Warwickshire Geological Conservation Group

Warwickshire Local Geological Site		
Site No: 94	Kings Hill Nurseries	
Geological Formations	Kenilworth Sandstone Formation (Permian)	
Criteria Form		p 2
Description		p 3
Photographs		p 4
Location Map		p 5

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: Kings Hill Nurseries	**Also known as:**		
District: Warwick	**County:** Warwickshire		
Grid reference: SP 3175 7423	**LoGS Number:** 94	**ESCC Class:**	

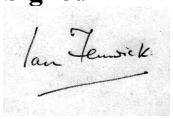
Brief Description: A long 3m high section displaying rhythmically deposited sandstones and mudstones in the Permian Kenilworth Sandstone Formation. The Permian rocks are capped with a slope deposit of Pleistocene or Holocene age which features well defined, thin, stratified layers of clays and silty clays.

This site qualifies as a Local Geological Site for the following criteria:

A Good Example of a clear, extensive and accessible outcrop of the Kenilworth Sandstone 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: *Kenilworth Castle Quarry (26)*			✓
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



I M Fenwick, Chairman,
Warwickshire Geological Conservation Group

Date first selected 16th Sept. 2008	
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	94	Kings Hill Nurseries
Parish		Stoneleigh
District		Warwick
County		Warwickshire
National Grid Reference		SP 3175 7423
Ordnance Survey Sheets 1:50000 **1:10000**		140 SP 37SW

Location

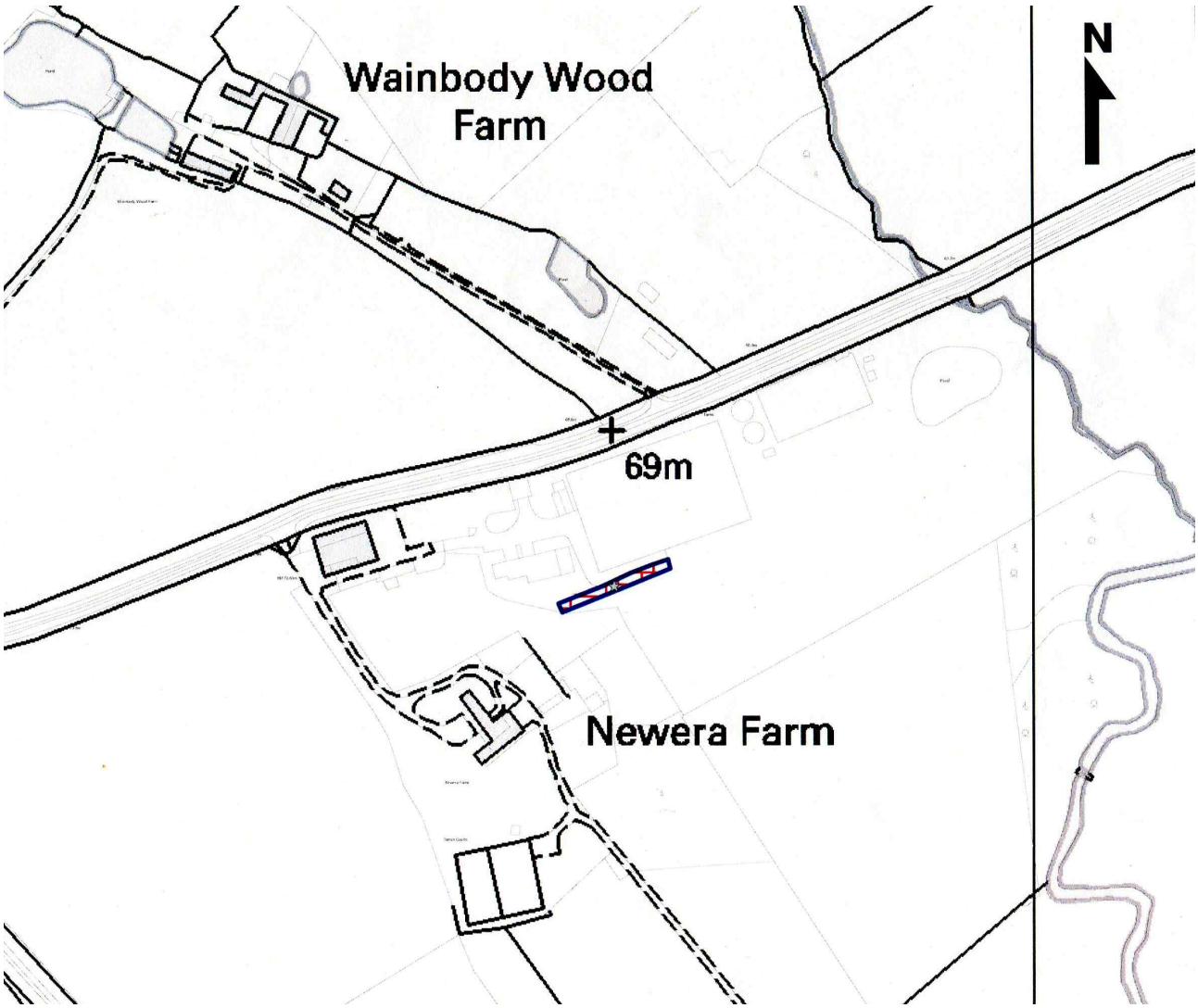
The section forms part of the premises of the Kings Hill Nurseries and is formed where the land has been levelled to allow for the siting of large glasshouses. It is readily accessible, but parties should make prior arrangements with the nursery manager.

Summary of Interest

The outcrop is assigned to the Kenilworth Sandstone Formation of the Permian Warwickshire Group. The section extends for approximately 80m at c.2 - 3m height. A sequence of coarsely- to very finely-bedded red bed units is revealed dipping *apparently* at c3° to WSW. The lowest unit exposed is a massively bedded coarse sandstone, some 100cm in thickness, overlain by a thin (30cm) finely laminated sandy clay unit (replaced by a brick reinforcement for much of the section). In turn, this is overlain by a further massive sandstone (40cm) and, finally, by some 150cm of flaggy to finely laminated sandstone. The whole would seem to represent transport in conditions of rapidly changing energy with deposition in shallow water.

The Permian sequence has been mantled in a Pleistocene or Holocene slope deposit of well defined, thin, stratified layers of clays and silty clays; these are particularly evident in the southern part of the exposure.


GARDEN
SHOP
5
MPH



Link to Resurveyed LoGS document
http://lgs.wgcg.co.uk/LoGS94-Resurvey.pdf