

NORTH DONEGAL - COUNTY GEOLOGICAL SITE REPORT

NAME OF SITE	Lackagh Bridge
Other names used for site	
IGH THEME	IGH5 Precambrian, IGH11 Igneous intrusions
TOWNLAND(S)	Drumlackagh
NEAREST TOWN/VILLAGE	Creeslough
SIX INCH MAP NUMBER	26
ITM CO-ORDINATES	609505E 930901N
1:50,000 O.S. SHEET NUMBER 2	GS1 BEDROCK 1:100,000 SHEET NO. 1
GIS Code ND041	

Outline Site Description

A section of rock pavements exposed in the intertidal zone and just adjacent in the banks, where the Lackagh River becomes tidal upstream of Lackagh Bridge. A small section of adjacent old roadside quarry on the northern side of the bridge is included.

Geological System/Age and Primary Rock Type

The rocks in this site are Precambrian, Dalradian quartzite and schist lithologies, and the margin of the Main Donegal Granite.

Main Geological or Geomorphological Interest

The site demonstrates very well some of the intense effects of shearing and intrusion of the Main Donegal Granite into the Dalradian, as well as internal features of the structural development of the granite. In the roadside quarry north of the Bridge, Ards Quartzite is intruded by sheets of granite. To the south of the Bridge is a complex zone, over a short distance of around 100m. The edge of the Main Donegal Granite is encountered, primarily in multiple sheets but with pelitic lithologies interleaved. There are numerous pegmatites cross-cutting the main trend of structures. There are also rafts of the Thorr Granite tonalite, Thorr Granite quartz diorite and highly elongated mafic xenoliths.

Site Importance – County Geological Site; may be recommended for Geological NHA

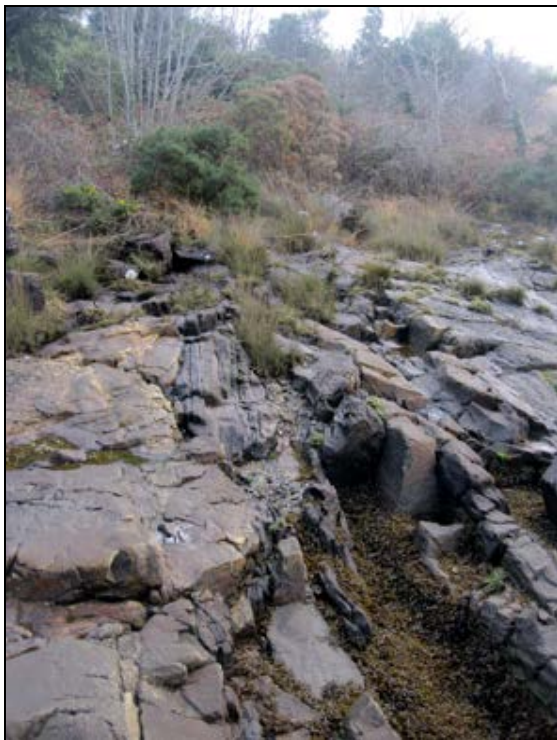
As one of many important sites for understanding the structural development of the Main Donegal Granite shear zone this is definitely a County Geological Site, but may be of national importance, when viewed in the context of either or both themes.

Management/promotion issues

The site is accessible from a rough footpath down from the bridge, but as it is mainly intertidal exposures, great care must be taken on slippery rocks and low tide is really needed to see the exposures properly.



Lackagh Bridge and the small roadside quarry on the left, displaying near vertical Ards Quartzite beds with some granite sheets.



Pelitic units and granite sheets.



View of main exposures from the bridge.



Stretched mafic inclusion.



Complex sheeting of different lithologies.

