

by the co-operation of the owners of the Back River Power development, who constructed a small section of their dam so as to provide for hydraulic experiemnts involving the use of much larger quantities of water than are available in the laboratory. ~~Zhixzpxzixzixd.~~

The highways laboratory, which occupies a room in the basement of the building, contains the necessary equipment for conducting standard tests of highway materials as well as some apparatus which was built for use in special investigations. The laboratory has been freely used by municipalities and railways. Thus, for example, over one hundred samples of filter sands were investigated during the construction of the latest extension of the filtration plant of the city of Montreal, and many samples of rock ballast have been tested for railway companies.

New equipment and machinery has in the past few years been installed in the strength of materials laboratory and this has benefitted both the university and a number of industrial plants in the city that have been able to make use of it..

The equipment is also available for commercial testing work, a considerable amount of which passes through our laboratories. This commercial testing varies from simple routine investigations, such as tensile tests of specimens of wire rope, to most elaborate investigations, such as those on pin friction and the strength of eyebars in connection with the design of the Quebec Bridge. Members of the laboratory staff usually supervise such work, but occasionally the university facilities are placed at the disposal of the companies interested in the tests, and all this work has been found to render very useful service to the profession.