



GVS&DD SEWER USE BYLAW CONSOLIDATED

THIS IS A CONSOLIDATION, FOR REFERENCE PURPOSES, OF:

- “Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw No. 299, 2007”
(Adopted May 25, 2007)
- “Greater Vancouver Sewerage and Drainage District Amending Bylaw No. 244, 2008”
(Adopted May 23, 2008)
- “Greater Vancouver Sewerage and Drainage District Amending Bylaw No. 252, 2009”
(Adopted November 27, 2009)
- “Greater Vancouver Sewerage and Drainage District Sewer Use Amending Bylaw No. 256, 2010”
(Adopted May 21, 2010)

As of May 25, 2010

COPIES OF THE ORIGINAL BYLAWS MAY BE INSPECTED AT THE CORPORATE
SECRETARY’S DEPARTMENT - METROVANCOUVER

GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT

SEWER USE BYLAW NO. 299, 2007

WHEREAS pursuant to the *Environmental Management Act* of British Columbia and the *Greater Vancouver Sewerage and Drainage District Act*, the Greater Vancouver Sewerage and Drainage District (the "District") is authorized to make bylaws respecting the direct or indirect discharge of waste into any sewers and drains connected to a Sewage Facility operated by the District.

*Added by
Bylaw No.
244, 2008*

AND WHEREAS pursuant to section 7C(2) of the *Greater Vancouver Sewerage and Drainage District Act* the District is authorized to set fees payable by persons who discharge liquid waste into a Sewage Facility or whose liquid waste is treated by a Sewage Facility;

NOW THEREFORE the Greater Vancouver Sewerage and Drainage District Board repeals, subject to section 7, the "Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw No. 164" and amendments thereto and in replacement enacts as follows:

*Section 1
Amended
by Bylaw
No. 244,
2008*

1. **PURPOSE**

The purposes of this Bylaw include:

- a) protecting the Sewers and Sewage Facilities from damage and promoting the efficient and cost-effective operation of the Sewers and Sewage Facilities,
- b) promoting Biosolids quality,
- c) protecting human health and safety,
- d) assisting the District's efforts to remain in compliance with laws and regulatory instruments to which it is subject,
- e) protecting the environment, and
- f) imposing fees payable by Persons who discharge liquid waste into a Sewage Facility or whose liquid waste is treated by a Sewage Facility.

2. **INTERPRETATION**

2.1 In this Bylaw and unless the context otherwise requires:

"Air" means the atmosphere but, except in a Sewer or a Sewage Facility or as the context may otherwise require, does not include the atmosphere inside a human-made enclosure that is not open to the weather;

"Air Contaminant" means an "air contaminant" as defined in the *Environmental Management Act*,

“Air Pollution” means the presence of Air Contaminants or substances that substantially alter or impair the usefulness of the Air;

“Biochemical Oxygen Demand” or **“BOD”** means the quantity of molecular oxygen, expressed in milligrams per litre, used in the biochemical degradation of organic matter and to oxidize inorganic material during a 5-day incubation period at 20 degrees Centigrade, as determined by the appropriate procedure in Standard Methods;

“Biosolids” means “biosolids” as defined in the Organic Matter Recycling Regulation, as amended from time to time pursuant to the *Environmental Management Act*, produced by the District;

“Board” means the Greater Vancouver Sewerage & Drainage District Board;

“Code of Practice” means a code of practice adopted by the Board for the discharge of Wastewater by a class of persons annexed hereto as a Schedule;

“Code of Practice Facility” means a facility authorized under a Code of Practice;

“Chemical Oxygen Demand” or **“COD”** means the quantity of oxygen utilized in the chemical oxidation of organic matter under standard laboratory procedures, expressed in milligrams per litre, as determined by the appropriate procedure in Standard Methods;

“Combined Sewer” means a Sewer designed for the collection and transmission of Wastewater, Storm Water and Uncontaminated Water;

“Contaminant” means any substance, whether gaseous, liquid or solid, whether dissolved or suspended, that:

- a) injures or is capable of injuring the health or safety of a person,
- b) injures or is capable of injuring property or any life form,
- c) interferes or is capable of interfering with the proper operation of a Sewer or Sewage Facilities,
- d) causes or is capable of causing material physical discomfort to a person, or
- e) damages or is capable of damaging the environment;

“Discharge Abatement Order” means an Order issued under section 6;

“District” means the Greater Vancouver Sewerage and Drainage District;

“Domestic Waste” means

- (a) Waste produced on a Residential Premises, or
- (b) Sanitary Waste and wastewater from showers and restroom washbasins produced on non-residential property;

“Environmental Management Act” means the *Environmental Management Act*, S.B.C. 2003 c. 53, as amended from time to time and any successor legislation thereto and all regulations thereunder;

“Food Sector Establishment” means a food sector establishment defined in Schedule “D”;

“Former Bylaw” means the Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw No. 164, as amended;

“Grab Sample” means a sample collected at one particular time and place;

“Ground Water” means water in a saturated zone or stratum beneath the surface of land or below a surface water body;

“Hazardous Waste” means “hazardous waste” as defined in the *Environmental Management Act*;

“Hazardous Waste Regulation” means the Hazardous Waste Regulation as amended from time to time pursuant to the *Environmental Management Act*;

“High Volume Discharge” means any cumulative discharge of Non-Domestic Waste into a Sewer in excess of 300 cubic metres over any consecutive 30 day period or any instantaneous discharge of Non-Domestic Waste in excess of 30 litres per minute;

“Non-Domestic Waste” means all Wastewater except Domestic Waste, Sanitary Waste, Storm Water, Uncontaminated Water, and Septic Tank Waste;

“Officer” means a municipal sewage control officer appointed by the Board under the *Environmental Management Act* and this Bylaw;

“Oil and Grease” means any solvent extractable material of animal, vegetable or mineral origin as determined by procedures set out in Standard Methods and includes but is not limited to hydrocarbons, esters, fats, oils, waxes and high-molecular-weight carboxylic acids;

“Order” means an order issued by a Sewage Control Manager under the *Environmental Management Act* or under this Bylaw and includes a Waste Discharge Permit, a Trucked Waste Authorization, and a Discharge Abatement Order;

“Person” includes an individual, firm, company, association, society, partnership, corporation, municipality, institution or other similar organization, agency or group;

“pH” means the logarithm to the base 10 of the reciprocal of the activity of hydrogen ions, in moles per litre of solution, as determined by the appropriate procedure described in Standard Methods;

“Prohibited Waste” means a Waste set out in Schedule “A” annexed hereto;

“Residential Premises” means a building or premises or part of a building or premises used or intended to be used solely for the purpose of a residential dwelling, whether on a permanent, temporary or seasonal basis;

“Restricted Waste” means a Waste set out in Schedule “B” annexed hereto;

“Sanitary Sewer” means a Sewer which carries Sanitary Waste or Wastewater but not intended to carry Storm Water;

“Sanitary Waste” means Wastewater that contains human feces, urine, blood or body fluids originating from sanitary conveniences or other sources;

“Septic Tank Waste” means any Waste extracted from a cesspool, septic tank, sewage holding tank, seepage pit, interceptor or other containment for human excretion and wastes;

“Sewage Control Manager” means a sewage control manager appointed by the Board under the *Environmental Management Act* and under the Bylaw and includes a Deputy Sewage Control Manager appointed by the Board;

“Sewage Facility” means works owned by the District or otherwise under the control or jurisdiction of the District that gathers, treats, transports, stores, utilizes or discharges Wastewater;

“Sewer” means all pipes, conduits, drains, and other equipment and facilities, owned or otherwise under the control or jurisdiction of the District, for collecting, pumping, and transporting Wastewater either to a Sewage Facility or otherwise and includes but is not limited to all such pipes, conduits, drains and other equipment and facilities which connect with those of the District;

“Standard Methods” means the latest edition of “Standard Methods for the Examination of Water and Wastewater” jointly prepared and published from time to time by the American Public Health Association, American Water Works Association and the Water Environment Federation or any successors thereto;

“Storm Sewer” means a Sewer which is intended to carry Storm Water;

“Storm Water” means drainage water resulting from rainfall or other natural precipitation from the atmosphere and includes, but is not limited to, water from melting snow or naturally occurring ice;

“Suspended Solids” means insoluble matter in liquid that is removable by filtration, as determined by the appropriate procedure described in Standard Methods;

“Tetrachloroethylene” means an aliphatic halogenated hydrocarbon having the chemical formula C_2Cl_4 also referred to as: ethylene tetrachloride, PCE, perc, perchlor, perchlorethylene, perchloroethylene, perk, tetrachloroethene and 1,1,2,2-tetrachloroethylene;

Added by
Bylaw No.
244, 2008

“Trucked Waste” means any Non-Domestic Waste that is collected and transported off the site on which it originated by means other than discharge to a Sewer, including but not limited to Oil and Grease from interceptors and other sludges of organic origin;

“Trucked Waste Authorization” means a Trucked Waste Authorization issued by a Sewage Control Manager pursuant to Section 4.1 (a) of this Bylaw;

“Uncontaminated Water” means:

- (a) water in its natural state, that, after use for any purpose, is not substantially changed from its natural state as to chemical or biochemical qualities or temperature;
- (b) water supplied by municipal works that, after use for any purpose, is not substantially changed from its state at the point of delivery from the municipal works as to chemical or biochemical qualities or temperature; and
- (c) clean water from roof drains, building foundations, wells, and cisterns;

“Waste” means any substance whether gaseous, liquid or solid, that is discharged or discarded, directly or indirectly, to a Sewer or Sewage Facility;

“Waste Discharge Permit” means a Waste Discharge Permit issued by a Sewage Control Manager pursuant to Section 5.3 of this Bylaw.

“Wastewater” means the composite of water and water-carried Wastes from residential, commercial, industrial or institutional premises or any other source; and

3. **PROHIBITION**

- 3.1 No person shall discharge or allow or cause to be discharged into a Sewer or Sewage Facility any Prohibited Waste.
- 3.2 No person shall discharge or allow or cause to be discharged into a Sewer or Sewage Facility any Waste in a concentration or quantity that may be or may become a safety hazard to personnel operating or maintaining Sewers or Sewage Facilities.
- 3.3 No person shall discharge or allow or cause to be discharged into a Storm Sewer owned or otherwise under the control or jurisdiction of the District, any substance except Storm Water, Uncontaminated Water and water from the provision of municipal services such as street flushing and fire extinguishing activities.
- 3.4 A municipality that is a member of the District shall not be guilty of an offence under sections 3.1 to 3.3 inclusive where there is a discharge in violation of one or more of those sections by a third party without the knowledge of that municipality into a sewer or sewage facility of that municipality which connects to a Sewer or Sewage Facility unless the municipality after becoming aware of such discharge fails forthwith to advise the District.

4. **TRUCKED WASTE**

- 4.1 No person shall discharge or allow or cause to be discharged into a Sewer or a Sewage Facility any Trucked Waste unless:
- a) a person has a valid and subsisting Trucked Waste Authorization, and the discharge of the Trucked Waste is conducted at the Sewage Facilities specified in the Trucked Waste Authorization, and is otherwise strictly in accordance with the Trucked Waste Authorization; or
 - b) a person operates a Food Sector Establishment subject to the Code of Practice for Food Sector Establishments and is in full compliance with that Code of Practice and the Trucked Waste is discharged at a District facility designated for receipt of Trucked Waste.
- 4.2 No person shall discharge or allow or cause Septic Tank Waste to be discharged into a Sewer, except at a District facility designated for receipt of Septic Tank Waste.

5. **WASTE DISCHARGE PERMITS, TRUCKED WASTE AUTHORIZATIONS, ORDERS AND CODES OF PRACTICE**

- 5.1 Subject to section 5.2, no person shall discharge or allow or cause the discharge into a Sewer or a Sewage Facility any of the following:
- a) a High Volume Discharge,
 - b) Restricted Waste,
 - c) Storm Water,
 - d) Uncontaminated Water,
 - e) Groundwater,
 - f) Trucked Waste, or
 - g) water or any substance for the purpose of diluting any Non-Domestic Waste.
- 5.2 Nothing prohibits the discharge of Waste specified in section 5.1 providing it is in compliance with an applicable Waste Discharge Permit, Trucked Waste Authorization, Order, or Code of Practice.
- 5.3 A Sewage Control Manager may issue a Waste Discharge Permit to allow the discharge of Non-Domestic Waste into a Sewer upon such terms and conditions as the Sewage Control Manager considers appropriate and, without limiting the generality of the foregoing, may in the Waste Discharge Permit:
- a) place limits and restrictions on the quantity, composition, frequency and nature of the Waste permitted to be discharged;
 - b) require the holder of a Waste Discharge Permit to repair, alter, remove, or add to works or construct new works;

- c) require the holder of a Waste Discharge Permit to monitor, in the way specified by the Sewage Control Manager, the Waste being discharged under the Waste Discharge Permit and to keep records and provide information concerning the discharge and associated waste sources, treatment works and measures; and
 - d) provide that the Waste Discharge Permit will expire on a specified date, or upon the occurrence of a specified event.
- 5.4 A Sewage Control Manager may, upon application from the holder of a Waste Discharge Permit, or upon a Sewage Control Manager's own initiative, amend the terms and conditions of a Waste Discharge Permit.
- 5.5 A Sewage Control Manager may, by Order, require any person that discharges a Non-Domestic Waste directly or indirectly into a Sewer or Sewage Facility to apply for a Waste Discharge Permit.
- 5.6 Application for a Waste Discharge Permit or a Trucked Waste Authorization shall be made to a Sewage Control Manager on such forms as a Sewage Control Manager may prescribe from time to time and shall be accompanied by such information, drawings and specifications as a Sewage Control Manager may from time to time prescribe.
- 5.7 Without limiting any other provision of this Bylaw, a Sewage Control Manager may amend, suspend or revoke any Waste Discharge Permit or Trucked Waste Authorization for any purpose stated in Section 1 of this Bylaw.
- 5.8 Where a substance has been discharged into a Sewer or a Sewage Facility in contravention of any Waste Discharge Permit, Trucked Waste Authorization, Order or this Bylaw, any person who:
 - a) owns the Waste being discharged in contravention or who has charge, management, or control thereof;
 - b) owns, operates, or controls the facility from which the Waste was discharged; or
 - c) causes or contributes to the causation of the discharge

shall, at the first available opportunity, verbally report such occurrence to a Sewage Control Manager or to an Officer and shall forthwith undertake all remedial action that is available to minimize, counteract, mitigate and remedy the effect of such discharge.
- 5.9 Any person who is obliged to make a verbal report made under section 5.8 shall as soon as practicable make a written report specifying:
 - a) the quantity of the substance discharged,
 - b) the nature and composition of the substance discharged,
 - c) the duration of the discharge,
 - d) the cause of the discharge, and

- e) the corrective actions taken or proposed to minimize, counteract, mitigate, prevent the recurrence of and remedy the effect of such discharge.
- 5.10 A Waste Discharge Permit, Trucked Waste Authorization or Order may not be transferred or assigned without a Sewage Control Manager's consent in writing.

6. **DISCHARGE ABATEMENT ORDERS**

- 6.1 Whether or not a person holds and is in compliance with a Waste Discharge Permit, Trucked Waste Authorization, Order or Code of Practice, a Sewage Control Manager may, for any of the purposes set out in section 1, issue a Discharge Abatement Order.
- 6.2 A Discharge Abatement Order may:
- a) require a person to alter the quantity, composition, duration and timing of the discharge or cease discharge of Non-Domestic Waste to a Sewer or Sewage Facility; and
 - b) include any terms or conditions that could be included in a Waste Discharge Permit.

6.3 A Sewage Control Manager may amend or cancel a Discharge Abatement Order.

7. **TRANSITION**

- 7.1 A Waste Discharge Permit issued pursuant to the Former Bylaw shall be deemed to be a Waste Discharge Permit, issued under this Bylaw, provided that the holder of such Waste Discharge Permit has paid, and continues to pay, all applicable fees.
- 7.2 An Authorization issued in respect to Trucked Waste pursuant to the Former Bylaw shall be deemed to be a Trucked Waste Authorization issued under this Bylaw.
- 7.3 A Sewage Control Manager may, upon application or upon his or her own initiative, issue a Waste Discharge Permit or a Trucked Waste Authorization to a person who holds a Waste Discharge Permit or Authorization under the Former Bylaw for the same source, in which case the Waste Discharge Permit or Authorization issued under the Former Bylaw shall cease to be of effect.
- 7.4 Waste Discharge Permit Administration fees required pursuant to section 9 of the Former Bylaw will continue to be due on the anniversary date of the issuance of the Waste Discharge Permit.

8. **DISCHARGE MONITORING**

- 8.1 A Sewage Control Manager may require any person who is discharging Non-Domestic Waste into a Sewer to sample and analyze the discharge, at that person's expense, in a manner satisfactory to the Sewage Control Manager.
- 8.2 A Sewage Control Manager may require that a person who is discharging Non-Domestic Waste into a Sewer install and maintain at that person's expense and at a location

determined by the Sewage Control Manager, a discharge monitoring point for the sampling of the Non-Domestic Waste.

9. **APPOINTMENT AND POWERS OF SEWAGE CONTROL MANAGER AND OFFICER**

9.1 Without limiting the Board's powers under the *Environmental Management Act*, the Board may, from time to time, appoint one or more persons to be a Sewage Control Manager, a deputy Sewage Control Manager, or an Officer to undertake duties under this Bylaw.

9.2 Nothing in this Bylaw restricts the powers of a Sewage Control Manager or an Officer under the *Environmental Management Act*.

*Title Amended
by Bylaw No.
244, 2008*

10. **WASTE DISCHARGE PERMIT/AUTHORIZATION FEES AND COSTS**

*Section 10.1
Amended by
Bylaw No.
256, 2010*

10.1 The Board may from time to time establish fees to be charged for the application for and the administration of a Waste Discharge Permit or a Trucked Waste Authorization.

10.2 Any person who contravenes any provision of this Bylaw or any Waste Discharge Permit, Trucked Waste Authorization, Order, or Code of Practice shall be liable to the District for and shall indemnify the District from all costs, expenses, damages and injuries resulting therefrom. The provisions of this section shall not limit actions under section 13 or any other remedy the District may have under this Bylaw or otherwise at law.

10.3 The fees established by the Board under section 10.1 are set out in Schedule "C" annexed hereto.

11. **APPEALS**

11.1 A person aggrieved by a decision of a Sewage Control Manager may appeal the decision to the extent provided by the *Environmental Management Act* in accordance with the procedures provided by the *Environmental Management Act*.

*Title Amended
by Bylaw No.
244, 2008*

12. **TAMPERING WITH SEWER WORKS AND EQUIPMENT**

12.1 Except for Persons authorized by the District and authorized personnel of the District and of any member of the District, no Person shall open or tamper with any manhole cover or other appurtenance forming part of a Sewer.

*Section 12.2
Added by
Bylaw No.
244, 2008*

12.2 No Person shall break, damage, destroy, deface, or tamper with or cause or permit the breaking, damaging, destroying, defacing, or tampering with any permanent or temporary device installed in a Sewer or monitoring point determined by the Sewage Control Manager for the purpose of measuring, sampling and testing of Wastewater.

13. **OFFENCES AND PENALTIES**

13.1 Any person who contravenes this Bylaw, a Waste Discharge Permit, Trucked Waste Authorization, Order, or Code of Practice applicable to that person commits an offence and is liable to a fine not exceeding \$10,000.

- 13.2 Where there is an offence that continues for more than one day, separate fines, each not exceeding \$10,000, may be imposed for each day, or partial day, that the offence occurs or continues.
- 13.3 Nothing in this Bylaw shall limit the District from utilizing any other remedy that would otherwise be available to the District at law.

Section 14
Amended by
Bylaw No.
244, 2008

14. **LIQUID WASTE DISPOSAL FEES**

14.1 For the purposes of this section:

- a) “**Liquid Waste**” means Non-Domestic Waste and Septic Tank Waste, and for greater certainty includes Trucked Waste; and
- b) “**Liquid Waste Fee**” means a fee payable by Persons who discharge Liquid Waste into a Sewage Facility or whose Liquid Waste is treated by a Sewage Facility.

14.2 In addition to the fees set out in section 10, any Person who discharges Liquid Waste into a Sewage Facility or whose Liquid Waste is treated by a Sewage Facility shall pay a Liquid Waste Fee to the District calculated in accordance with the rates set out in Schedule “F”.

14.3 Any Person required to pay a Liquid Waste Fee for the disposal of Septic Tank Waste and Trucked Waste must apply to the District for credit and if the Treasurer of the District or that person’s designate is satisfied of the credit worthiness of the Person, then the Treasurer of the District or that person’s designate may grant credit to that Person, in which case payment of the Liquid Waste Fee shall be made and the credit extended on the following conditions:

- (a) the District will invoice Liquid Waste Fees on a monthly basis and the Person receiving credit shall pay the District within 30 days of the invoice date;
- (b) any Liquid Waste Fees not paid within 30 days of the invoice date will be subject to a monthly interest charge as specified in Schedule F; and
- (c) The Treasurer of the District or that person’s designate may suspend the credit privileges of any Person with an unpaid past due balance.

14.4 The remedies for non-payment of fees provided in this Bylaw are in addition to any other remedies available to the District at law.

Section 15
Added by
Bylaw No.
244, 2008

15. **GENERAL**

15.1 The Board may from time to time amend this Bylaw in whole or in part and may without limiting the generality of the foregoing establish or amend criteria, charges and fees relating to the discharge of Non-Domestic Waste from specified classes of persons or specific persons.

15.2 If any portion of this Bylaw is deemed *ultra vires*, illegal, invalid, or unenforceable in any way, in whole or in part, by a court or tribunal of competent jurisdiction, such decision

shall not invalidate or void the remainder of the Bylaw. The parts so held to be *ultra vires*, illegal, invalid, or unenforceable shall be deemed to be reduced in scope so as to be valid and enforceable, or in the alternative to have been stricken therefrom with the same force and effect as if such parts had never been included in this Bylaw or as revised.

- 15.3 Nothing in this Bylaw is intended to conflict with the *Environmental Management Act*. However, this Bylaw may impose further restrictions and impose further conditions than those imposed by the *Environmental Management Act*.
- 15.4 Words importing the singular number include the plural number and vice versa.
- 15.5 The schedules annexed hereto shall be deemed to be an integral part of this Bylaw.
- 15.6 This Bylaw may be cited for all purposes as "Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw No. 299, 2007".

Read a FIRST time this _____

Read a SECOND time this _____

Read a THIRD time this _____

Reconsidered, passed and finally adopted by the Greater Vancouver Sewerage and Drainage District Board this _____.

Chairperson

Secretary

**SCHEDULES
A, B, C, D, E, F, G, & H**

to

**Greater Vancouver
Sewerage and
Drainage District**

**SEWER USE BYLAW
NO. 299, 2007**

SCHEDULE "A"

PROHIBITED WASTES

The following are designated as Prohibited Wastes:

1. **FLAMMABLE OR EXPLOSIVE WASTE**

Any Waste which is capable of causing or contributing to an explosion or supporting combustion in any Sewer or Sewage Facility including, but not limited to, gasoline, benzene, naphtha, diesel or other fuel oil, waste crankcase oil and sludge resulting from the manufacture of acetylene.

2. **WASTE CAUSING OBSTRUCTION OR INTERFERENCE**

Any Waste which is capable of obstructing the flow of or interfering with the operation or performance of any Sewer or Sewage Facility including, but not limited to earth, sand, ash, glass, tar, asphalt, plastic, wood, waste portions of animals, fish or fowl, and solidified fat.

3. **WASTE CAUSING AIR POLLUTION**

Any Waste, other than Sanitary Waste, that causes Air Pollution outside any Sewer or Sewage Facility.

4. **HIGH TEMPERATURE CREATING WASTE**

- a) Any Waste which may create heat in amounts which will interfere with the operation and maintenance of the Sewer and Sewage Facility or with the treatment of Waste in a Sewage Facility;
- b) Any Waste which will raise the temperature of Waste entering any Sewage Facility to 40 degrees Centigrade (104 degrees Fahrenheit) or more;
- c) Any Non-Domestic Waste with a temperature of 65 degrees Centigrade (150 degrees Fahrenheit) or more.

5. **RADIOACTIVE WASTE (NUCLEAR SUBSTANCES)**

Waste radioactive substances in excess of quantities or concentrations specified for release to the environment under the *Nuclear Safety and Control Act* and Regulations or amended versions thereof, or under a licence issued in accordance with s. 24(1) of the *Nuclear Safety and Control Act*.

6. **BIOMEDICAL WASTE**

Any Waste that, at the point of discharge into a sewer, contains Biomedical Waste as defined in the Hazardous Waste Regulation as amended from time to time pursuant to the *Environmental Management Act*.

*Section 5
Amended by
Bylaw No.
252, 2009*

7. **SPECIFIED RISK MATERIAL FOR BOVINE SPONGIFORM ENCEPHALOPATHY**

Any Waste containing the specified risk material as defined in the federal Fertilizers Regulations (C.R.C., c. 666), as amended from time to time, including material from the skull, brain, trigeminal ganglia, eyes, tonsils, spinal cord and dorsal root ganglia of cattle aged 30 months or older, or material from the distal ileum of cattle of all ages.

8. **HAZARDOUS WASTE**

Any waste defined as Hazardous Waste in the *Environmental Management Act* with the exception of Hazardous Waste in compliance with the effluent standards contained in Schedule 1.2, Column 3 of the Hazardous Waste Regulation.

SCHEDULE "B"

RESTRICTED WASTES

Restricted Waste means any of the following:

1. **PARTICLE SIZE WASTE**

Any Non-Domestic Waste, including that from cooking and handling of food, that at the point of discharge into a Sewer, contains particles larger than 0.5 centimetres in any dimension.

2. **pH WASTE**

Any Non-Domestic Waste which, at the point of discharge into a Sewer, has a pH lower than 5.5 or higher than 10.5.

3. **SPECIFIED WASTE**

Any Wastewater which, at the point of discharge into a Sewer, contains any substance with a concentration in excess of the levels set out in Tables (A), (B) or (C) below. All concentrations are expressed as total concentrations, which include all forms of the contaminant, combined or uncombined, whether dissolved or undissolved obtained from a Grab Sample. Definitions and methods of analysis for these substances are outlined in Standard Methods or methods specified by a Sewage Control Manager.

Table A - Conventional Contaminants

Contaminant	Maximum Concentration (mg/L)
Biochemical Oxygen Demand (BOD)	500
Total Suspended Solids (TSS)	600
Total Oil and Grease ¹ (O&G – Total)	150
Oil and Grease (Hydrocarbon) (O&G – Hydrocarbon)	15

Note:

¹ Total Oil and Grease includes Oil and Grease (Hydrocarbons)

Table B - Organic Contaminants

Contaminant	Maximum Concentration (mg/L)
Phenols	1.0
Chlorophenols ¹	0.05
Polycyclic Aromatic Hydrocarbons ² (PAHs)	0.05
Benzene	0.1
Total BETX ³	1.0
Tetrachloroethylene	0.05

*Tetrachloroethylene
Added by Bylaw No.
244, 2008*

Note:

¹ Chlorophenols include:
tetrachlorophenols (2,3,4,5-, 2,3,4,6-, 2,3,5,6-)
pentachlorophenol

² Polycyclic Aromatic Hydrocarbons (PAHs) include:

acenaphthene	chrysene
acenaphthylene	dibenzo(a,h)anthracene
anthracene	fluoranthene
benzo(a)anthracene	fluorene
benzo(b)fluoranthene	naphthalene
benzo(k)fluoranthene	phenanthrene
benzo(g,h,i)perylene	pyrene
benzo(a)pyrene	indeno(1,2,3-c,d)pyrene

³ BETX include:
benzene
ethylbenzene
toluene
xylenes

Table C - Inorganic Contaminants

Contaminant	Maximum Concentration (mg/L)
Metals	
Aluminum	50.0
Arsenic	1.0
Boron	50.0
Cadmium	0.20
Chromium	4.0
Cobalt	5.0
Copper	2.0
Iron	10.0
Lead	1.0
Manganese	5.0
Mercury	0.05
Molybdenum	1.0
Nickel	2.0
Selenium	1.0
Silver	1.0
Zinc	3.0
Other Inorganic Contaminants	
Cyanide	1.0
Sulphide	1.0
Sulphate	1500

4. **WASTE CAUSING INTERFERENCE OR INJURY**

Any Waste in a concentration or quantity which may interfere with the proper operation of a Sewer or Sewage Facility or which may injure or is capable of injuring the health of any person, property, or life form.

5. **WASTE PRODUCING AIR CONTAMINANTS**

Any Waste, other than Sanitary Waste, that is capable of emitting into the air within a Sewer or Sewage Facility any substance that injures or is capable of injuring the health or safety of a person, or that causes or is capable of causing material physical discomfort to a person.

6. **CORROSIVE WASTE**

Any Waste with corrosive properties which may cause damage to any Sewer or Sewage Facility.

SCHEDULE "C"

SCHEDULE OF WASTE DISCHARGE PERMIT FEES

1. **GENERAL**

1.1.1 All fees are payable to the District except for Waste Discharge Permits issued with respect to a facility located wholly within the geographical boundaries of the City of Vancouver, in which case the fees are payable to the City of Vancouver.

2. **FEES**

2.1 **Permit Application Fee**

2.1.1 Each person who applies for a Waste Discharge Permit must pay an application fee (the "Permit Application Fee").

2.1.2 The amount of the Permit Application Fee payable is specified in Table A below:

Table A – Permit Application Fees

Application Type	Application Fee
Industrial Site	\$1000
Groundwater Remediation or Construction Excavation Site	\$500 – if maximum instantaneous flow ≤ 6 L/s \$1000 – if maximum instantaneous flow > 6 L/s

2.1.3 The Permit Application Fee must be paid at the time when an application for a Waste Discharge Permit is submitted.

2.1.4 The Permit Application Fee is not refundable.

2.2 **Permit Amendment Application Fee**

2.2.1 Each time a holder of a Waste Discharge Permit applies for an amendment to their Waste Discharge Permit the holder must pay an amendment application fee (the "Permit Amendment Application Fee"), in the amount specified in Table B below:

Table B – Permit Amendment Application Fees

Application Type	Permit Amendment Application Fee
Minor Amendment	\$250
Major Amendment	\$500

2.2.2 The following are minor amendments to a Waste Discharge Permit:

- a) name and legal address changes;
- b) monitoring program changes;

- c) a decrease in the authorized quantity of contaminants or a decrease in the authorized flow rates;
- d) a change to the authorized discharge such that, in the opinion of the Sewage Control Manager, there would be equal or less demand for regulatory and treatment services; or
- e) a change in the authorized works or measures such that, in the opinion of the Sewage Control Manager, there would be equal or less demand for regulatory and treatment services.

2.2.3 A major amendment is any amendment that is not a minor amendment.

2.2.4 The Permit Amendment Application Fee is not refundable.

2.3 Permit Administration Fee

2.3.1 The holder of a Waste Discharge Permit must pay an annual administration fee (the "Permit Administration Fee") for each Waste Discharge Permit.

2.3.2 Until December 31, 2010, the Permit Administration is \$1400.

2.3.3 Effective January 1, 2011, the Permit Administration Fee (Z) is calculated as follows:

$$Z = \$1400 + (\$300 \times A^{0.3}) + B$$

Where A = maximum daily flow, in cubic metres per day, for the facility, as specified in the Waste Discharge Permit, and

Where B = the dollar amount for the industry type, as specified in Table C below:

Table C – Industry Type Fee by North American Industrial Classification System (NAICS) Code

NAICS	Description	Industry Type Fee
3273	Cement and Concrete Product Manufacturing	\$900
23	Construction	
311	Food Manufacturing	\$1,800
3121	Beverage Manufacturing	
325	Chemical Manufacturing	
326	Plastics and Rubber Products Manufacturing	
327	Non-Metallic Mineral Product Manufacturing (excluding NAICS 3273)	
486	Pipeline Transportation	
56291	Remediation Services	
56292	Material Recovery Facilities	
722	Food Services and Drinking Places	
81232	Dry Cleaning and Laundry Services (except Coin-Operated)	
91391	Other Local, Municipal and Regional Public Administration	

NAICS	Description	Industry Type Fee
321	Wood Product Manufacturing	\$2,700
322	Paper manufacturing	
418	Miscellaneous Wholesaler-Distributors	
485	Transit and Ground Passenger Transportation	
488	Support Activities for Transportation	
511	Publishing Industries (except Internet)	
541	Professional, Scientific and Technical Services	
812921	Photo Finishing Laboratories (except One-Hour)	
331	Primary Metal Manufacturing	\$3,600
332	Fabricated Metal Product Manufacturing	
334	Computer and Electronic Product Manufacturing	
335	Electrical Equipment, Appliance and Component Manufacturing	
336	Transportation Equipment Manufacturing	
416	Building Material and Supplies Wholesaler-Distributors	
417	Machinery, Equipment and Supplies Wholesaler-Distributors	
56221	Waste Treatment and Disposal	
3241	Petroleum and Coal Products Manufacturing	\$4,500
562990	All Other Waste Management Services	

- 2.3.4 In circumstances where it is not clear which industry type the holder of a Waste Discharge Permit falls within, the Sewage Control Manager may determine the appropriate classification for the purposes of calculating the Permit Administration Fee.
- 2.3.5 The Permit Administration Fee is payable on issuance of a Waste Discharge Permit and on each anniversary thereafter.
- 2.3.6 If the Permit Administration Fee is not paid within 90 days of its due date, the subject Waste Discharge Permit will be without effect.
- 2.3.7 Permit Administration Fees falling due in the period from January 1, 2011 until January 1, 2012 will be discounted so that a holder of a Waste Discharge Permit must pay the greater of \$1400 or one-third (1/3) of the Permit Administration Fee calculated in accordance with section 2.3.3.
- 2.3.8 Permit Administration Fees falling due in the period from January 1, 2012 until January 1, 2013 will be discounted so that a holder of a Waste Discharge Permit must pay the greater of \$1400 or two-thirds (2/3) of the calculated Permit Administration Fee calculated in accordance with section 2.3.3.
- 2.3.9 After January 1, 2013 100% of the Permit Administration Fee will be payable.

2.4 Waste Discharge Permits Issued for Periods of Less Than 365 Days

2.4.1 Where a Waste Discharge Permit is issued for a period of less than 365 days, the Permit Administration Fee (at the rate applicable of the date the Permit Administration Fee is payable) will be adjusted in accordance with Table D:

Table D – Adjustment to the Permit Administration Fee for Waste Discharge Permits issued less than 365 days

Period of Time	Permit Administration Fee will be discounted by:
less than 7 days	90%
7 days - 30 days	80%
31 days - 90 days	60%
91 days - 180 days	40%
181 days - 270 days	20%
271 days - 365 days	No discount

2.5 Remedies Not Limited

2.5.1 The remedies for non-payment of fees provided in this Bylaw are in addition to any other remedies available to the District at law.

SCHEDULE “D”
CODE OF PRACTICE
FOR
WASTEWATER MANAGEMENT AT FOOD SECTOR ESTABLISHMENTS

1. PURPOSE

This Code of Practice for Food Sector Establishments sets out the requirements for managing Waste discharged directly or indirectly from a Food Sector Establishment into a Sewer or a Sewage Facility.

2. DEFINITIONS

2.1 In this Code of Practice the following meanings apply:

“Fixture” means a receptacle, appliance, apparatus or other device that discharges wastewater and includes floor drains;

“Food Grinder” means a Fixture that is a mechanical device (also known as a garburator) used to reduce the particle size of food waste;

“Food Sector Establishment” means:

- (a) a business establishment or institutional facility where food is prepared or made ready for eating or packaged and thereafter shipped to any establishment described in (b) or (c) below;
- (b) a retail establishment or institutional facility where food is prepared and made ready for retail sale or sold to the public and includes grocery stores, fresh produce stores, bakeries, butcher shops and similar establishments;
- (c) a business or institutional eating or drinking establishment where food is prepared or made ready for eating and is sold or served to the public (or with respect to institutions, sold or served to persons employed at, served by or attending those institutions) whether or not consumed on the premises, and includes restaurants, delicatessens, fast-food outlets, cafeterias, hospitals, pubs, bars, lounges or other similar establishments;

“Garbage Compactor” means a mechanical device used to compress garbage to reduce volume;

“Grease Interceptor” means a device (also known as a grease trap) designed and installed to separate and retain Oil and Grease from wastewater, while permitting wastewater to discharge to Sewer.

3. APPLICATION

3.1 This Code of Practice applies to Food Sector Establishments.

- 3.2 This Code of Practice does not apply to Residential Premises.
- 3.3 A Sewage Control Manager may issue a Waste Discharge Permit or Order to a person notwithstanding that the person owns or operates a Food Sector Establishment.
- 3.4 If a Sewage Control Manager issues a Waste Discharge Permit or Order to the owner or operator of a Food Sector Establishment, this Code of Practice does not apply unless the Waste Discharge Permit or Order so provides.
- 3.5 Nothing in this Code of Practice exempts a person discharging Waste from complying with the Bylaw, a Waste Discharge Permit, an Order or Trucked Waste Authorization issued under the Bylaw and all other applicable enactments.

4. **REQUIREMENTS**

4.1 **Effective Date**

- 4.1.1 All Food Sector Establishments must comply with the provisions of this Code of Practice.

4.2 **Discharge Regulation**

- 4.2.1 An owner or operator of a Food Sector Establishment must not discharge Wastewater which at the point of discharge into a Sewer contains:

- (a) Restricted Waste other than Oil and Grease and Suspended Solids,
- (b) Prohibited Waste as defined in the Bylaw and regulated by the Bylaw.

4.3 **Grease Interceptors**

- 4.3.1 All Food Sector Establishments that discharge wastewater containing Oil and Grease must install and maintain a Grease Interceptor in accordance with this Code of Practice.

- 4.3.2 Food Sector Establishments that discharge wastewater containing Oil and Grease must connect the following Fixtures to a fully functional and operating Grease Interceptor:

- (a) sinks used for washing pots, pans, dishes, cutlery, and kitchen utensils;
- (b) drains serving self-cleaning exhaust hoods installed over commercial cooking equipment;
- (c) drains serving commercial cooking equipment;
- (d) drains serving a Garbage Compactor used to compact garbage that may contain, or be contaminated with, food waste;
- (e) any other Fixture that discharges wastewater containing Oil and Grease.

- 4.3.3 The following Fixtures in a Food Sector Establishment must not be connected to a Grease Interceptor:

- (a) Food Grinders, potato peelers, and similar equipment discharging solids; and
- (b) toilets, urinals and hand sinks.

Grease Interceptor Size and Installation

- 4.3.4 An automatic dishwasher in a Food Sector Establishment may be connected to a Grease Interceptor provided that there are no other Fixtures connected to the Grease Interceptor and the Grease Interceptor is of a size to accept the maximum discharge rate specified by the dishwasher manufacturer.
- 4.3.5 Grease Interceptors in a Food Sector Establishment must be labeled with information containing the rated flow capacity of the unit. The label must be permanently affixed and visible following installation. Where a permanently affixed and visible label is not possible or practical, manufacturer's and installation drawings of the Grease Interceptor must be maintained at the Food Sector Establishment and available for inspection on request by an Officer.
- 4.3.6 All Grease Interceptors must be connected so that all discharges are made either to a Sanitary Sewer or to a Combined Sewer. A Grease Interceptor must not be connected so as to discharge into a Storm Sewer.
- 4.3.7 The flow capacity of a Grease Interceptor in a Food Sector Establishment must not be less than the maximum discharge flow from all Fixtures connected to the Grease Interceptor that will discharge simultaneously.
- 4.3.8 Grease Interceptors in Food Sector Establishments must:
 - (a) without limiting the provisions of sections 4.3.4 and 4.3.7, have a flow capacity of not less than 3.2 L/s (50 US gpm);
 - (b) be located so that they are readily and easily accessible for inspection and maintenance; and
 - (c) be equipped with a sampling tee located outside the building in which Food Sector Establishment is located. The sampling tee must not be less than 15.2 cm (6 inches) nominal diameter and must be installed so that it opens in a direction at right angles to and vertically above the flow of the sewer pipe. The sampling tee must be accessible at all times for inspection.

Grease Interceptor Operation and Maintenance

- 4.3.9 Operators of Food Sector Establishments must maintain and repair Grease Interceptors so that they are fully operational and effective at all times.
- 4.3.10 The maximum depth of Oil and Grease which an operator of a Food Sector Establishment may allow to accumulate in a Grease Interceptor prior to servicing must not exceed the lesser of 15.2 cm (six inches) or 25% of the wetted height of the Grease Interceptor.

- 4.3.11 The operator of a Food Sector Establishment must keep and maintain at the Food Sector Establishment, a record of all Grease Interceptor inspections and maintenance carried out, recording the date of inspection, the date of cleaning or maintenance, the type and quantity of material removed from the Grease Interceptor and the disposal location. The inspection and maintenance record must be retained for a period of two years and must be available for inspection by an Officer.
- 4.3.12 Oil and Grease removed from Grease Interceptors must not be discharged to any Sewer, Sanitary Sewer, Storm Sewer, or other sewer, drainage ditch or surface water.
- 4.3.13 Oil and Grease removed from Grease Interceptors must not be disposed of with regular garbage.
- 4.3.14 Oil and Grease removed from Grease Interceptors at Food Sector Establishments may be disposed of at a facility operated by the District for the purpose of receiving Non-Domestic Trucked Waste in accordance with operational requirements established for the facility.
- 4.3.15 No person shall use enzymes, solvents, hot water or other agents in order to facilitate the passage of Oil and Grease through a Grease Interceptor.

4.4 **Garbage Compactors**

- 4.4.1 An operator of a Food Sector Establishment that installs a Garbage Compactor, which is used to compact waste containing food, must install it on a concrete pad that is equipped with a drain connected to a Grease Interceptor.
- 4.4.2 A Garbage Compactor that is installed outdoors must be provided with a rain cover and curbing as necessary to prevent rainwater from entering the drain connected to the Grease Interceptor.

5. **EXEMPTIONS**

- 5.1 An operator of a Food Sector Establishment may request an exemption to a particular requirement of this Code of Practice by submitting a written request to the Sewage Control Manager setting out in detail the reasons for the request for exemption. A Sewage Control Manager may approve, deny or approve on terms and conditions such a request.
- 5.2 A Sewage Control Manager may, by Waste Discharge Permit or Order, on his or her initiative, exempt an operator of a Food Sector Establishment from any requirements of this Code of Practice.

SCHEDULE "E"

CODE OF PRACTICE FOR DENTAL OPERATIONS

1. PURPOSE

Pursuant to section 5.2 of the Bylaw, this Code of Practice for Dental Operations sets out the requirements for managing Non-Domestic Waste discharged directly or indirectly from a Dental Operation into a Sewer or a Sewage Facility.

2. DEFINITIONS

2.1 In this Code of Practice the following meanings apply:

"Certified Amalgam Separator" means any Amalgam Separator that is certified in accordance with ISO Standard ISO/FDIS 11143: (1999) for "Dental Equipment – Amalgam Separators" established by the International Organization of Standardization or any alternative deemed equivalent or better by the Sewage Control Manager;

"Dental Amalgam" means a dental filling material consisting of an amalgam containing any of the following:

- (a) mercury,
- (b) silver,
- (c) copper,
- (d) tin, or
- (e) zinc;

"Dental Operation" means any operation that carries out dental care, dental hygiene, dental laboratory activities, or dental school.

3. APPLICATION

3.1 This Code of Practice applies to Dental Operations that produce Non-Domestic Waste containing Dental Amalgam. If work in a dental office is limited to work that does not involve placing or removing Dental Amalgam then this Code of Practice does not apply.

3.2 Notwithstanding this Code of Practice, a Sewage Control Manager may issue an Order for any of the purposes identified in section 1 of the Bylaw.

3.3 A Sewage Control Manager may issue a Waste Discharge Permit to a person that owns or operates a Dental Operation authorizing the discharge of Non-Domestic Waste.

4. REQUIREMENTS

- 4.1 On or before July 1, 2008, all Dental Operations that discharge Wastewater containing Dental Amalgam to Sewer shall install a Certified Amalgam Separator according to manufacturer's or supplier's instructions and specifications. After July 1, 2008, no Dental Operation shall discharge Non-Domestic Waste containing Dental Amalgam to Sewer unless the Non-Domestic Waste has been treated using the Certified Amalgam Separator prior to discharge to Sewer.
- 4.2 The discharge from a Certified Amalgam Separator may not contain Restricted Wastes other than the Restricted Wastes contained in Dental Amalgam: mercury, silver, copper or zinc.
- 4.3 The Certified Amalgam Separator shall have a design and capacity appropriate for the size and type of vacuum system in use.
- 4.4 An owner or operator of a Dental Operation shall operate and maintain the Certified Amalgam Separator according to the manufacturer's or supplier's instructions and specifications.
- 4.5 An owner or operator of a Dental Operation shall allow the District to inspect the vacuum system, Certified Amalgam Separator, and Amalgam Waste storage areas upon request, at any time during the ordinary business hours of the Dental Operation.

5. RECORD KEEPING AND RETENTION

- 5.1 An operator of a Dental Operation shall maintain records of the Certified Amalgam Separator maintenance including:
- Date of service
 - Name and contact information of person servicing or maintaining the Certified Amalgam Separator
 - Approximate quantity of Waste removed
 - Name and contact information of person accepting the Waste from the Certified Amalgam Separator
 - Observations regarding the performance of the equipment
- 5.2 An operator of a Dental Operation shall maintain these records for a minimum of three years and shall make these records available to an Officer upon request at any time during the ordinary business hours of the Dental Operation.

6. EXEMPTIONS

- 6.1 An operator of a Dental Operation may request an exemption to a particular requirement of this Code of Practice by submitting a written request to the Sewage Control Manager setting out in detail the reasons for the request for exemption. A Sewage Control Manager may approve, deny or approve on terms and conditions such a request.
- 6.2 A Sewage Control Manager may, by Waste Discharge Permit or Order, on his or her initiative, exempt an operator of a Dental Operation from any requirements of this Code of Practice.

SCHEDULE "F"

SCHEDULE OF LIQUID WASTE DISPOSAL FEES

1. GENERAL

- 1.1 All Liquid Waste Disposal Fees are payable to the District.
- 1.2 Interest at the rate of 1.25% per month (15% per annum) will be charged on past due balances.

2. SEPTIC TANK WASTE AND TRUCKED WASTE FEES

- 2.1 The Liquid Waste Fees for disposal of Septic Tank Waste or Trucked Waste are:

Septic Tank Waste	\$7.62 per cubic metre
Trucked Waste	\$86.40 per cubic metre

3. INDUSTRIAL TREATMENT FEES

- 3.1 The holder of a Waste Discharge Permit, excluding a Waste Discharge Permit issued for a groundwater remediation or construction excavation site, must pay an industrial treatment fee ("Industrial Treatment Fee").
- 3.2 The Industrial Treatment Fee will consist of two parts, a usage charge and a capacity charge.
- 3.3 The Industrial Treatment Fee will be calculated in accordance with the formulae outlined in sections 3.5 and 3.6.
- 3.4 The Industrial Treatment Fee will be invoiced quarterly and will be due on the date specified in the invoice.
- 3.5 Usage Charge
- 3.5.1 At the end of each three month period (a "quarter"), the usage charge will be calculated with reference to (i) the actual volume of non-domestic wastewater and (i) the actual amount of regulated substance discharged during that quarter.
- 3.5.2 For each quarter, the usage charge for volume will be calculated using the following formula:

$$D = F_q \times R$$

Where:

D = usage charge for volume, in dollars (\$).

F_q = total volume of non-domestic wastewater discharged in the quarter, in cubic metres (m³).

R = unit rate for volume for the sewerage area where the premises covered by the Waste Discharge Permit are located, as listed in Table A.

Table A – Unit rates for volume for each Sewerage Area – usage charge

Sewerage Area	Unit rate (\$/m ³)
Fraser Sewerage Area (including NW Langley)	0.149
Lulu Island West Sewerage Area	0.170
North Shore Sewerage Area	0.225
Vancouver Sewerage Area	0.080

3.5.3 For each quarter, the total amount of each regulated substance listed in Table B will be calculated using the following formula:

$$L_a = \frac{C_a \times F}{1000}$$

Where:

L_a = total amount of regulated substance "a" for the quarter, in kg.

C_a = average concentration of regulated substance "a", in mg/L.

F = total volume of non-domestic wastewater discharged during the quarter, in cubic metres (m³).

3.5.4 For each quarter, the usage charge for each regulated substance will be calculated using the following formula:

$$D_a = L_a \times R_a$$

Where:

D_a = usage charge for regulated substance "a", in dollars (\$).

L_a = total amount of regulated substance "a", as calculated in accordance with 3.5.3.

R_a = unit rate for regulated substance "a" as listed in Table B, in \$/kg for the sewerage area where the premises covered by the Waste Discharge Permit are located.

Table B – Unit rates for regulated substances for each Sewerage Area – usage charge

Sewerage Area	BOD (\$/kg)	TSS (\$/kg)
Fraser Sewerage Area (including NW Langley)	0.340	0.399
Lulu Island West Sewerage Area	0.547	0.547
North Shore Sewerage Area	0.148	0.983
Vancouver Sewerage Area	0.065	0.613

3.5.5 For each quarter, the total usage charge payable will be the sum of (i) the quarterly usage charge for volume and (ii) the quarterly usage charges for the regulated substances listed in Table B.

3.6 Capacity Charge

3.6.1 At the end of the first quarter of each calendar year the annual capacity charge will be calculated with reference to (i) the volume of non-domestic wastewater and (ii) the amount of regulated substance discharged during the previous calendar year.

3.6.2 The capacity charge will be divided into four equal installments and will be invoiced to a holder of a Waste Discharge Permit each quarter at the same time as the usage charge.

3.6.3 For each calendar year, the capacity charge for volume will be calculated using the following formula:

$$D = \frac{F_Y \times R}{OD}$$

Where:

- D = capacity charge for volume, in dollars (\$).
- F_Y = total volume of non-domestic wastewater discharged in the previous calendar year, in cubic metres (m³).
- R = unit rate for volume for the sewerage area where the premises covered by the Waste Discharge Permit are located, as listed in Table C.
- OD = the number of days in the previous calendar year that the permit holder discharged to sanitary sewer.

Table C – Unit rates for volume for each Sewerage Area – capacity charge

Sewerage Area	Volume (\$/m ³ /d)
Fraser Sewerage Area (including NW Langley)	11.664
Lulu Island West Sewerage Area	5.585
North Shore Sewerage Area	24.764
Vancouver Sewerage Area	32.792

3.6.4 For each calendar year, the average daily amount of each regulated substance listed in Table D will be calculated as follows:

$$L_a = \frac{C_a \times F}{1000 \times OD}$$

Where:

- L_a = average daily amount of regulated substance "a", in kg/day.
- C_a = average concentration of regulated substance "a", in mg/L.
- F = total volume of non-domestic wastewater discharged during the previous calendar year, in cubic metres (m³).

OD = the number of days in the previous calendar year that the permit holder discharged to sanitary sewer.

3.6.5 For each calendar year, the capacity charge for each regulated substance will be calculated using the following formula:

$$D_a = L_a \times R_a$$

Where:

D_a = capacity charge for regulated substance "a", in dollars (\$).

L_a = average daily amount of regulated substance "a" for a calendar year, in kg/day, as calculated in accordance with section 3.6.4.

R_a = unit rate for regulated substance "a", as listed in Table D, in \$/kg/day for the sewerage area where the premises covered by the Waste Discharge Permit are located.

Table D – Unit rates for regulated substances for each Sewerage Area – capacity charge

Sewerage Area	BOD (\$/kg/d)	TSS (\$/kg/d)
Fraser Sewerage Area (including NW Langley)	35.055	28.942
Lulu Island West Sewerage Area	48.476	27.186
North Shore Sewerage Area	40.893	52.348
Vancouver Sewerage Area	46.383	69.812

3.6.6 For each calendar year the total capacity charge payable will be the sum of the (i) capacity charge for volume and (ii) the capacity charges for the regulated substances listed in Table D.

3.7 Remedies Not Limited

3.7.1 The remedies for non-payment of fees provided in this Bylaw are in addition to any other remedies available to the District at law.

SCHEDULE "G"

CODE OF PRACTICE FOR DRY CLEANING OPERATIONS USING TETRACHLOROETHYLENE

1. PURPOSE

Pursuant to section 5.2 of the Bylaw, this Code of Practice for Dry Cleaning Operations using Tetrachloroethylene, sets out the requirements for managing Non-Domestic Waste containing Tetrachloroethylene discharged directly or indirectly from a Dry Cleaning Operation into a Sewer or a Sewage Facility.

2. DEFINITIONS

2.1 In this Code of Practice the following meanings apply:

"Activated Carbon" means treated or prepared granular carbon capable of removing organic compounds and other substances from Waste or Wastewater through the processes of adsorption and absorption;

"Dry Cleaning Operation" means any commercial, industrial or institutional operation or a public authority engaged in the cleaning of textile and apparel goods, rugs, furs, leathers and other similar articles using Tetrachloroethylene;

"Tetrachloroethylene-Contaminated Residue" means any solid, liquid or sludge containing Tetrachloroethylene, other than Wastewater, that is produced by a Dry Cleaning Operation; and

"Tetrachloroethylene/Water Separator" means equipment used to separate Tetrachloroethylene and water by gravity.

3. APPLICATION

3.1 This Code of Practice applies to any Dry Cleaning Operation discharging Non-Domestic Waste containing Tetrachloroethylene directly or indirectly into a Sewer or Sewage Facility.

3.2 Notwithstanding this Code of Practice, a Sewage Control Manager may issue an Order for any of the purposes identified in section 1 of the Bylaw.

3.3 A Sewage Control Manager may issue a Waste Discharge Permit authorizing the discharge of Non-Domestic Waste to a Person that owns or operates a Dry Cleaning Operation.

4. REQUIREMENTS

4.1 On the date of adoption of this Code of Practice, the owner or operator of a dry cleaning machine discharging Non-Domestic Waste containing Tetrachloroethylene to Sewer must, in addition to the dry cleaning machine's integral Tetrachloroethylene/Water Separator, install and maintain the following treatment works:

- (a) a second Tetrachloroethylene/Water Separator that recovers Tetrachloroethylene from the Wastewater exiting the integral Tetrachloroethylene/Water Separator;
 - (b) an initial filter containing Activated Carbon that removes the Tetrachloroethylene from the Wastewater exiting the second Tetrachloroethylene/Water Separator,
 - (c) a monitor-alarm that automatically shuts down the Wastewater treatment system and stops the discharge of Wastewater containing Tetrachloroethylene into the Sewer when the initial filter becomes saturated with Tetrachloroethylene; and
 - (d) a second filter containing Activated Carbon that removes Tetrachloroethylene from the Wastewater after it passes through the initial filter and past the monitor-alarm.
- 4.2 An operator of a Dry Cleaning Operation who operates the Tetrachloroethylene/Water Separators referred to in section 4.1 must visually inspect all Tetrachloroethylene/Water Separators on a daily basis to ensure that the level of Tetrachloroethylene does not reach the Wastewater outlet of the separators.
- 4.3 If the level of the Tetrachloroethylene referred to in section 4.2 reaches the Wastewater outlet of the separator, an operator of a Dry Cleaning Operation must:
- (a) cease operation to prevent the discharge of Tetrachloroethylene from the Tetrachloroethylene/Water Separator;
 - (b) clean the Tetrachloroethylene/Water Separator in accordance with manufacturer's recommendations; and
 - (c) return the Tetrachloroethylene from the separator to the solvent recovery system or collect and store it for off-site waste management.
- 4.4 An operator of a Dry Cleaning Operation who installs the Activated Carbon filters referred to in sections 4.1(b) and (d) must replace both the initial and second filter containing Activated Carbon at least once every 12 months or when one of the following occurs:
- (a) on or before reaching the manufacturer's or supplier's recommended expiry date;
or
 - (b) when the monitor-alarm referred to in section 4.1(c) has been triggered.

5. STORAGE AND CONTAINMENT

- 5.1 An operator of a Dry Cleaning Operation must ensure that all dry cleaning machines and treatment works are located and operated within a Tetrachloroethylene-impermeable secondary spill containment system that will prevent any spilled material from entering a Sewer.
- 5.2 An operator of a Dry Cleaning Operation must store all new and used Tetrachloroethylene, Tetrachloroethylene-Contaminated Residue and untreated

Wastewater within a Tetrachloroethylene-impermeable spill containment system that will prevent any spilled material from entering a Sewer.

- 5.3 The containment systems identified in sections 5.1 and 5.2 must encompass at least the entire surface under each dry cleaning machine, tank or other container containing Tetrachloroethylene, Wastewater or Tetrachloroethylene-Contaminated Residue and be sufficient to hold at least 110% of the capacity of the largest tank, container or works within the containment system.
- 5.4 Drains located within the containment system must be sealed with Tetrachloroethylene-resistant drain plugs.

6. RECORD KEEPING AND RETENTION

- 6.1 An operator of a Dry Cleaning Operation who installs the treatment works to enable the discharge of Wastewater to Sewer must keep a record of all inspection and maintenance activities for the treatment works, including the:
 - (a) date of inspection or maintenance; and
 - (b) description of inspection or maintenance conducted;
- 6.2 An operator of a Dry Cleaning Operation must maintain records of all purchases of Tetrachloroethylene, and of all disposals or recycling of Tetrachloroethylene contaminated waste products. These records must include:
 - (a) name, civic and postal address, and telephone number of each supplier, disposal or recycling company or facility used by the Dry Cleaning Operation;
 - (b) quantity of Tetrachloroethylene purchased (in kilograms);
 - (b) type of material transferred to each company or facility;
 - (c) quantity of material transferred to each company or facility (in kilograms); and
 - (d) date of material transferred to each company or facility.
- 6.3 The records required under sections 6.1 and 6.2 must be retained at the principle place of business for a period of five years and must be available for inspection on request by an Officer.
- 6.4 The Sewage Control Manager may require an operator of a Dry Cleaning Operation to undertake an audit by a qualified professional to verify the degree of compliance with this Code of Practice.
- 6.5 The operator of a Dry Cleaning Operation must immediately report to the Sewage Control Manager any accidental releases of Tetrachloroethylene to Sewer and shall forthwith undertake all remedial action that is available to minimize the effect of such discharges.

SCHEDULE "H"

CODE OF PRACTICE FOR PHOTOGRAPHIC IMAGING OPERATIONS USING SILVER

1. PURPOSE

Pursuant to section 5.2 of the Bylaw, this Code of Practice for Photographic Imaging Operations sets out the requirements for managing Non-Domestic Waste discharged directly or indirectly from a Photographic Imaging Operation into a Sewer or a Sewage Facility.

2. DEFINITIONS

2.1 In this Code of Practice the following meanings apply:

"Chemical Recovery Cartridge" means a cartridge capable of removing silver from silver-bearing Wastewater through the principle of metallic replacement;

"Electrolytic Recovery" means a method of recovering silver from silver-bearing Wastewater by passing a direct electrical current between electrodes suspended in the Wastewater;

"Photographic Imaging Operation" means any operation which carries out photographic film processing or printing that uses silver in image forming or creates waste containing silver;

"Silver Recovery System" means the combination of holding tanks, metering pumps, plumbing and silver recovery technology which is used to treat Wastewater containing silver produced by Photographic Imaging Operations.

"Silver Recovery Technology" means equipment that is designed to recover silver from Wastewater produced by photographic imaging operations using such methods as metallic replacement, electrolysis, ion exchange or chemical precipitation including: electrolytic units, chemical recovery cartridges, chemical precipitation units and ion exchange units.

"Silver-Rich Solution" is a solution containing sufficient silver such that effective recovery can be done either on-site or off-site. Within photographic processing facilities, such solutions include, but are not limited to, fix and bleach-fix solutions, stabilizers, low replenished (low-flow) washes, and all functionally-similar solutions. It does not include low silver concentration solutions such as used developers, bleaches, stop baths, pre-bleaches, and stabilizers following washes and wash waters.

3. APPLICATION

3.1 This Code of Practice applies to Photographic Imaging Operations that discharge Non-Domestic Waste containing silver directly or indirectly into a Sewer or Sewage Facility.

3.2 Notwithstanding this Code of Practice, a Sewage Control Manager may issue an Order for any of the purposes identified in section 1 of the Bylaw.

3.3 A Sewage Control Manager may issue a Waste Discharge Permit to a Person that owns or operates a Photographic Imaging Operation authorizing the discharge of Non-Domestic Waste.

4. REQUIREMENTS

4.1 On or before January 1, 2009, an operator of a Photographic Imaging Operation that discharges Non-Domestic Waste containing silver must treat the Waste at the Photographic Imaging Operation site prior to discharge to the Sewer using one of the following Silver Recovery Technologies:

- (a) two Chemical Recovery Cartridges connected in a series; or
- (b) an Electrolytic Recovery unit followed by two Chemical Recovery Cartridges connected in series; or
- (c) any other Silver Recovery Technology, or combination of technologies that is capable of reducing the concentration of silver in the Wastewater to 5 mg/L or less and is acceptable to the Sewage Control Manager.

4.2 The discharge from a Photographic Imaging Operation may not contain Restricted Wastes other than the following:

- (a) iron; and
- (b) sulphate

4.3 The discharge from a Photographic Imaging Operation may not contain silver in a concentration that is in excess of 5 milligrams per litre (mg/L) as analyzed by a Grab Sample.

4.4 An operator of a Photographic Imaging Operation must install, operate and maintain the Silver Recovery System according to the manufacturer's or supplier's instructions and specifications.

4.5 An operator of a Photographic Imaging Operation must locate the Silver Recovery System in such a manner that an accidental spill, leak or container failure will not result in Wastewater containing silver in concentrations greater than 5.0 mg/L entering any Sewer.

4.6 An operator of a Photographic Imaging Operation must test the discharge to Sewer annually to confirm the effectiveness and efficiency of the Silver Recovery System and to confirm compliance with section 4.3.

4.7 An owner or operator of a Photographic Imaging Operation shall allow the inspection of the Silver Recovery System upon request by an Officer at any time during the ordinary business hours of the Photographic Imaging Operation.

5. RECORD KEEPING AND RETENTION

- 5.1 An operator of a Photographic Imaging Operation shall maintain records of all:
- a) Silver Recovery System maintenance and inspections including:
 - i) date of service;
 - ii) description of service; and
 - iii) Name and contact information of person servicing or maintaining the Silver Recovery System;
 - b) Silver monitoring test results.
- 5.2 An operator of a Photographic Imaging Operation shall maintain these records for a minimum of three years and shall make these records available to an Officer upon request at any time during the ordinary business hours of the Photographic Imaging Operation.
- 5.3 The Sewage Control Manager may require an operator of a Photographic Imaging Operation to undertake an audit by a qualified professional to verify the degree of compliance with this Code of Practice.
- 5.4 The operator of a Photographic Imaging Operation must immediately report to the Sewage Control Manager any accidental releases of Silver Rich Solutions to Sewer and shall forthwith undertake all remedial action that is available to minimize the effect of such discharges.