

FINANCIAL

Chapter 277 SEWAGE AND WATER RATES

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**Article 1
INTERPRETATION**

277.1.1 Biochemical oxygen demand - defined

“biochemical oxygen demand” means carbonaceous oxygen demand (biochemical) as determined by Standard Methods as that term is defined in the City’s Sewer Use By-law being By-law 45-2014 when an inhibiting chemical has been added to prevent ammonia oxidation. By-law 46-2014, 22 April, 2014.

277.1.2 Chemical oxygen demand - defined

“chemical oxygen demand” means the quantity of oxygen utilized in the chemical oxidation of matter. By-law 74-82, 5 April, 1982.

277.1.3 Composite sample - defined

“composite sample” means two or more grab samples of a discharge to the sewage works taken at intervals during the sampling period that have been combined automatically or manually. By-law 46-2014, 22 April, 2014.

277.1.4 Corporation - defined

“Corporation” means The Corporation of the City of Brantford.

277.1.5 Engineer - defined

“Engineer” means the Engineer of The Corporation of the City of Brantford or his or her authorized deputy. By-law 74-82, 5 April, 1982.

277.1.6 Person - defined

“person” includes an individual, association, organization, partnership corporation, or an agent or employee thereof.

277.1.7 Sanitary sewer - defined

“sanitary sewer” means any part of the sewage works that is intended to collect and convey sewage to a sewage treatment facility.

277.1.8 Sewage or wastewater - defined

“sewage or wastewater” includes any liquid containing animal, vegetable or mineral matter in solution or in suspension, including floating materials, but does not include uncontaminated water.

277.1.9 Sewage works - defined

“sewage works” means any works for the collection, transmission, treatment or disposal of sewage, or any part thereof, but does not include plumbing to which the *Building Code Act, 1992* applies.

277.1.10 Storm sewer - defined

“storm sewer” means any part of the City’s storm system that is intended to collect and convey uncontaminated water, stormwater, surface runoff or drainage from land or from a watercourse or any combination thereof. By-law 46-2014, 22 April, 2014.

277.1.11 Storm water - defined

“storm water” means water from rainfall or other natural precipitation or from the melting of snow or ice.

277.1.12 Suspended solids - defined

“suspended solids” means solid matter in or on a liquid that is removable by filtering.

Article 2 RATE - IMPOSED

277.2.1 Sufficient - to defray cost

Pursuant to section 221 of the *Municipal Act*, R.S.O. 1990, c. M.45, a sewage service rate is hereby imposed upon the owners and/or occupants of the land situate in the City of Brantford from which sewage is received, treated, or disposed of, sufficient in amount to defray the total cost, or a portion thereof, of the operation, repair, maintenance, and extension of the sewage works as defined in subsection 221 (1) of the *Municipal Act*, in and of the City of Brantford. By-law 74-82, 5 April, 1982.

277.2.2 Sewage service rate - per cubic metre - actual use

The sewage service rate is \$0.60 per cubic metre (per 35.31 cubic feet) of water purchased from the Corporation. The sewage service rate for a single family residential dwelling unit used exclusively as a residence, serviced by a water meter solely for that unit shall be based on the actual water consumption to a maximum of 30 cubic metres (1059 cubic feet) per month to be applied to utility bills issued between June 1 and September 30 of each year. By-law 6-2001, 15 January, 2001.

277.2.2.1 Repealed: By-law 46-2014, 22 April, 2014**277.2.3 Exemption permit**

Where any person uses water purchased from the Corporation in such a way that all of the water passing through a single water meter does not ultimately enter the City's sanitary sewers, the Engineer may, at his/her discretion, issue a sewage service rate exemption permit to that person which shall exempt that person from the payment of the sewage service rate set forth in Section 277.2.2. The sewage service rate exemption permit shall be renewable on an annual basis. By-law 163-92, 2 November, 1992; By-law 39-97, 24 March, 1997.

277.2.4 Refunded - no discharge - sanitary sewer - agreement

If a person's effluent, in whole or part, is approved by the Engineer for discharge to a storm sewer or natural watercourse and is discharged to a storm sewer or natural watercourse, or if a person utilizes water purchased from the Corporation in such a way that the purchased water is not discharged to a sanitary sewer, the person may apply to the Engineer for permission to enter into an agreement with the Corporation, whereby the person will be refunded, in whole or in part, the sewage service rate described in Section 277.2.2 calculated from measurements of the actual effluent discharged to the sanitary sewer system. The person shall be responsible for installing and maintaining the required flow measuring devices. By-law 74-82, 5 April, 1982; By-law 39-97, 24 March, 1997.

277.2.5 Water rate - per cubic metre - actual use

In addition to the sewage service rate charged pursuant to Section 277.2.2, the rate to be charged for water is \$0.47 for each cubic metre (35.31 cubic feet) of water purchased from the Corporation on or after January 1, 2001. By-law 6-2001, 15 January, 2001.

277.2.6 Repealed: By-law 39-97, 24 March, 1997**Article 3****SPECIAL CIRCUMSTANCES****277.3.1 Well water - private supplies - agreement**

All owners and/or occupants of land described in Section 277.2.1 who use well water or other private supplies in whole or in part, shall enter into an agreement with the Corporation to pay a sewage service rate which shall be calculated in conformance with the principles outlined in Sections 277.2.2 through 277.2.4 inclusive. By-law 74-82, 5 April, 1982.

277.3.2 Repealed: By-law 46-2014, 22 April, 2014

**Article 4
WASTE FLOW - DETERMINATION**

277.4.1 Meters - approved - formulae - variables

Determination of the waste flow per three month billing period shall be calculated by:

- (a) actual quantities of effluent discharged to sanitary sewers, as determined by recording meters approved by the Engineer, installed and maintained by the owner and/or occupant at his/her expense; or
- (b) by the following formula:

$$w = j + k$$

Where:

w = waste flow in litres per three months to be used in calculating the surcharge;

j = water in litres per three months purchased from the Corporation;

k = water in litres per three months obtained from other sources such as private well systems, lakes, streams, and canals; as determined by recording meters approved by the Engineer, installed and maintained by the owner and/or occupant, at his/her expense. By-law 74-82, 5 April, 1982; By-law 39-97, 24 March, 1997; By-law 46-2014, 22 April, 2014.

**Article 5
BIOCHEMICAL - CHEMICAL - OXYGEN
DEMAND - SUSPENDED SOLIDS**

277.5.1 By-law 46-2014, 22 April, 2014

277.5.2 By-law 46-2014, 22 April, 2014

277.5.3 By-law 46-2014, 22 April, 2014

277.5.4 Excess - determined - formulae - variables

Excess quantities of biochemical oxygen demand, chemical oxygen demand, and suspended solids shall be determined by the following formulae:

$$V_b = (ib \times w) / 10^6 \quad V_s = (is \times w) / 10^6 \quad V_d = (id \times w) / 10^6$$

Where:

V_b = excess kilograms of biochemical oxygen demand discharged to a sanitary sewer per three months by the person;

V_s = excess kilograms of suspended solids discharged to a sanitary sewer per three months by the person;

V_d = excess kilograms of chemical oxygen demand discharged to a sanitary sewer per three months by the person;

ib = biochemical oxygen demand in milligrams per litre as determined from composite samples less 300 milligrams per litre;

is = suspended solids in milligrams per litre as determined from composite samples less 350 milligrams per litre;

id = chemical oxygen demand in milligrams per litre as determined from composite samples less 1000 milligrams per litre.

w = waste flow in litres per three months discharged to a sanitary sewer by the person as determined in Section 277.4.1. By-law 74-82, 5 April, 1982; By-law 46-2014, 22 April, 2014.

277.5.5 Treatment - cost - determined - formulae - variables

The determination of the cost per kilogram for the treatment of biochemical oxygen demand, chemical oxygen demand, and suspended solids shall be calculated on the basis of the following formulae:

$$x = \frac{c}{1.6b} \quad y = \frac{c}{2.5s} \quad z = \frac{c}{1.6}$$

Where:

x = cost per kilogram in dollars to treat biochemical oxygen demand;

y = cost per kilogram to treat suspended solids;

z = cost per kilogram in dollars to treat chemical oxygen demand;

c = latest known annual operating cost of the Brantford Water Pollution Control Plant. Operating costs include all charges incurred for the operation, repair and maintenance of sewage

works and may include a charge for depreciation, deferred maintenance or a reserve fund for any such purpose;

b = kilograms of biochemical oxygen demand removed by the Brantford Water Pollution Control Plant in the year corresponding with the latest known annual operating cost;

s = kilograms of suspended solids removed by the Brantford Water Pollution Control Plant in the year corresponding with the latest known annual operating cost;

d = kilograms of chemical oxygen demand removed by the Brantford Water Pollution Control Plant in the year corresponding with the latest known annual operating cost. By-law 74-82, 5 April, 1982.

277.5.6 Formulae - expiry

Sections 277.5.4 and 277.5.5 shall expire on December 31, 2014, unless extended by the Council of The Corporation of the City of Brantford. By-law 46-2014, 22 April, 2014.

Article 6

SURCHARGE - APPLIED

277.6.1 Greatest - surcharge - determined - applied

Either the biochemical oxygen demand or chemical oxygen demand, but not both, will be used in any surcharge calculation. Whichever concentration, biochemical oxygen demand or chemical oxygen demand, yields the greatest surcharge will be used in the surcharge billing.

277.6.2 Engineer - to calculate - Treasurer - to collect

The Engineer shall be responsible for calculating the surcharge, and the Treasurer shall be responsible for collecting the surcharge.

277.6.3 Calculation - formulae

The surcharge will be calculated using the following formulae:

surcharge in dollars per three months = $x (Vb) + y (Vs)$

or

surcharge in dollars per three months = $z (Vd) + y (Vs)$

By-law 74-82, 5 April, 1982; By-law 46-2014, 22 April, 2014.

277.6.4 Repealed: By-law 46-2014, 22 April, 2014

277.6.5 Repealed: By-law 46-2014, 22 April, 2014

277.6.6 SEWAGE AND WATER RATES 277.8.1

277.6.6 Repealed: By-law 46-2014, 22 April, 2014

277.6.7 Formulae - expiry

Sections 277.6.1 and 277.6.3 shall expire on December 31, 2014, unless extended by the Council of The Corporation of the City of Brantford. By-law 46-2014, 22 April, 2014.

**Article 7
ENFORCEMENT**

277.7.1 Fine - for contravention

Every person who contravenes any of the provisions of this Chapter is guilty of an offence and shall, upon conviction thereof, forfeit and pay a penalty of not more than \$5,000, exclusive of costs and every such fine is recoverable under the *Provincial Offences Act*. By-law 55-92, 23 March, 1992.

**Article 8
REPEAL**

277.8.1 By-law - previous

By-law 68-77 of the Corporation of The City of Brantford is repealed. By-law 74-82, 5 April, 1982.