

to that of the best Welsh steam coals. It may be remarked that the best American and Welsh coals would be classified as free burning, semi-anthracite, while the Springhill coals are bituminous and coking.

I also give here an analysis of the Patrick seam as worked on the Patrick Lease, now the property of the Canada Coals and Railway Company, on the west bank of the Mucan River. The sample is from the lower part of the seam :—

Moisture.....	1.00
Volatile Combustible Matter	55.61
Fixed Carbon.....	35.60
Ash	7.49
Sulphur50

As reddish and pulverulent.

The following analyses of pit waters may be given here :—

Vale Colliery :—

Water contained in 1000 parts.

Sulphate of Lime.....	514
“ Magnesia	100
Silicious matter.....	190
Chloride of Sodium	1452
Carbonate of Sodium	7509
Iron and Alumina.....	Trace.
Organic matter	Trace.
No free acid.	

Springhill, from feeder 1300 feet level, water clear, free from smell, slightly acid :—

Sulphuric Acid, free	Trace.
Sulphate of Lime	Large.
“ Magnesia	Small.
Chloride of Sodium.....	Considerable.
Carbonic Acid.....	Small.
Carbonate of Lime.....	Small.
Iron Oxides	Small.

Water exerted slightly corrosive action on iron exposed to it for twenty-four hours.

A number of analyses of Nova Scotia mineral and pit waters are given in a paper by the writer, read before the Newcastle Mining Institute some years ago.