

VAUDREUIL.

A mine of bog ore is found at Côté St. Charles attaining a thickness of eight feet; the ore contains 50 per cent. of iron. On the McGillis property, St. Elizabeth, the ore analysis—metallic iron, 28·67; peroxide of iron, 40·96; oxide of manganese, 26·34; lime, 1·48; phosphoric acid, 0·60; insoluble matter and soluble silica, 12·08; water and organic matter, 17·97.

ST. VALIÈRE.

This deposit of ore containing about 50 per cent. of iron, extends over an area of from 10 to 15 miles; situated near the branches of Rivière du Sud.

NEW BRUNSWICK.

CARLETON COUNTY IRON MINES.

Analysis of Iron Ores.

These ores are three miles from the furnaces which are situate at Woodstock. The following is an analysis by John Mitchell, Esq., of London, England:—

	Veins Nos.					
	1	2	3	4	5	6
Peroxide of iron.....	49·357	47·858	39·285	67·857	42·857	50·000
Protoxide of iron.....	0·412	2·140	1·140	1·070	.....	2·400
Alumina	6·200	3·924	3·118	2·004	6·412	6·114
Oxide of manganese.....	4·784	6·110	5·872	0·976	2·140	3·742
Peroxide of manganese.....	.....	.....	.....	.....	8·740	.....
Lime.....	2·014	1·004	1·120	0·887	1·074	1·146
Magnesia	3·911	5·018	4·602	2·940	5·107	4·072
Silica	22·021	16·842	25·964	15·630	22·420	19·842
Carbonic acid and water.....	7·621	13·890	16·764	5·609	8·974	10·630
Potash, soda, sulphuric acid and phosphoric acid make the rest.	.....	.....	.....	.....	.....	.....
Percentage of metallic iron.....	34·867	35·147	28·377	48·323	30·000	36·848

THICKNESS OF THE BEDS.

The brown hematite iron ore occurs in veins between red and green clay slates lying on edge with more or less inclination. These veins are from two to eight and ten feet, and in No. 4, 20 feet in thickness, and the quantity is inexhaustible. The mines are under a 99 years' lease (1850) from Government. The quantity mined amounts to 100,000 tons at an average cost of \$1.20, delivered at the roasting kilns (of which there are three), three tons of the raw producing one ton of pig iron. The woods used for charcoal are maple, birch and beech. The facility for obtaining fuel has been greatly increased by the building of the New Brunswick Railway.