

DISTRICT OF CAMPBELL RIVER

PROVINCE OF BRITISH COLUMBIA

BYLAW NO: 2594

WHEREAS the Council of the District of Campbell River may by bylaw, pursuant to the Municipal Act, provide for the establishment of a system of sewer works for the collection, conveyance and disposal of sewage, and compel and regulate the emptying, cleansing and disinfecting of private drains, cesspools, septic tanks and privies, and the removal and disposal of refuse from them;

NOW THEREFORE the Council of the District of Campbell River in open meeting assembled hereby enacts as follows:

TITLE

1. This Bylaw may be cited for all purposes as **“Sanitary Sewer Source Control Bylaw No. 2594, 1997”**

DEFINITIONS

2. In this Bylaw:

- “BOD” means biochemical oxygen demand, being the quantity of oxygen utilized in the biochemical oxidation of organic substances under standard laboratory procedures in 5 days at 20 degrees Celsius expressed in milligrams per litre, as determined by the appropriate procedure in Standard Methods.
- “Building Inspector” means the Chief Building Inspector of the District or his designate.
- “COD” means chemical oxygen demand, being a measure of the oxygen equivalent of the organic matter content of a sample that is susceptible to oxidation by a strong chemical oxidant, as determined by the appropriate procedure in Standard Methods.
- “Composite Sample” means a sample of waste which is composed of equivalent portions of a specified number of Grab Samples collected manually or automatically at the same sampling point, at specified times or flow intervals during a specified sampling period.
- “Contaminant” means any substance, whether gaseous, liquid or solid, whether dissolved or suspended, or any Wastewater quality parameter that, when present above a certain concentration in Wastewater:
- (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;

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- (c) interferes or is capable of interfering with the proper operation of a Sewer or Sewage Facility;
- (d) causes or is capable of causing material physical discomfort to a person; or
- (e) damages or is capable of damaging the environment.

"District"	means the District of Campbell River.
"Domestic Sewage"	means the Sanitary Waste produced on a residential property.
"Domestic Waste"	means Sanitary Waste or the water-carried wastes from drinking, culinary purposes, washing, bathing, laundering or food processing which is produced on a residential property and is discharged directly or indirectly into a Sewer connected to a Sewage Facility operated by the District.
"Engineer"	means the Municipal Engineer of the District or his designate.
"Grab Sample"	means a sample of waste collected as at a particular time and place.
"High Volume Discharge"	means any discharge of Non-domestic Waste into a Sewer in excess of 10 cubic meters per day or 300 cubic meters over any consecutive 30 day period but not including water from a pool.
"Monitoring Point"	means an access point to a Sewer, private drainage system, or other Sewer for the purpose of: <ul style="list-style-type: none">(a) measuring the rate of flow or volume of Wastewater being discharged from a premises; or(b) collecting representative samples of Wastewater being discharged from a premises.
"Non-domestic Waste"	means all waste except Domestic Waste, Sanitary Waste, Stormwater, and uncontaminated water.
"Oil and Grease"	means an organic substance or substances recoverable by procedures set out in Standard Methods or procedures authorized by the Engineer and includes, but is not limited to, hydrocarbons, esters, fats, oils, water, and high-molecular weight carboxylic acids.
"PCB"	means any monochlorinated, dichlorinated, or polychlorinated biphenyl or any mixture that contains one or more of these.
"Pesticides"	means pesticides regulated under the Pesticide Control Act of British Columbia.

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“Phenols”	means the hydroxyl derivatives of aromatic hydrocarbons as determined by the appropriate procedure described in Standard Methods.
“Prohibited Waste”	means prohibited waste as defined in Schedule “A” of this Bylaw.
“Radioactive Materials”	means radioactive materials as defined in the Atomic Energy Control Act of Canada and Regulations under that Act.
“Restricted Waste”	means restricted waste as defined in Schedule “B” of this Bylaw.
“Sanitary Waste”	means waste that contains human feces, urine, blood or body fluids originating from sanitary conveniences or other sources.
“Sewage Facility”	means Works owned or otherwise under the control or jurisdiction of the District that gathers, treats, transports, stores, utilizes or discharges waste.
“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 all such pipes, conduits, drains, and other equipment and facilities which connect with those of the District.
“Sharps”	means hypodermic needles, hypodermic syringes, blades, broken glass, and any devices, instruments or other objects which have acute rigid corners, edges or protuberances.
“Sludge”	means Wastewater containing more than 0.5% total solids.
“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 Pollution Control Federation.
“Stormwater”	means water resulting from natural precipitation from the atmosphere and which is transported in, or intended to be transported in, a storm sewer, or a watercourse.
“Suspended Solids”	means the portion of total solids retained by a filter, as determined by the appropriate procedure in Standard Methods.
“Waste”	means any substance whether gaseous, liquid, or solid, that is or is intended to be discharged or discarded, directly or indirectly, to a Sewer or Sewage Facility.
“Waste Discharge Permit”	means a Waste Discharge Permit issued by the Engineer under this Bylaw.

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- "Wastewater" means the composite of water and water-carried wastes from residential, commercial, industrial or institutional premises or any other source.
- "Water" includes sea water, surface water, groundwater and ice.
- "Works" includes:
- (a) a drain, ditch, Sewer or waste disposal system including a sewage treatment plant, pumping station or outfall;
 - (b) a device, equipment, land or a structure that:
 - (i) measures, handles, transports, stores, treats or destroys waste or a Contaminant, or
 - (ii) introduces waste or a Contaminant into the environment;
 - (c) an installation plant, machinery, equipment, land; or a process that causes or may cause a release of a Contaminant into the environment, or is designed or used to measure or control the introduction of waste into the environment, or to measure or control a Contaminant; or
 - (d) an installation, plant, machinery, equipment, land or a process that monitors or cleans up a Contaminant or waste.

PROHIBITED DISCHARGE

3. No person shall discharge, or allow or cause to be discharged, into a Sewer or Sewage Facility:
- (a) any Prohibited Waste or any water or any other substance for the purpose of diluting any Non-domestic Waste otherwise discharged; and
 - (b) except as permitted by a Waste Discharge Permit any Restricted Waste, High Volume Discharge, Storm water or cooling waste, or any uncontaminated water in a volume greater than 2.0 cubic meters per day.

WASTE DISCHARGE PERMIT

4. An application for a Waste Discharge Permit or to amend an existing Waste Discharge Permit, shall be made to the Engineer in prescribed form as attached as Schedule "C" and shall be accompanied by such information, drawings, and specifications as therein required.

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5. The Engineer may approve a Waste Discharge Permit to allow the discharge of those matters set out in Section 3(b) of this Bylaw on such terms and conditions as the Engineer considers appropriate for the protection of Sewers, Sewage Facilities, human or animal health and safety, and the environment, including:
 - a) limits and restrictions on the quantity, frequency, and nature of the waste permitted to be discharged; and
 - b) the requirement that the holder of a Waste Discharge Permit, at their own expense,
 - (i) construct, repair, alter, remove, or add Works, to ensure that the discharge will comply with the Waste Discharge Permit;
 - (ii) monitor the waste being discharged under the Waste Discharge Permit in the manner specified by the Engineer and provide information concerning the discharge as requested by the Engineer including routine maintenance check dates, cleaning and waste removal dates, and the means of disposal of accumulated wastes and waste treatment residuals;
 - (iii) submit to the Engineer detailed plans and operating procedures for all existing facilities installed on the premises for the purpose of preventing accidental discharge;
 - (iv) comply with such other enactments as the Engineer considers necessary or desirable in the circumstances;
 - (vi) that all measures be taken to keep all equipment and facilities maintained and in good repair as may be necessary to ensure compliance with the terms and conditions of the Waste Discharge Permit; and
 - (v) comply with such other requirements as the Engineer deems necessary or desirable.
6. The Engineer may withhold consent, suspend, or revoke a Waste Discharge Permit, as the case may be, for a failure to comply with the terms and conditions of the Waste Discharge Permit or for any failure to comply with any other provision of this Bylaw, or any enactment applicable to the discharge of waste into a sanitary sewer connected to a Sewage Facility operated by the District.
7. A Waste Discharge Permit may not be transferred or assigned without the Engineer's consent in writing.
8. Holders of a Waste Discharge Permit permitting the discharge of waste produced on property other than residential property:

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- (a) shall retain and preserve for not less than six years after their creation, any records, books, documents, memoranda, reports, correspondence, and any and all summaries of such documents, relating to monitoring, sampling and chemical analysis required by the Engineer, under a Waste Discharge Permit; and
- (b) shall retain and preserve all records which pertain to issues which are the subject of administrative action or any other enforcement or litigation activities by the District until all enforcement activities have concluded and all periods of limitation with respect to any and all appeals have expired.

RIGHT OF ENTRY

- 9. The Engineer or Building Inspector, or any person authorized by the Engineer or Building Inspector may at any reasonable time and upon presentation of proof their identify, enter upon any property or premises in order to ascertain whether the terms of a Waste Discharge Permit, have been or are being complied with or the provisions of this Bylaw are being observed.

MONITORING POINTS

- 10. The Engineer or Building Inspector may require that a person who is discharging any waste other than Domestic Sewage into a Sewer to, at his or her expense, install one or more Monitoring Points suitable for inspection, flow monitoring, and sample collection at locations determined by the Engineer or Building Inspector, to be constructed in accordance with plans approved by the Engineer or Building Inspector and maintained in good working order by the person.
- 11. A Monitoring Point required under Section 10 of this Bylaw shall be installed in a manner so as not to be affected by any discharge of Domestic Waste from a premises, unless otherwise authorized by the Engineer or Building Inspector.
- 12. In the absence of a Monitoring Point under Section 10 of this Bylaw, the point of discharge into a Sewer or Sewage Facility shall, for the purposes of enforcing this Bylaw, be the location determined by the Engineer or Building Inspector where access can be had to the waste for the purpose of sampling.
- 13. Where a person is required to install a Monitoring Point under Section 10 of this Bylaw, and the person cannot comply with such requirement within 60 days of being notified of the requirement by the Engineer or Building Inspector the person shall, within 60 days of the notice being issued by the Engineer or Building Inspector, inform the Engineer or Building Inspector of their inability to install the Monitoring Point and the District may install or cause to be installed the Monitoring Point at the person's expense.
- 14. The owner of a premises shall ensure that all Monitoring Points, flow measuring devices and other devices specified in the Waste Discharge Permit, including water meters, are accessible for inspection by the Engineer or Building Inspector at all times.

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SAMPLING

15. The Engineer may require that a person who is discharging waste into a Sewer undertake, at that person's expense, sampling and analysis of the waste discharged.
16. All sampling and analysis required by a Engineer shall be carried out in accordance with methods and procedures specified in Standard Methods or in a manner specified by the Engineer.
17. Samples which have been collected as the result of a requirement of the Engineer shall be analyzed by an independent agency or by a laboratory authorized by the Engineer.

GENERAL

18. No person shall discharge or allow or cause to be discharged, into a Sewage Facility or a Sewer connected to a Sewage Facility operated by the District, Non-domestic Waste, which has bypassed any Works authorized and required by the Engineer or which are not otherwise in compliance with this Bylaw.
19. Any person who discharges waste or allows the discharge of waste into a Sewer or a Sewage Facility in contravention of any Waste Discharge Permit, or that is otherwise in contravention of this Bylaw, after becoming aware of the discharge, shall stop the discharge, and after reporting the discharge in accordance with the Spill Reporting Regulation of the Waste Management Act of British Columbia, shall immediately notify:
 - (a) the Engineer or Building Inspector by telephone and provide the following information:
 - (i) identification of the premises and location where the discharge occurred;
 - (ii) name of the person reporting the discharge and telephone number or numbers, where that person can be reached;
 - (iii) date, time and duration of the discharge;
 - (iv) type and concentration of all substances discharged and any known associated hazards;
 - (v) total weight or volume of the material discharged; and
 - (vi) corrective action being taken, or anticipated to be taken, to control the discharge or to prevent similar discharges.
 - (b) the owner of the premises; and
 - (c) any other person whom the person reporting knows, or reasonably should know, may be directly affected by the discharge.

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20. No person shall hinder or prevent a District Inspector or Bylaw Enforcement Officer from entering any premises or from carrying out his or her duties with respect to the administration of this Bylaw.
21. Nothing in this Bylaw shall be interpreted as relieving a person discharging waste from complying with federal, provincial and local government enactments governing the discharge of waste into sewers.

PENALTY

22. A person who violates any provision of this Bylaw, including the terms of a Waste Discharge Permit, or who suffers or permits any act or thing to be done in contravention of the Bylaw, or who refuses, or omits or neglects to fulfill, observe, carry-out or perform any duty or obligation imposed by this Bylaw shall be liable on summary conviction as provided for in the Offence Act. Each day that a violation is permitted to exist shall constitute a separate offence.

IMPLEMENTATION

23. Section 3 shall take effect in regards to Restricted Waste and a High Volume Discharge six months following the enactment of this Bylaw, and immediately in respect to all other matters.

Read a first time on the 25th day of March, 1997.

Read a second time on the 13th day of May, 1997.

Read a third time on the 13th day of May, 1997.

Adopted on the 27th day of May, 1997.


MAYOR


CLERK

SCHEDULE "A"

Prohibited Waste

Prohibited Waste means:

1. Air Contaminant Waste being any waste other than Sanitary Waste which by itself, or in combination with another substance, is capable of creating, causing or introducing an air contaminant outside any Sewer or Sewage Facility or is capable of creating, causing or introducing an air contaminant within any Sewer or Sewage Facility which would prevent safe entry by authorized personnel.
2. Biomedical Waste being any waste which is human anatomical waste, animal waste, untreated microbiological waste, waste Sharps and untreated human blood and body fluids known to contain viruses and agents listed in Risk Group 4 as defined in Laboratory Biosafety Guidelines published by Health and Welfare Canada and dated 1990.
3. Cess Pool Waste being any waste from a cesspool
4. Corrosive Waste being any waste with corrosive properties which, by itself, or in combination with any other substance may cause damage to any Sewer or Sewer Facility or which may prevent safe entry by authorized personnel.
5. Flammable or Explosive Waste being any waste, which by itself or in combination with another substance, is capable of causing or contributing to an explosion or supporting combustion in any Sewer or Sewage Facility, including: gasoline, naphtha, benzene, acetone, propane, diesel, fuel oil, crankcase oil, or Sludge resulting from the manufacture of acetylene, kerosene, or alcohol.
6. High Temperature Waste being any waste which, by itself or in combination with another substance, will create heat in amounts which will interfere with the operation and maintenance of a Sewer or Sewage Facility or with the treatment of waste in a Sewer Facility; including:
 - (a) any waste which will raise the temperature of waste entering any Sewer Facility to 40 degrees Celsius (104 degrees Fahrenheit) or more; or
 - (b) any Non-domestic Waste with a temperature of 65 degrees Celsius (150 degrees Fahrenheit) or more.

SCHEDULE "A"

Prohibited Waste (cont...)

- | | | |
|-----|-------------------|--|
| 7. | Obstructive Waste | being any waste which by itself or in combination with another substance, is capable of obstructing the flow of, or interfering with, the operation or performance of any Sewer or Sewage Facility including: earth, sand, sweepings, gardening or agricultural waste, ash, chemicals, paint, metal, glass, Sharps, rags, cloth, tar, asphalt, cement based products, plastic, wood, paper, brewery or winery waste, waste portions of animals, fish or fowl and solidified fat. |
| 8. | Other Waste | being any waste, other than Sanitary Waste, which by itself or in combination with any other substance:

(a) constitutes a significant health or safety hazard to any person;

(b) may interfere with any sewage treatment process; or

(c) may cause a discharge from a Sewage Facility to contravene requirements by or under any BC Waste Management discharge permit or any other act, law or regulation governing the quality of discharge, or may cause the discharge to result in a hazard to people, animals, property, or vegetation. |
| 9. | Pesticide Waste | being any waste containing PCB's, Pesticides, insecticides, herbicides, or fungicides. |
| 10. | Special Waste | being Special Waste as defined under the Waste Management Act of British Columbia. |

SCHEDULE "B"

Restricted Waste

Restricted Waste means:

1. Dyes and Colouring Material Waste being dyes or colouring materials which may pass through a Sewage Facility and discolour the effluent from a sewage treatment facility except were the dye is used by the District as a tracer.
2. Food Waste being any Non-domestic Waste from cooking and handling of food that at the point of discharge into a Sewer, contains particles larger than 0.5 cm in any dimension.
3. pH Waste being any Non-domestic Waste which, at the point of discharge into a Sewer, has a pH lower than 5.5 or higher than 11.0 as determined by either a Grab Sample or Composite Sample.
4. Radioactive Waste being any waste containing Radioactive Materials that at the point of discharge to the Sewer, exceeds radioactivity levels as established by the Atomic Energy Control Board of Canada.
5. Seawater Discharge Waste being any discharge of seawater over 10,000 gallons per day.
6. Specified Waste being any waste which as the point of discharge into a Sewer contains any Contaminant at a concentration in excess of the limits set out in the Tables A, B, and C attached. All concentrations are expressed as total concentration which includes all forms of the Contaminant, whether dissolved or undissolved. The concentration limits apply to both Grab Sample and Composite Samples. Contaminant definitions and methods of analysis are outlined in Standard Methods or methods specified by the Engineer.

SCHEDULE "B"

Restricted Waste (cont...)

SPECIFIED WASTE

TABLE A: Organic Contaminants (mg/L)

Benzene	0.10
Chlorinated Phenols	0.05
Ethyl Benzene	0.20
Petroleum Hydrocarbons	15.00
Phenols	1.00
Polycyclic Aromatic Hydrocarbons (PAHs)	0.05
Toluene	0.20
Xylene	0.20

SPECIFIED WASTE

TABLE B: Conventional Contaminants (mg/L)

Biochemical Oxygen Demand (BOD)	500
Chemical Oxygen Demand (COD)	1000
Oil and Grease	150*
Suspended Solids	350

Note: Total Oil and Grease includes petroleum hydrocarbons (Table A)

SCHEDULE "B"

Restricted Waste (cont...)

SPECIFIED WASTE

TABLE C: Inorganic Contaminants

Substance	Symbol	Allowable Concentration (mg/L)
Aluminum	Al	50
Arsenic	As	0.2
Boron	Bo	50
Cadmium	Cd	0.1
Chromium	Cr	5.0
Cobalt	Co	5.0
Copper	Cu	1.0
Cyanide	CN	1.0
Iron	Fe	50
Lead	Pb	0.5
Manganese	Mn	5.0
Mercury	Hg	0.05
Molybdenum	Mo	5.0
Nickel	Ni	1.0
Silver	Ag	2.0
Sulphate	SO ₄	1500
Sulphide	S	1.0
Tin	Sn	5.0
Zinc	Zn	3.0

SCHEDULE "C"

Application for Waste Discharge Permit

Application for a WASTE DISCHARGE PERMIT under the District's Sanitary Sewer Source Control Bylaw No. 2594. The Application is to be filed with the Engineer.

1. Applicant's Name: _____

Registered Address: _____

hereby applies for a WASTE DISCHARGE PERMIT to discharge Non-domestic Waste into
a

Sewer from a: _____
(Type of Business)

Located at: _____

2. Requested type of Discharge:

_____ Restricted Waste _____ High Volume Discharge

_____ Stormwater Waste, or cooling waste

_____ Uncontaminated Water in a volume greater than 2.0 cubic meters/day.

3. Requested Period of Discharge:

from: _____

to: _____

4. Summary of Wastewater Discharge Characteristics

a) Maximum duration of operation:

(hrs/day) _____ (days/week) _____ (weeks/year) _____

b) Frequency:

Maximum discharge flow rate: _____ m³/day

Average discharge flow rate: _____ m³/day

SCHEDULE "C"

Application for Waste Discharge Permit (cont...)

5. Indicate with an "X" if any of the following wastes are discharged:

Air Contaminant Waste _____ Biomedical Waste _____ Cess Pool Waste _____
 Corrosive Waste _____ Flammable/Explosive Waste _____ Obstructive Waste _____
 High Temperature Waste _____ Pesticide Waste _____ Special Waste _____
 Other Waste _____ (Description: _____)

6. For Restricted Waste, complete the following tables, if no Restricted Waste, go to question

a) For Food Waste, pH Waste, Radioactive Waste, and Seawater Discharge Waste:

TYPE	NO	YES	IF YES
Food Waste			Provide dimensions: <small>(particles larger than .5 cm in any dimension)</small>
pH Waste			Provide pH max: _____ min: _____ <small>(pH lower than 5.5, or higher than 11.0)</small>
Radioactive Waste			Radioactivity Level: _____ <small>(in excess of levels established by Atomic Energy Control Board of Canada)</small>
Seawater Discharge			Gallons per day: _____ <small>(in excess of 10,000 gallons per day)</small>

b) For Specified Waste in the table provided below, please mark "X" the appropriate box for each Contaminant to indicate whether the Contaminant is "known to be absent", "suspected to be absent", "known to be present", or "suspected to be present", in the waste water discharge. If a Contaminant is "known to be present" or "suspected to be present", estimate the expected average and maximum daily Contaminant concentrations in the spaces provided. If Wastewater discharges have been sampled and analyzed in the past, please attach examples of sampling data. No permit is required for discharges of concentrations less than that as set out in Table C of Schedule B attached to this Bylaw.

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Contaminant	Known absent	Suspected absent	Known Present	Suspected Present	Average expected concentration mg/L (ppm)	Maximum expected concentration mg/L (ppm)
ORGANIC	N/A	N/A	N/A	N/A	N/A	N/A
Benzene						
Chlorinated Phenols						
Ethyl Benzene						
Petroleum Hydrocarbons						
Phenols						
Polycyclic Aromatic Hydrocarbons						
Toluene						
Xylene						
CONVENTIONAL	N/A	N/A	N/A	N/A	N/A	N/A
Biochemical Oxygen Demand						
Chemical Oxygen Demand						
Oil and Grease						
Suspended Solids						
INORGANIC	N/A	N/A	N/A	N/A	N/A	N/A
Aluminum						
Arsenic						
Boron						
Cadmium						
Chromium						
Cobalt						

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Contaminant	Known absent	Suspected absent	Known Present	Suspected Present	Average expected concentration mg/L (ppm)	Maximum expected concentration mg/L (ppm)
Copper						
Cyanide						
Iron						
Lead						
Manganese						
Mercury						
Molybdenum						
Nickel						
Silver						
Sulphate						
Sulphide						
Tin						
Zinc						
Other						

7. Locations of connections to Sanitary Sewer (ie 5.0 m north of east PL)

Domestic _____

Non Domestic _____

Combined _____

Have the connections been dye tested? _____

8. Location of connection to Stormwater _____

9. a) Describe the source(s) of the Wastewater (ie: galvanizing line rinse tank)

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b) Description of treatment processes prior to discharge to sanitary Sewer (ie: oil/water separators, grease traps, filters, electrolytic precipitators, reverse osmosis units, ion exchange units, neutralization facilities, other pretreatment Works):

c) Describe technical inability to meet the discharge requirements:

10. Attach a site plan showing the layout of the building and discharge points

11. Declaration:

I, _____, declare that the information given on this application form is correct to the best of my knowledge.	
_____	_____
(Date)	(Signature of Applicant)
_____	_____
(Title)	(Name of Signatory)
_____	_____
(Phone)	(Fax)

APPROVED BY:

(Municipal Engineer)

(Date)

SEE TERMS AND CONDITIONS, IF ANY, ATTACHED.