

of these "dressed graphites," as already exemplified by analyses twelve and thirteen. The remarks made in the concluding paragraph under the former of these analyses will—apart from the precise figures—apply with equal force, not only here, and where the figures to be substituted for those there occurring are given, but to all dressed graphites obtained according to the present process from either of the two beds of "disseminated graphite" from which the foregoing samples were prepared.

CANADIAN GRAPHITE—VEIN GRAPHITE.

15. *Vein Graphite, var. Foliated.*

Analyses of vein
graphite from
Buckingham.

From a vein running through lots twenty-one and twenty-two of the seventh range of Buckingham.

The structure of this graphite was massive, dense, made up of broad and thick laminae. Colour dark steel-grey. Lustre metallic. Specific gravity 2.2689, (containing 0.147 per cent. ash.) Heated in the closed tube it gave off a little water, but not more than sufficient to form a film.

The specimen contained, here and there, thin seams of foreign mineral matter; apart from this it appeared to be very free from such admixture. The mean percentage of ash, in an average sample of a specimen weighing nearly one kilogramme (rejecting such portions as contained the seams of foreign mineral matter) was found to be 0.195 per cent.

The material employed for analysis was carefully selected; its composition was found to be as follows:—

Carbon	99.675
Ash.....	0.147
Volatile matter.....	0.178
	100.000

Colour of the ash, light reddish-brown.

COMPOSITION OF ASH PER CENT.	
Silica.....	56.080
Alumina.....	11.120
Sesquioxide of iron.....	13.270
Sesquioxide of manganese.....	0.352
Lime.....	6.800
Magnesia.....	6.739
Potash.....	2.197
Soda.....	2.827
Protoxide of copper.....	0.660
Protoxide of nickel	0.483
Protos sesquioxide of cobalt.....	0.326
	100.854