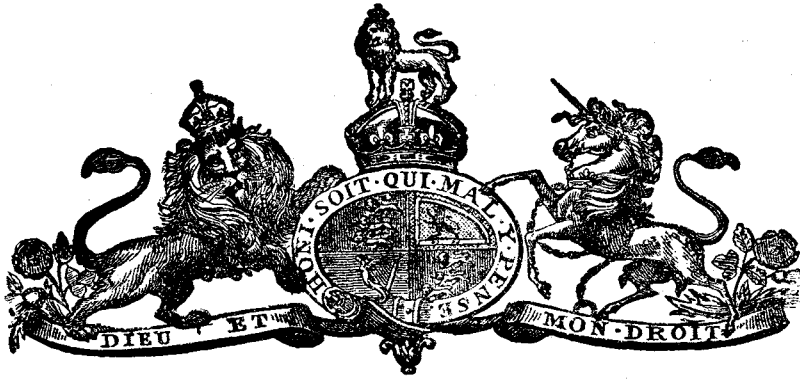


T A S M A N I A.



1905.

ANNO QUINTO

EDWARDI VII. REGIS,

No. 45.

AN ACT to further amend "The *Hobart* A.D. 1905.
Corporation Act, 1893." [20 November, 1905.] —

WHEREAS it is expedient to further amend "The *Hobart* PREAMBLE.
Corporation Act, 1893," in the manner hereinafter appearing:

Be it therefore enacted by His Excellency the Governor of *Tasmania*,
by and with the advice and consent of the Legislative Council and
House of Assembly, in Parliament assembled, as follows:—

1 This Act may be cited for all purposes as "The *Hobart* Short title.
Corporation Act, 1905."

2 In the interpretation and construction of the provisions of this Interpretation.
Act, the following words and terms shall have the respective meanings
hereby assigned to them, unless inconsistent with or repugnant to the
context; that is to say:—

"The said Act" shall mean "The *Hobart* Corporation Act, 57 Vict. No. 11.
1893:"

Hobart Corporation.

A.D. 1905.

3 Ed. VII. No. 32.

Further powers
regarding the
Hobart Rivulet.

“The said amending Act” shall mean “The *Hobart Corporation Act, 1903*” :

“The Rivulet” shall have the meaning assigned to such words by the said amending Act.

3—(1.) Subject to all private rights and interests therein (if any) which shall have been acquired prior to the passing of the said amending Act, the Council is hereby authorised and empowered—

i. To let or demise to any person the right to build over and cover in the Rivulet, or such part or parts thereof as may be deemed desirable by the Council :

ii. To let or demise to any person the right to erect and maintain in the bed of the Rivulet or on any lands vested in or acquired by the Corporation, or partly in the bed and partly on such lands, such walls, piers, columns, pillars, buttresses, abutments, and other erections as may be necessary for the support of the superstructure, buildings, or other works hereinafter referred to or contemplated by this Section, and as may be approved by the Council :

iii. To let or demise to any person the right to erect and maintain over and across the Rivulet, or any part thereof, such superstructure, buildings, and other works as may be deemed desirable by the Council.

(2.) Any lease granted by the Council under this Act shall be for any term not exceeding Fifty years and for such rent and subject to such covenants, conditions, and restrictions, and especially as to the description, class, foundation, and elevation of the walls, piers, columns, pillars, buttresses, abutments, superstructure, erections, buildings, and other works to be erected thereon by virtue of such lease as the Council may deem advisable and for the benefit of the citizens, and the rights aforesaid may be let or demised by public auction, or by public tender, or after having been offered by either of such means without having been accepted, then by private contract.

Corporation may
purchase lands.

4—(1.) The Corporation may purchase and take compulsorily under the provisions of the said Act such lands, tenements, or hereditaments fronting or abutting upon the Rivulet as in the opinion of the Council may be conveniently or advantageously used, let, or demised with any right to be exercised, let, or demised under the said amending Act or this Act.

Lands to form
part of the
Rivulet.

(2.) Any lands, tenements, or hereditaments purchased or taken under this Section, and any erections thereon shall be deemed thenceforth part of the Rivulet for the purposes of this Act and of the said amending Act, and may be dealt with under the provisions of such Acts.

Rivulet vested in
the Corporation.

5 The Rivulet shall be deemed to be and shall be hereby vested in the Corporation for the purposes of this Act.

Hobart Corporation.

6 The powers and authorities conferred upon the Council by this Act and the provisions herein contained shall be in addition to any powers and authorities conferred by the said Act and the said Amending Act and to the provisions therein contained. A.D. 1905.
Powers to be
additional.

7 This Act and the said Act and every Act amending the said Act shall, save as altered or amended by this Act, be read and construed together as one and the same Act, and the said Act and every Act amending the same and this Act may be referred to and may be cited for all purposes as "The *Hobart Corporation Acts*, 1893 to 1905." Acts to be read
together.

The first part of the paper is devoted to a study of the
 properties of the function $f(x)$ defined by the
 equation

$$f(x) = \int_0^x f(t) dt + x^2$$

It is shown that $f(x)$ is a continuous function
 which is differentiable at every point. The
 derivative of $f(x)$ is given by the equation

$$f'(x) = f(x) + 2x$$

It is also shown that $f(x)$ is a solution of the
 differential equation

$$f'(x) - f(x) = 2x$$

The general solution of this equation is

$$f(x) = e^x \int_0^x 2t e^{-t} dt + C e^x$$

where C is an arbitrary constant. It is shown
 that $f(x)$ is the unique solution of the
 differential equation which satisfies the
 condition $f(0) = 0$.