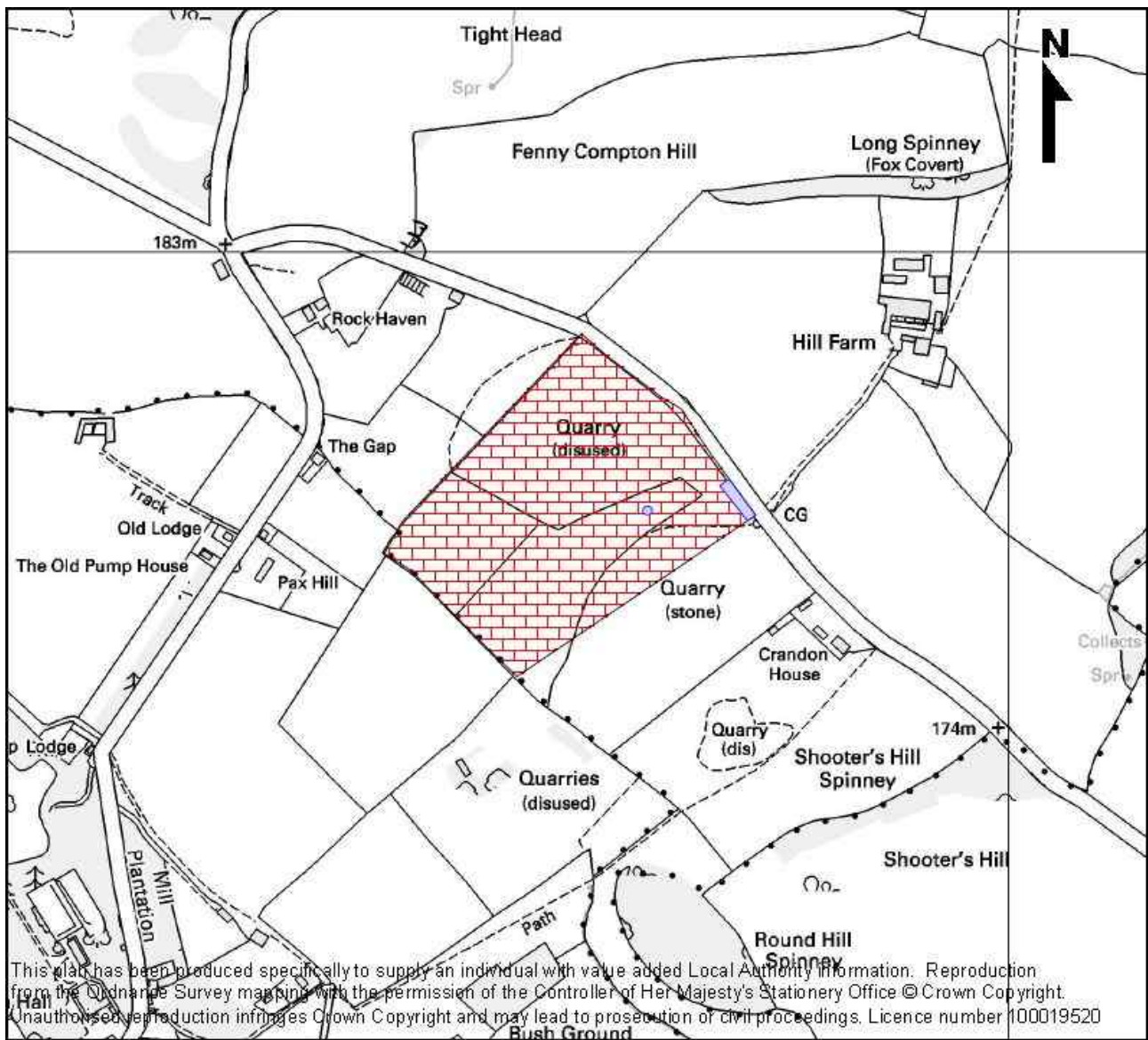
**WARWICKSHIRE GEOLOGICAL CONSERVATION GROUP
LOCAL GEOLOGICAL SITE (LoGS)**

Site	50	Avonhill Quarry
Parish		Fenny Compton
District		Stratford-on-Avon
County		Warwickshire
National Grid Reference		SP 4165 5065 (centroid) SP 4173 5076 (Marlstone Rock Fm. & Whitby Mudstone Fm.) SP 41641 50743 (Dyrham Fm.)
Ordnance Survey Sheets 1:50000 1:10000		151 SP 45 SW

Location
Entrance is 650m E. of crossroads halfway between Fenny Compton and Avon Dassett. Quarry lies to S. of the road.

Summary of Interest
<p>Although stone extraction has now ceased the quarry is used for various commercial activities. Exposure is variable, ranging from recently worked fresh faces in the north eastern corner of the quarry immediately adjacent to the gate, to a largely obscured terrain of vegetation, ponds and spoil tips to the south. However, the Dyrham Formation has been exposed in sections in the centre of the quarry (SP 41641 50743) adjacent to the office yielding fossils including <i>Gryphaea gigantea</i>. Strata therefore are of Lower Jurassic age and range from the Dyrham Formation (variably fossiliferous silty clays, bioturbated sandstones and pebble beds), through the Marlstone Rock Formation (fossiliferous ironstone), into the base of the Whitby Mudstone Formation (alternating shaley clays and fine grained ammonite-bearing nodular limestones) (both exposed in section at SP 4173 5076). The sections are complicated by minor faulting as evidenced in the vicinity of the quarry office.</p> <p>An unidentified interval of the Dyrham Formation is seen at the Meon Hill Barn site. The Whitby Mudstone Formation outcrops on Burton Dassett Hills. Strengths therefore lie in the fossiliferous nature of the Dyrham Formation and exposure of the basal Whitby Mudstone Formation.</p>





The areas in blue are considered to be specific 'areas of interest'.

Link to Resurveyed LoGS document
<http://lgs.wgcg.co.uk/LoGS50-Resurvey.pdf>