

Nova Scotia Coal Fields.

Sydney Area.

Description.	Outcrop at Port Morien.		Birch Grove pit, 1½ miles south of Dominion Colliery No. 21.		Dominion Coal Co., Ltd., Glace Bay.					
					382			536		
Sample No.	1286		1280		R	AD	D	R	AD	D
Moisture condition (see note, p. 2)	R	D	R	D	4.6			9.0		
Loss on air-drying.....	.....		.....		.....			.....		
Results obtained by.....	Anal.	Calc.	Anal.	Calc.	Calc.	Anal.	Calc.	Calc.	Anal.	Calc.
Proximate analysis:—										
Moisture.....	2.4	.....	3.1	.....	7.4	2.9	.....	11.2	2.4	.....
Ash.....	15.4	15.8	16.2	16.7	6.0	6.3	6.4	8.2	9.0	9.2
Volatile matter.....	32.3	33.1	28.2	29.1	.....	.....	.....	30.8	33.8	34.6
Fixed carbon.....	49.9	51.1	52.5	54.2	.....	.....	.....	49.8	54.8	56.2
Ultimate analysis:—										
Carbon.....	.....	.....	.....	.....	.....	.....	.....	67.0	73.6	75.4
Hydrogen.....	.....	.....	.....	.....	.....	.....	.....	5.6	5.1	4.9
Ash.....	.....	.....	.....	.....	.....	.....	.....	8.2	9.0	9.2
Sulphur.....	.....	.....	.....	.....	1.8	1.9	2.0	2.3	2.5	2.6
Nitrogen.....	.....	.....	.....	.....	.....	.....	.....	1.0	1.1	1.2
Oxygen.....	.....	.....	.....	.....	.....	.....	.....	15.9	8.7	6.7
Calorific value:—										
Calories per gram, gross.....	.....	.....	.....	.....	7280	7630	7850	6660	7320	7490
B. Th. U. per lb., gross.....	.....	.....	.....	.....	13100	13730	14130	11980	13170	13490
Fuel ratio.....	1.55	.....	1.85	.....	.....	.....	.....	1.60	.....	.....
Carbon-Hydrogen ratio.....	.....	.....	.....	.....	.....	.....	.....	12.0	14.6	15.4
Coking properties.....	good, swollen coke	.....	agglomerates	.....	.....	.....	.....	forms small lump of good firm coke	.....	.....
Location in mine.....	McRury seam.....		.....		.....					
Kind of sample.....	Prospect.....		Prospect.....		Commercial.....					
Quality of coal.....	.....		.....		Washed screenings.....					
Taken by.....	A. O. Hayes, Geological Survey.		A. O. Hayes....		Submitted by purchasers.....					
Date of sampling.....	Summer of 1917.		1917.....		August 1914.....			February 1915.....		