

## REPORT NO. 1 ON WATERWORKS IMPROVEMENTS.

To the Chairman and Members of the Board of Control:

Gentlemen :

In accordance with instructions received from your Board, we herewith submit our report upon the present condition and the future requirements of the Hamilton Water Works System.

During the time that has elapsed since receiving your instructions, we have had soundings taken in Lake Ontario opposite the Basin, taken measurements along the conduits and around Pumping Station, determined the elevations or Reservoirs in respect to Pumping Station and City datum, prepared several plans and profiles, examined reports and data on file in Engineer's Office, etc.

WILLIS CHIPMAN.  
ANDREW F. MACALLUM.

Toronto, August 19th, 1911.

**Topography.** The greater part of the 6,000 acres upon which the City is built, lies between the rock escarpment, known as the "Mountain," and the south shore of Burlington Bay, this area being a comparatively level tract, with a rise of about 120 feet from the Bay to the base of the Mountain. A cross ridge, extending south-easterly from Dundurn Park at the south-west part of the City, to the foot of the Incline Railway on James street, divides the City into two parts, the smaller draining westerly to Coote's Paradise Bay, and the other draining northerly to Burlington Bay, the shores of which are indented with a number of inlets, some of which extend nearly half way to the Mountain.

The southerly boundary of the City follows the brow of the Mountain, excepting for a distance of about one mile, for which distance the boundary jogs southward, enclosing about 100 acres. This small area has an elevation of about 400 feet above the lake, and has a population of about 1,500 people.

There can be no doubt that within a very few years the entire area to the road allowance between the fourth and fifth concessions of the Township of Barton will be annexed to the City.

**Population.** The following table gives the population of the City, with the increase or decrease from year to year :