

King's College, Windsor.

JAN. 23, 1858.

CHEMICAL ANALYSIS OF THE SPA-SPRING WATER, WINDSOR, N. S.

DURING the late Christmas vacation, I took in hand the examination of a mineral water well known to the inhabitants of Windsor and its neighbourhood, flowing from a spring on the property of C. B. Bowman, Esq., long entitled, on this account, "Spa-Spring." The water has for many years enjoyed the reputation of being chalybeate, and its attributed medicinal properties have been called into requisition by various votaries of health, who from time to time have sought its aid in regulated draughts. It is also well known as a very favorite drink of horses and cattle. Under these circumstances, I thought an investigation into the nature of the water might be interesting, as throwing light on the cause of its qualities, which must depend on its chemical composition, and also as a contribution to the Natural History of the Province.

The chalybeate character of the water was inferred from its possessing a strong inky taste, and also from a certain red deposit found in the conduit pipes through which it ran, both of which were justly considered as due to the presence of iron. Experiment, however, shews that there is really very little iron in the water as it issues from its outlet, as is seen at once in the following results of an analysis made on the water carefully collected in a small reservoir filled immediately from the spring rising beneath.

The water was perfectly colourless and clear—very brilliant—had very little decided taste, and that not inky; its temperature was 49° Fah., that of the air being 31°.

An imperial gallon, weighing 70,000 grains or 10 lbs. avoirdupois, afforded 137.91 grains of solid matter, composed of these ingredients :