

Sample: Core 4 8374' : TS C8633

Location:  
Durroon-1

Rock Name:  
Lithic sandstone

Hand Specimen:  
A grey-white mottled sediment apparently very similar to the rock at 5559' except that carbonaceous material appears to be absent.

Thin Section/  
An optical estimate of the constituents gives the following:

	<u>%</u>
Lithic fragments	75-80
Quartz/quartzite	10-15
Feldspar	2- 3
Chlorite	10
Biotite	Trace
Zircon	Trace
Carbonate	Trace

As indicated in the hand specimen description this sample is very similar to that from 5559' except that there is little opaque material. The bulk of the rock consists of lithic fragments and detrital grains and the rock is 'cemented' by a combination of the deposition of chlorite and by breakdown or distortion of lithic fragments.

The fragments or detrital grains are wellsorted and most are in the range 0.15-0.5 mm, if anything rather smaller than at 5559'. Grains are angular to sub-rounded. Bedding is indicated by a parallelism of the more elongate fragments but is not pronounced.

The rock types represented appear very similar to those at 5559'. There are substantial numbers of chert siltstone, quartz mica schist, andesite-trachyte-basalt and shale fragments and a smaller number of quartzite grains. A number of grains are so turbid that their origins are in doubt; they are probably sedimentary with the turbidity being caused by secondary titanium minerals.